



Job Order Contract Construction Task Catalog®

CSI Divisions 01-50 2025

County of Monterey
Roads and Bridges



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About the CTC:

- ☑ This Construction Task Catalog® (CTC) was developed and customized by The Gordian Group, Inc. specifically for **County of Monterey**, priced locally using current labor, material and equipment costs, and published in May 2025.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of Monterey**. Use of this CTC and other proprietary information and software for any other purpose, or for any other entity, is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



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The Unit Prices Include:

LABOR COSTS:

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

EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

The Adjustment Factors Include:

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

BUSINESS COSTS:

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

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

PROJECT RELATED COSTS:

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

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

PRICE VARIATIONS:

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

SUMMARY:

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

Unit Price	X	Quantity	X	Adjustment Factor

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

General Rules:

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

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

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

DEMOLITION:

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

WORKING HEIGHT:

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

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FIELD ENGINEERING:

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

ASSEMBLIES:

- ☑ Assembly Tasks take precedence over individual component Tasks.

RESTRICTED AND CONFINED SPACES:

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

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

Or Equals:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

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

BULK FACTORS FOR DEMOLITION:

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

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

CONVERSIONS:

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

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

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

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

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

Using The Construction Task Catalog®

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

TRADEMARKS

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

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 General Requirements

01 10 Summary ⁽⁰¹⁾

01 11 Summary Of Work ^(01 10)

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

Note: For specification publishing. Review specifications for requirements.

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

Note: For specification publishing. Review specifications for requirements.

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

01 22 16 Unit Price Payment ^(01 22)

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

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

01 22 16 00-0002 EA Negotiated Travel Costs 1.00

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

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

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

01 22 16 00-0004 EA Reimbursable Fees 1.00

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

01 22 20 Wage Rates ^(01 22)

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

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

01 22 20 00-0002 HR Asbestos Removal Worker 96.21

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

For Foreperson, Add 4.81

For Apprentice, Deduct -19.24

01 22 20 00-0003 HR Brick Layer 113.33

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

For Foreperson, Add 5.67

For Apprentice, Deduct -22.67

01 22 20 00-0004 HR Carpenter 134.38

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

For Foreperson, Add 6.72

For Apprentice, Deduct -26.88

01 22 20 00-0005 HR Carpenter, Bridge Builder 150.32

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

For Foreperson, Add 7.52

For Apprentice, Deduct -30.06

01 22 20 00-0006 HR Cement Mason 100.88

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

For Foreperson, Add 5.04

For Apprentice, Deduct -20.18

01 22 20 00-0007 HR Electrician, (Inside Wireman) 128.89

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

For Foreperson, Add 6.44

For Apprentice, Deduct -25.78

01 22 20 00-0008 HR Electrician, Cable Splicer 141.33

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

For Foreperson, Add 7.07

For Apprentice, Deduct -28.27

01 22 20 00-0009 HR Electrical Groundman 141.33

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

For Foreperson, Add 7.07

For Apprentice, Deduct -28.27

01 22 20 00-0010 HR High Voltage Electrician, (Utility Lineman) 140.16

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

For Foreperson, Add 7.01

For Apprentice, Deduct -28.03

01 22 20 00-0011 HR Communication And System Technician 121.53

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

For Foreperson, Add 7.01

For Apprentice, Deduct -24.31

01 22 20 00-0012 HR Equipment Operator, Crane (Group 1-A) 135.25

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

01	General Requirements
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0013 HR Equipment Operator, Crane (Group 2-A).....	132.68	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.63	
01 22 20 00-0014 HR Equipment Operator, Crane (Group 3-A).....	130.15	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0015 HR Equipment Operator, Medium (Group 3).....	129.58	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.48	
For Apprentice, Deduct	-25.92	
01 22 20 00-0016 HR Equipment Operator, Medium (Group 4).....	127.56	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0017 HR Equipment Operator, Medium (Group 5).....	125.71	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0018 HR Equipment Operator, Light (Group 6).....	123.79	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.19	
For Apprentice, Deduct	-24.76	
01 22 20 00-0019 HR Equipment Operator, Light (Group 7).....	122.13	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Equipment Operator, Light (Group 8).....	120.46	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0021 HR Laborer.....	91.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Landscape Maintenance Laborer.....	91.77	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0023 HR Millwright.....	130.78	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.54	
For Apprentice, Deduct	-26.16	
01 22 20 00-0024 HR Mold Removal Worker.....	95.85	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.79	
For Apprentice, Deduct	-19.17	
01 22 20 00-0025 HR Painter, Ordinary.....	109.82	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.49	
For Apprentice, Deduct	-21.96	
01 22 20 00-0026 HR Painter, Structural Steel.....	114.13	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.71	
For Apprentice, Deduct	-22.83	
01 22 20 00-0027 HR Pile Drivers.....	144.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.22	
For Apprentice, Deduct	-28.86	
01 22 20 00-0028 HR Plasterer.....	121.15	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.06	
For Apprentice, Deduct	-24.23	
01 22 20 00-0029 HR Plumber.....	128.33	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.42	
For Apprentice, Deduct	-25.67	
01 22 20 00-0030 HR Powderman.....	96.23	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.81	
For Apprentice, Deduct	-19.25	
01 22 20 00-0031 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	109.97	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.50	
For Apprentice, Deduct	-21.99	
01 22 20 00-0032 HR Sheet Metal Worker.....	137.58	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.88	
For Apprentice, Deduct	-27.52	
01 22 20 00-0033 HR Stone Mason.....	113.33	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.67	
For Apprentice, Deduct	-22.67	
01 22 20 00-0034 HR Iron Worker (Structural).....	113.33	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.67	
For Apprentice, Deduct	-22.67	
01 22 20 00-0035 HR Tile Layer.....	108.45	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.42	
For Apprentice, Deduct	-21.69	
01 22 20 00-0036 HR Terrazzo Worker.....	120.03	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.00	
For Apprentice, Deduct	-24.01	
01 22 20 00-0037 HR Truck Driver, Light (Group 1).....	99.04	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.95	
For Apprentice, Deduct	-19.81	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0038 HR Truck Driver, Medium (Group 2).....	99.49	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0039 HR Truck Driver, Heavy (Group 3).....	99.93	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.00	
For Apprentice, Deduct	-19.99	
01 22 20 00-0040 HR Truck Driver, Heavy (Group 4).....	100.46	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0041 HR D1 Certified Welder	131.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0042 Rates For Services (01 22 20)		
01 22 20 00-0043 HR Watch/Guard Person, Unarmed.....	32.36	
01 22 20 00-0044 HR Watch/Guard Person, Armed.....	45.82	
01 22 20 00-0045 HR Senior Surveyor (Party Chief).....	135.19	
01 22 20 00-0046 HR Surveyor (Instrument person).....	121.97	
01 22 20 00-0047 HR Surveyor (Rod Person).....	119.83	
01 22 20 00-0048 HR On-Site Certified Materials Testing Technician.....	97.28	
01 22 20 00-0049 HR Certified Industrial Hygienist	131.08	
01 22 20 00-0050 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.70	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0051 EA Security Badge, Processing Fee.....	92.99	
01 22 20 00-0052 HR Biologist.....	132.00	
01 22 20 00-0053 HR Ecologist.....	145.00	
01 22 20 00-0054 HR Fire Watch Laborer.....	91.77	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0055 Rates For Project Management Services (01 22 20)		
Note: Includes subcontracted rates with burden and mark-up		
01 22 20 00-0056 HR Project Manager	160.00	
01 22 20 00-0057 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services. Includes subcontracted rates with burden and mark-up		
01 22 20 00-0058 HR Principal Architect.....	243.20	
01 22 20 00-0059 HR Senior Architect	179.20	
01 22 20 00-0060 HR Architect.....	140.80	
01 22 20 00-0061 HR Principal Engineer.....	209.92	
01 22 20 00-0062 HR Senior Engineer.....	174.08	
01 22 20 00-0063 HR Engineer.....	136.96	
01 22 20 00-0064 HR Draft Person.....	71.68	
01 22 20 00-0065 Rates For Traffic Control (01 22 20)		
01 22 20 00-0066 HR Flagperson For Traffic Control.....	91.77	
01 22 20 00-0067 DAY Pilot Vehicle With Driver	1,145.81	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0068 HR Highway Patrol Officer With Car	50.82	
For Each Mile, Add	0.70	
01 22 20 00-0069 HR Highway Patrol Officer With Motorcycle.....	48.32	
For Each Mile, Add	0.70	
01 22 20 00-0070 HR Highway Patrol Sergeant Officer With Car.....	59.98	
For Each Mile, Add	0.70	
01 22 20 00-0071 HR Highway Patrol Sergeant Officer With Motorcycle	57.48	
For Each Mile, Add	0.70	
01 22 20 00-0072 Mobilize Equipment (01 22 20)		
01 22 20 00-0073 HR Escort Vehicle With Driver	103.50	
01 22 20 00-0074 HR Transport Vehicle With Driver.....	139.96	
01 22 23 Equipment Usage (01 22)		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. Excludes mobilization unless otherwise stated. See CSI section 01 22 20 00-0065 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001 Aerial Equipment (01 22 23)		
01 22 23 00-0002 Man Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003 Telescoping Boom Man Lifts With Platform (01 22 23 00-0002)		

01	General Requirements
01 20	Price and Payment Procedures
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0004 Engine Powered, Telescoping Boom Man Lifts With Platform (01 22 23 00-0003) Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005 DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For Half Day Usage, Deduct	463.48 104.28 -144.84	
01 22 23 00-0006 WK 40' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add	1,166.18 262.39	
01 22 23 00-0007 MO 40' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	2,616.42 588.69 -104.66	
01 22 23 00-0008 DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For Half Day Usage, Deduct	880.27 153.06 -212.58	
01 22 23 00-0009 WK 60' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add	1,622.18 364.99	
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	3,550.86 798.94 -142.03	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For Half Day Usage, Deduct	1,323.16 297.71 -413.49	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add	3,206.99 721.57	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	6,727.95 1,513.79 -269.12	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For Half Day Usage, Deduct	1,883.83 423.86 -588.70	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add	4,536.13 1,020.63	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	11,302.96 2,543.17 -452.12	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For Half Day Usage, Deduct	2,294.98 516.37 -717.18	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add	5,853.32 1,317.00	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Man Lift With Platform For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	13,306.39 2,993.94 -532.26	
01 22 23 00-0020 Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0002)		
01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022 DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For Half Day Usage, Deduct	414.48 -129.53	
01 22 23 00-0023 WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,039.97	
01 22 23 00-0024 MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For >6 Months (>26 Weeks), Deduct	2,501.95 -100.08	
01 22 23 00-0025 DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For Half Day Usage, Deduct	527.52 -164.85	
01 22 23 00-0026 WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,153.01	
01 22 23 00-0027 MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For >6 Months (>26 Weeks), Deduct	2,862.17 -114.49	
01 22 23 00-0028 DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For Half Day Usage, Deduct	678.24 -211.95	
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,567.49	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For >6 Months (>26 Weeks), Deduct	3,504.24 -140.17	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For Half Day Usage, Deduct	1,183.15 -369.73	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,788.32	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For >6 Months (>26 Weeks), Deduct	6,780.89 -271.24	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For Half Day Usage, Deduct	2,298.48 -718.28	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,425.92	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform For >6 Months (>26 Weeks), Deduct	13,263.36 -530.53	
01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: For use on paved surfaces.		
01 22 23 00-0038 DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform..... For Half Day Usage, Deduct	414.48 -129.53	
01 22 23 00-0039 WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform.....	1,039.97	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	2,501.95	-100.08	
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For Half Day Usage, Deduct</i>	414.48	-129.53	
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,039.97		
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	2,501.95	-100.08	
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For Half Day Usage, Deduct</i>	512.45	-160.14	
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,107.79		
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	2,750.64	-110.03	
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For Half Day Usage, Deduct</i>	512.45	-160.14	
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,107.79		
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform <i>For >6 Months (>26 Weeks), Deduct</i>	2,750.64	-110.03	
01 22 23 00-0050	Platform Lifts (01 22 23 00-0001) Note: Excludes operator, delivery, set-up, and removal.			
01 22 23 00-0051	Electric, Scissor Platform Lifts (01 22 23 00-0050) Note: For use on paved surfaces.			
01 22 23 00-0052	DAY 17' Electric, Scissor Platform Lift <i>For Half Day Usage, Deduct</i>	191.65	-59.89	
01 22 23 00-0053	WK 17' Electric, Scissor Platform Lift	383.31		
01 22 23 00-0054	MO 17' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks), Deduct</i>	784.04	-31.36	
01 22 23 00-0055	DAY 20' Electric, Scissor Platform Lift <i>For Half Day Usage, Deduct</i>	209.08	-65.34	
01 22 23 00-0056	WK 20' Electric, Scissor Platform Lift	418.15		
01 22 23 00-0057	MO 20' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks), Deduct</i>	836.30	-33.45	
01 22 23 00-0058	DAY 25' Electric, Scissor Platform Lift <i>For Half Day Usage, Deduct</i>	270.06	-84.39	
01 22 23 00-0059	WK 25' Electric, Scissor Platform Lift	540.11		
01 22 23 00-0060	MO 25' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks), Deduct</i>	1,158.63	-46.35	
01 22 23 00-0061	DAY 30' Electric, Scissor Platform Lift <i>For Half Day Usage, Deduct</i>	348.46	-108.89	
01 22 23 00-0062	WK 30' Electric, Scissor Platform Lift	688.21		
01 22 23 00-0063	MO 30' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks), Deduct</i>	1,524.51	-60.98	
01 22 23 00-0064	DAY 33' Electric, Scissor Platform Lift <i>For Half Day Usage, Deduct</i>	374.59	-117.06	
01 22 23 00-0065	WK 33' Electric, Scissor Platform Lift	731.77		
01 22 23 00-0066	MO 33' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks), Deduct</i>	1,655.18	-66.21	
01 22 23 00-0067	DAY 40' Electric, Scissor Platform Lift <i>For Half Day Usage, Deduct</i>	487.84	-152.45	
01 22 23 00-0068	WK 40' Electric, Scissor Platform Lift	1,210.90		
01 22 23 00-0069	MO 40' Electric, Scissor Platform Lift <i>For >6 Months (>26 Weeks), Deduct</i>	3,371.35	-134.85	
01 22 23 00-0070	Engine Powered, Scissor Platform Lifts (01 22 23 00-0050) Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.			
01 22 23 00-0071	DAY 25' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	475.90	95.18	
	<i>For Half Day Usage, Deduct</i>		-148.72	
01 22 23 00-0072	WK 25' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	930.64	186.13	
01 22 23 00-0073	MO 25' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	2,273.73	454.75	
	<i>For >6 Months (>26 Weeks), Deduct</i>		-90.95	
01 22 23 00-0074	DAY 33' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	486.47	97.29	
	<i>For Half Day Usage, Deduct</i>		-152.02	
01 22 23 00-0075	WK 33' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	1,110.43	222.09	
01 22 23 00-0076	MO 33' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	2,432.36	486.47	
	<i>For >6 Months (>26 Weeks), Deduct</i>		-97.29	
01 22 23 00-0077	DAY 40' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	539.35	107.87	
	<i>For Half Day Usage, Deduct</i>		-168.55	
01 22 23 00-0078	WK 40' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	1,237.33	247.47	
01 22 23 00-0079	MO 40' Engine Powered, Scissor Platform Lift..... <i>For Four-Wheel Drive, Add</i>	2,749.63	549.93	
	<i>For >6 Months (>26 Weeks), Deduct</i>		-109.99	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For Half Day Usage, Deduct	571.08 114.22 -178.46	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add MO 43' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	1,332.51 266.50 3,278.40 655.68 -131.14	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For Half Day Usage, Deduct	1,068.13 213.63 -333.79	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add MO 50' Engine Powered, Scissor Platform Lift For Four-Wheel Drive, Add For >6 Months (>26 Weeks), Deduct	2,347.76 469.55 5,774.22 1,154.84 -230.97	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001) Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	156.80 -49.00	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift MO 24', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	444.26 897.23 -35.89	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	217.78 -68.06	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift MO 30', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	461.68 1,567.98 -62.72	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	365.86 -114.33	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift MO 36', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	888.52 2,595.88 -103.84	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift For Half Day Usage, Deduct	392.00 -122.50	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift MO 40', Push-Type, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	975.63 2,935.61 -117.42	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift For Half Day Usage, Deduct	209.06 -65.33	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift MO 15', Self-Propelled, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	418.13 836.26 -33.45	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift For Half Day Usage, Deduct	209.06 -65.33	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift MO 20', Self-Propelled, Electric Single Man Personnel Lift For >6 Months (>26 Weeks), Deduct	418.13 869.36 -34.77	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001) Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' To 33' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,410.42 -799.48 -590.66	
01 22 23 00-0107 WK 29' To 33' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct MO 29' To 33' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	5,830.21 -3,997.39 21,987.38 -17,322.02 -186.61	
01 22 23 00-0109 DAY 38' To 41' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,488.18 -799.48 -614.96	
01 22 23 00-0110 WK 38' To 41' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct MO 38' To 41' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	6,080.14 -3,997.39 22,653.86 -17,322.02 -213.27	
01 22 23 00-0112 DAY 45' To 48' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	1,688.12 -799.48 -677.44	
01 22 23 00-0113 WK 45' To 48' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct MO 45' To 48' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	6,441.15 -3,997.39 23,431.42 -17,322.02 -244.38	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,132.44 -799.48 -816.29	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator For Equipment Without Operator, Deduct	7,885.19 -3,997.39	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
01 22 23 00-0117	MO 62' Bucket Truck With Full-Time Operator.....	27,319.22		
	For Equipment Without Operator, Deduct	-17,322.02		
	For >6 Months (>26 Weeks), Deduct	-399.89		
01 22 23 00-0118	DAY 85' Bucket Truck With Full-Time Operator	2,354.60		
	For Equipment Without Operator, Deduct	-799.48		
	For Half Day Usage, Deduct	-885.72		
01 22 23 00-0119	WK 85' Bucket Truck With Full-Time Operator	8,662.75		
	For Equipment Without Operator, Deduct	-3,997.39		
01 22 23 00-0120	MO 85' Bucket Truck With Full-Time Operator	30,096.22		
	For Equipment Without Operator, Deduct	-17,322.02		
	For >6 Months (>26 Weeks), Deduct	-510.97		
01 22 23 00-0121	Day 105' Bucket Truck With Full-Time Operator	2,465.68		
	For Equipment Without Operator, Deduct	-799.48		
	For Half Day Usage, Deduct	-920.43		
01 22 23 00-0122	WK 105' Bucket Truck With Full-Time Operator	8,995.99		
	For Equipment Without Operator, Deduct	-3,997.39		
01 22 23 00-0123	MO 105' Bucket Truck With Full-Time Operator	30,362.81		
	For Equipment Without Operator, Deduct	-17,322.02		
	For >6 Months (>26 Weeks), Deduct	-521.63		
01 22 23 00-0124 Air Equipment (01 22 23)				
01 22 23 00-0125 Air Compressors (01 22 23 00-0124)				
Note: Includes delivery, set-up, and removal. Excludes operator.				
01 22 23 00-0126	DAY 100 CFM Diesel Powered Portable Air Compressor.....	172.85		
	For Half Day Usage, Deduct	-54.02		
01 22 23 00-0127	WK 100 CFM Diesel Powered Portable Air Compressor.....	518.56		
01 22 23 00-0128	MO 100 CFM Diesel Powered Portable Air Compressor.....	1,440.44		
	For >6 Months (>26 Weeks), Deduct	-57.62		
01 22 23 00-0129	DAY 130 CFM Diesel Powered Portable Air Compressor.....	207.42		
	For Half Day Usage, Deduct	-64.82		
01 22 23 00-0130	WK 130 CFM Diesel Powered Portable Air Compressor.....	610.75		
01 22 23 00-0131	MO 130 CFM Diesel Powered Portable Air Compressor.....	1,728.52		
	For >6 Months (>26 Weeks), Deduct	-69.14		
01 22 23 00-0132	DAY 185 CFM Diesel Powered Portable Air Compressor.....	276.56		
	For Half Day Usage, Deduct	-86.43		
01 22 23 00-0133	WK 185 CFM Diesel Powered Portable Air Compressor.....	622.27		
01 22 23 00-0134	MO 185 CFM Diesel Powered Portable Air Compressor.....	1,371.30		
	For >6 Months (>26 Weeks), Deduct	-54.85		
01 22 23 00-0135	DAY 375 CFM Diesel Powered Portable Air Compressor.....	391.80		
	For Half Day Usage, Deduct	-122.44		
01 22 23 00-0136	WK 375 CFM Diesel Powered Portable Air Compressor.....	991.02		
01 22 23 00-0137	MO 375 CFM Diesel Powered Portable Air Compressor.....	2,362.32		
	For >6 Months (>26 Weeks), Deduct	-94.49		
01 22 23 00-0138	DAY 600 CFM Diesel Powered Portable Air Compressor.....	871.18		
	For Half Day Usage, Deduct	-272.24		
01 22 23 00-0139	WK 600 CFM Diesel Powered Portable Air Compressor.....	2,097.28		
01 22 23 00-0140	MO 600 CFM Diesel Powered Portable Air Compressor.....	5,227.06		
	For >6 Months (>26 Weeks), Deduct	-209.08		
01 22 23 00-0141	DAY 750 CFM Diesel Powered Portable Air Compressor.....	1,048.64		
	For Half Day Usage, Deduct	-327.70		
01 22 23 00-0142	WK 750 CFM Diesel Powered Portable Air Compressor.....	2,581.26		
01 22 23 00-0143	MO 750 CFM Diesel Powered Portable Air Compressor.....	6,337.92		
	For >6 Months (>26 Weeks), Deduct	-253.52		
01 22 23 00-0144	DAY 825 CFM Diesel Powered Portable Air Compressor.....	1,048.64		
	For Half Day Usage, Deduct	-327.70		
01 22 23 00-0145	WK 825 CFM Diesel Powered Portable Air Compressor.....	2,581.26		
01 22 23 00-0146	MO 825 CFM Diesel Powered Portable Air Compressor.....	6,337.92		
	For >6 Months (>26 Weeks), Deduct	-253.52		
01 22 23 00-0147	DAY 1,300 CFM Diesel Powered Portable Air Compressor.....	1,221.49		
	For Half Day Usage, Deduct	-381.72		
01 22 23 00-0148	WK 1,300 CFM Diesel Powered Portable Air Compressor.....	2,737.98		
01 22 23 00-0149	MO 1,300 CFM Diesel Powered Portable Air Compressor.....	7,301.29		
	For >6 Months (>26 Weeks), Deduct	-292.05		
01 22 23 00-0150	DAY 1,600 CFM Diesel Powered Portable Air Compressor.....	1,521.10		
	For Half Day Usage, Deduct	-475.34		
01 22 23 00-0151	WK 1,600 CFM Diesel Powered Portable Air Compressor.....	3,422.48		
01 22 23 00-0152	MO 1,600 CFM Diesel Powered Portable Air Compressor.....	9,126.61		
	For >6 Months (>26 Weeks), Deduct	-365.06		
01 22 23 00-0153 Portable Negative Air Machines (01 22 23 00-0124)				
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.				
01 22 23 00-0154	DAY Up To 2,000 CFM, Portable Negative Air Machine	109.47		
	For Half Day Usage, Deduct	-34.21		
01 22 23 00-0155	WK Up To 2,000 CFM, Portable Negative Air Machine	449.63		
01 22 23 00-0156	MO Up To 2,000 CFM, Portable Negative Air Machine	1,358.66		
	For >6 Months (>26 Weeks), Deduct	-54.35		
01 22 23 00-0157	EA First Stage Pre-Filter For Portable Negative Air Machines	13.83		
01 22 23 00-0158	EA Second Stage Pre-Filter For Portable Negative Air Machines	28.31		
01 22 23 00-0159	EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	134.99		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0160	LF		Flexible Exhaust Duct For Portable Negative Air Machines.....	2.49	
01 22 23 00-0161			Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0162			Pavers And Rollers (01 22 23 00-0161) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0163			Pavers (01 22 23 00-0162)		
01 22 23 00-0164	DAY		10' Wide Paving Machine With Full-Time Operator	4,592.19	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-1,629.43	
01 22 23 00-0165	WK		10' Wide Paving Machine With Full-Time Operator	19,405.34	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0166	MO		10' Wide Paving Machine With Full-Time Operator	73,254.70	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-2,031.79	
01 22 23 00-0167			Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0162)		
01 22 23 00-0168	DAY		10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,399.00	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-631.55	
01 22 23 00-0169	WK		10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,279.11	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0170	MO		10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	25,435.34	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-119.01	
01 22 23 00-0171	DAY		15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,538.86	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-675.26	
01 22 23 00-0172	WK		15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	7,319.20	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0173	MO		15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator.....	27,005.64	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-181.82	
01 22 23 00-0174	DAY		30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	1,545.22	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-677.25	
01 22 23 00-0175	WK		30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	6,905.96	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0176	MO		30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator.....	27,310.80	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-194.03	
01 22 23 00-0177			Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0162)		
01 22 23 00-0178	DAY		5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,456.22	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-649.44	
01 22 23 00-0179	WK		5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,346.50	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0180	MO		5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,823.15	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-134.52	
01 22 23 00-0181	DAY		8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,723.23	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-732.88	
01 22 23 00-0182	WK		8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,886.89	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0183	MO		8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	27,526.96	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-202.68	
01 22 23 00-0184	DAY		10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,786.80	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-752.74	
01 22 23 00-0185	WK		10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	7,287.41	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0186	MO		10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	28,645.88	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-247.43	
01 22 23 00-0187			Towed, Padfoot Rollers (01 22 23 00-0162)		
01 22 23 00-0188	DAY		48" Wide, 40" Diameter, Towed Padfoot Roller	120.79	
			For Half Day Usage, Deduct	-37.75	
01 22 23 00-0189	WK		48" Wide, 40" Diameter, Towed Padfoot Roller	349.66	
01 22 23 00-0190	MO		48" Wide, 40" Diameter, Towed Padfoot Roller	1,029.92	
			For >6 Months (>26 Weeks), Deduct	-41.20	
01 22 23 00-0191	DAY		60" Wide, 60" Diameter, Towed Padfoot Roller	152.58	
			For Half Day Usage, Deduct	-47.68	
01 22 23 00-0192	WK		60" Wide, 60" Diameter, Towed Padfoot Roller	425.95	
01 22 23 00-0193	MO		60" Wide, 60" Diameter, Towed Padfoot Roller	1,811.89	
			For >6 Months (>26 Weeks), Deduct	-72.48	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 22 23 00-0194 Static Rollers (01 22 23 00-0162)

01 22 23 00-0195	DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,488.00
	For Equipment Without Operator, Deduct	-1,036.62
	For Half Day Usage, Deduct	-659.37
01 22 23 00-0196	WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,619.88
	For Equipment Without Operator, Deduct	-5,183.08
01 22 23 00-0197	MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator	26,719.55
	For Equipment Without Operator, Deduct	-22,460.03
	For >6 Months (>26 Weeks), Deduct	-170.38
01 22 23 00-0198	DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,627.87
	For Equipment Without Operator, Deduct	-1,036.62
	For Half Day Usage, Deduct	-703.08
01 22 23 00-0199	WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	7,001.32
	For Equipment Without Operator, Deduct	-5,183.08
01 22 23 00-0200	MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	27,774.90
	For Equipment Without Operator, Deduct	-22,460.03
	For >6 Months (>26 Weeks), Deduct	-212.59

01 22 23 00-0201 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0162)

01 22 23 00-0202	DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,284.56
	For Equipment Without Operator, Deduct	-1,036.62
	For Half Day Usage, Deduct	-595.79
01 22 23 00-0203	WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,907.84
	For Equipment Without Operator, Deduct	-5,183.08
01 22 23 00-0204	MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	24,367.28
	For Equipment Without Operator, Deduct	-22,460.03
	For >6 Months (>26 Weeks), Deduct	-76.29
01 22 23 00-0205	DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,379.92
	For Equipment Without Operator, Deduct	-1,036.62
	For Half Day Usage, Deduct	-625.59
01 22 23 00-0206	WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,193.92
	For Equipment Without Operator, Deduct	-5,183.08
01 22 23 00-0207	MO 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,130.18
	For Equipment Without Operator, Deduct	-22,460.03
	For >6 Months (>26 Weeks), Deduct	-106.81
01 22 23 00-0208	DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,443.50
	For Equipment Without Operator, Deduct	-1,036.62
	For Half Day Usage, Deduct	-645.46
01 22 23 00-0209	WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,384.65
	For Equipment Without Operator, Deduct	-5,183.08
01 22 23 00-0210	MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,638.78
	For Equipment Without Operator, Deduct	-22,460.03
	For >6 Months (>26 Weeks), Deduct	-127.15
01 22 23 00-0211	DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,526.15
	For Equipment Without Operator, Deduct	-1,036.62
	For Half Day Usage, Deduct	-671.29
01 22 23 00-0212	WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,626.23
	For Equipment Without Operator, Deduct	-5,183.08
01 22 23 00-0213	MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,268.17
	For Equipment Without Operator, Deduct	-22,460.03
	For >6 Months (>26 Weeks), Deduct	-152.33
01 22 23 00-0214	DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,691.44
	For Equipment Without Operator, Deduct	-1,036.62
	For Half Day Usage, Deduct	-722.94
01 22 23 00-0215	WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	7,109.40
	For Equipment Without Operator, Deduct	-5,183.08
01 22 23 00-0216	MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	27,546.03
	For Equipment Without Operator, Deduct	-22,460.03
	For >6 Months (>26 Weeks), Deduct	-203.44

01 22 23 00-0217 Steel Roadway Plates (01 22 23 00-0161)

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

01 22 23 00-0218	EA Placement And Removal Of Steel Roadway Plates.....	59.66
01 22 23 00-0219	DAY 1" x 4' x 8' Steel Plate	44.88
01 22 23 00-0220	WK 1" x 4' x 8' Steel Plate	105.98
01 22 23 00-0221	MO 1" x 4' x 8' Steel Plate	139.47
	For >6 Months (>26 Weeks), Deduct	-5.58
01 22 23 00-0222	DAY 1" x 4' x 10' Steel Plate	59.85
01 22 23 00-0223	WK 1" x 4' x 10' Steel Plate	134.65
01 22 23 00-0224	MO 1" x 4' x 10' Steel Plate	164.58
	For >6 Months (>26 Weeks), Deduct	-6.58
01 22 23 00-0225	DAY 1" x 5' x 10' Steel Plate	62.34
01 22 23 00-0226	WK 1" x 5' x 10' Steel Plate	140.89
01 22 23 00-0227	MO 1" x 5' x 10' Steel Plate	374.04
	For >6 Months (>26 Weeks), Deduct	-14.96
01 22 23 00-0228	DAY 1" x 6' x 8' Steel Plate	39.90
01 22 23 00-0229	WK 1" x 6' x 8' Steel Plate	89.77

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0230	MO	1" x 6' x 8' Steel Plate	239.39	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-9.58	
01 22 23 00-0231	DAY	1" x 6' x 10' Steel Plate	74.81	
01 22 23 00-0232	WK	1" x 6' x 10' Steel Plate	98.50	
01 22 23 00-0233	MO	1" x 6' x 10' Steel Plate	263.07	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-10.52	
01 22 23 00-0234	DAY	1" x 6' x 12' Steel Plate	104.73	
01 22 23 00-0235	WK	1" x 6' x 12' Steel Plate	134.03	
01 22 23 00-0236	MO	1" x 6' x 12' Steel Plate	362.82	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-14.51	
01 22 23 00-0237	DAY	1" x 8' x 10' Steel Plate	66.08	
01 22 23 00-0238	WK	1" x 8' x 10' Steel Plate	148.37	
01 22 23 00-0239	MO	1" x 8' x 10' Steel Plate	395.24	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-15.81	
01 22 23 00-0240	DAY	1" x 8' x 12' Steel Plate	119.69	
01 22 23 00-0241	WK	1" x 8' x 12' Steel Plate	148.37	
01 22 23 00-0242	MO	1" x 8' x 12' Steel Plate	718.16	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-28.73	
01 22 23 00-0243	DAY	1" x 8' x 16' Steel Plate	159.59	
01 22 23 00-0244	WK	1" x 8' x 16' Steel Plate	359.08	
01 22 23 00-0245	MO	1" x 8' x 16' Steel Plate	957.54	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-38.30	
01 22 23 00-0246	DAY	1-1/4" x 8' x 10' Steel Plate	79.30	
01 22 23 00-0247	WK	1-1/4" x 8' x 10' Steel Plate	178.04	
01 22 23 00-0248	MO	1-1/4" x 8' x 10' Steel Plate	474.28	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-18.97	
01 22 23 00-0249	DAY	1-1/2" x 8' x 15' Steel Plate	183.53	
01 22 23 00-0250	WK	1-1/2" x 8' x 15' Steel Plate	412.94	
01 22 23 00-0251	MO	1-1/2" x 8' x 15' Steel Plate	1,101.17	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-44.05	
01 22 23 00-0252	LF	Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.62	1.14
01 22 23 00-0253	EA	Removal And Resetting Of Steel Roadway Plate	33.15	
01 22 23 00-0254 Street Sweepers (01 22 23 00-0161)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
01 22 23 00-0255	DAY	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	1,210.65	
		<i>For Equipment Without Operator, Deduct</i>	-990.30	
		<i>For Half Day Usage, Deduct</i>	-564.01	
01 22 23 00-0256	WK	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	5,824.65	
		<i>For Equipment Without Operator, Deduct</i>	-4,951.50	
01 22 23 00-0257	MO	8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	24,567.37	
		<i>For Equipment Without Operator, Deduct</i>	-21,456.52	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-124.43	
01 22 23 00-0258	DAY	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	2,569.05	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-990.30	
		<i>For Half Day Usage, Deduct</i>	-988.51	
01 22 23 00-0259	WK	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	11,275.21	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-4,951.50	
01 22 23 00-0260	MO	Self-Propelled Street Sweeper With Hopper And Full-Time Operator	44,024.31	
		Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
		<i>For Equipment Without Operator, Deduct</i>	-21,456.52	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-902.71	
01 22 23 00-0261 Earthmoving Equipment (01 22 23)				
01 22 23 00-0262 Skid-Steer Loaders (01 22 23 00-0261)				
Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.				
01 22 23 00-0263	DAY	700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,382.98	
		<i>For Equipment Without Operator, Deduct</i>	-990.30	
		<i>For Half Day Usage, Deduct</i>	-617.86	
01 22 23 00-0264	WK	700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	5,981.66	
		<i>For Equipment Without Operator, Deduct</i>	-4,951.50	
01 22 23 00-0265	MO	700 Lb. Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	23,937.45	
		<i>For Equipment Without Operator, Deduct</i>	-21,456.52	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-99.24	
01 22 23 00-0266	DAY	1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,486.49	
		<i>For Equipment Without Operator, Deduct</i>	-990.30	
		<i>For Half Day Usage, Deduct</i>	-650.21	
01 22 23 00-0267	WK	1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	6,168.96	
		<i>For Equipment Without Operator, Deduct</i>	-4,951.50	
01 22 23 00-0268	MO	1,500 To 1,700 Lb. Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	24,348.20	
		<i>For Equipment Without Operator, Deduct</i>	-21,456.52	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-115.67	
01 22 23 00-0269	DAY	2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,516.06	
		<i>For Equipment Without Operator, Deduct</i>	-990.30	
		<i>For Half Day Usage, Deduct</i>	-659.45	
01 22 23 00-0270	WK	2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	6,438.42	
		<i>For Equipment Without Operator, Deduct</i>	-4,951.50	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0271	MO		2,000 To 2,400 Lb. Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	25,062.90	
			For Equipment Without Operator, Deduct	-21,456.52	
			For >6 Months (>26 Weeks), Deduct	-144.26	
01 22 23 00-0272	DAY		2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	1,631.07	
			For Equipment Without Operator, Deduct	-990.30	
			For Half Day Usage, Deduct	-695.39	
01 22 23 00-0273	WK		2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	6,816.30	
			For Equipment Without Operator, Deduct	-4,951.50	
01 22 23 00-0274	MO		2,500 To 2,700 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	26,311.58	
			For Equipment Without Operator, Deduct	-21,456.52	
			For >6 Months (>26 Weeks), Deduct	-194.20	
01 22 23 00-0275	DAY		3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	1,828.23	
			For Equipment Without Operator, Deduct	-990.30	
			For Half Day Usage, Deduct	-757.00	
01 22 23 00-0276	WK		3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	7,563.87	
			For Equipment Without Operator, Deduct	-4,951.50	
01 22 23 00-0277	MO		3,200 To 3,500 Lb. Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator.....	28,151.74	
			For Equipment Without Operator, Deduct	-21,456.52	
			For >6 Months (>26 Weeks), Deduct	-267.61	
01 22 23 00-0278	DAY		Hydraulic Hammer Attachment For Skid-Steer Loaders	328.60	
			For Half Day Usage, Deduct	-102.69	
01 22 23 00-0279	WK		Hydraulic Hammer Attachment For Skid-Steer Loaders	1,092.60	
01 22 23 00-0280	MO		Hydraulic Hammer Attachment For Skid-Steer Loaders	2,908.11	
			For >6 Months (>26 Weeks), Deduct	-116.32	
01 22 23 00-0281	DAY		Forklift Attachment For Skid-Steer Loaders	70.65	
			For Half Day Usage, Deduct	-22.08	
01 22 23 00-0282	WK		Forklift Attachment For Skid-Steer Loaders	188.94	
01 22 23 00-0283	MO		Forklift Attachment For Skid-Steer Loaders	533.98	
			For >6 Months (>26 Weeks), Deduct	-21.36	
01 22 23 00-0284	DAY		Backhoe Attachment For Skid-Steer Loaders	156.08	
			For Half Day Usage, Deduct	-48.78	
01 22 23 00-0285	WK		Backhoe Attachment For Skid-Steer Loaders	374.60	
01 22 23 00-0286	MO		Backhoe Attachment For Skid-Steer Loaders	931.58	
			For >6 Months (>26 Weeks), Deduct	-37.26	
01 22 23 00-0287	DAY		Broom Attachment For Skid-Steer Loaders	154.44	
			For Half Day Usage, Deduct	-48.26	
01 22 23 00-0288	WK		Broom Attachment For Skid-Steer Loaders	418.96	
01 22 23 00-0289	MO		Broom Attachment For Skid-Steer Loaders	1,109.02	
			For >6 Months (>26 Weeks), Deduct	-44.36	
01 22 23 00-0290	DAY		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	134.73	
			For Half Day Usage, Deduct	-42.10	
01 22 23 00-0291	WK		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	371.32	
01 22 23 00-0292	MO		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	1,013.73	
			For >6 Months (>26 Weeks), Deduct	-40.55	
01 22 23 00-0293	DAY		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	37.13	
			For Half Day Usage, Deduct	-11.60	
01 22 23 00-0294	WK		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	97.15	
01 22 23 00-0295	MO		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	285.73	
			For >6 Months (>26 Weeks), Deduct	-11.43	
01 22 23 00-0296	DAY		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	50.00	
			For Half Day Usage, Deduct	-15.63	
01 22 23 00-0297	WK		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	124.29	
01 22 23 00-0298	MO		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	371.47	
			For >6 Months (>26 Weeks), Deduct	-14.86	
01 22 23 00-0299	DAY		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	72.85	
			For Half Day Usage, Deduct	-22.77	
01 22 23 00-0300	WK		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	221.46	
01 22 23 00-0301	MO		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	657.20	
			For >6 Months (>26 Weeks), Deduct	-26.29	
01 22 23 00-0302	DAY		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	14.79	
			For Half Day Usage, Deduct	-4.62	
01 22 23 00-0303	WK		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	34.50	
01 22 23 00-0304	MO		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	92.01	
			For >6 Months (>26 Weeks), Deduct	-3.68	
01 22 23 00-0305			Bulldozers (01 22 23 00-0261) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0306	DAY		70 HP, D3 Bulldozer With Full-Time Operator	1,442.65	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-645.19	
01 22 23 00-0307	WK		70 HP, D3 Bulldozer With Full-Time Operator	6,784.23	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0308	MO		70 HP, D3 Bulldozer With Full-Time Operator	27,209.85	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-189.99	
01 22 23 00-0309	DAY		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,634.18	
			For Equipment Without Operator, Deduct	-1,036.62	
			For Half Day Usage, Deduct	-705.05	
01 22 23 00-0310	WK		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	7,557.99	
			For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0311	MO		90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	29,584.76	
			For Equipment Without Operator, Deduct	-22,460.03	
			For >6 Months (>26 Weeks), Deduct	-284.99	

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



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
01 22 23 00-0312	DAY 140 HP, D6 Bulldozer With Full-Time Operator	2,178.11	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-875.03	
01 22 23 00-0313	WK 140 HP, D6 Bulldozer With Full-Time Operator	9,733.71	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0314	MO 140 HP, D6 Bulldozer With Full-Time Operator	36,096.61	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-545.46	
01 22 23 00-0315	DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,660.75	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-1,025.85	
01 22 23 00-0316	WK 200 HP, D7 Bulldozer With Full-Time Operator	11,671.95	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0317	MO 200 HP, D7 Bulldozer With Full-Time Operator	41,918.97	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-778.36	
01 22 23 00-0318	DAY 335 HP, D8 Bulldozer With Full-Time Operator	3,235.33	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-1,205.41	
01 22 23 00-0319	WK 335 HP, D8 Bulldozer With Full-Time Operator	13,970.25	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0320	MO 335 HP, D8 Bulldozer With Full-Time Operator	48,813.87	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-1,054.15	
01 22 23 00-0321	DAY 460 HP, D9 Bulldozer With Full-Time Operator	3,557.09	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-1,305.96	
01 22 23 00-0322	WK 460 HP, D9 Bulldozer With Full-Time Operator	15,249.63	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0323	MO 460 HP, D9 Bulldozer With Full-Time Operator	52,644.37	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-1,207.37	
01 22 23 00-0324	Motor Scraper (01 22 23 00-0261)		
	Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0325	DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	2,379.09	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-937.83	
01 22 23 00-0326	WK 11 CY Motor Scraper-Hauler With Full-Time Operator	10,552.96	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0327	MO 11 CY Motor Scraper-Hauler With Full-Time Operator	38,551.28	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-643.65	
01 22 23 00-0328	DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,921.60	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-1,107.37	
01 22 23 00-0329	WK 18 CY Motor Scraper-Hauler With Full-Time Operator	12,722.98	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0330	MO 18 CY Motor Scraper-Hauler With Full-Time Operator	45,079.73	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-904.79	
01 22 23 00-0331	DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	3,445.71	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-1,271.15	
01 22 23 00-0332	WK 24 CY Motor Scraper-Hauler With Full-Time Operator	14,810.24	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0333	MO 24 CY Motor Scraper-Hauler With Full-Time Operator	51,332.33	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-1,154.89	
01 22 23 00-0334	Hydraulic Excavators (01 22 23 00-0261)		
	Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0335	DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,398.39	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-631.36	
01 22 23 00-0336	WK 3/8 CY Hydraulic Excavator With Full-Time Operator	6,462.68	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0337	MO 3/8 CY Hydraulic Excavator With Full-Time Operator	26,747.71	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-171.51	
01 22 23 00-0338	DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,500.23	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-663.19	
01 22 23 00-0339	WK 1/2 CY Hydraulic Excavator With Full-Time Operator	6,911.55	
	For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0340	MO 1/2 CY Hydraulic Excavator With Full-Time Operator	28,543.18	
	For Equipment Without Operator, Deduct	-22,460.03	
	For >6 Months (>26 Weeks), Deduct	-243.33	
01 22 23 00-0341	DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,532.38	
	For Equipment Without Operator, Deduct	-1,036.62	
	For Half Day Usage, Deduct	-673.24	
01 22 23 00-0342	WK 5/8 CY Hydraulic Excavator With Full-Time Operator	7,079.04	
	For Equipment Without Operator, Deduct	-5,183.08	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0343	MO	5/8 CY Hydraulic Excavator With Full-Time Operator		28,837.95	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-255.12	
01 22 23 00-0344	DAY	3/4 CY Hydraulic Excavator With Full-Time Operator	.....	1,565.88	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-683.70	
01 22 23 00-0345	WK	3/4 CY Hydraulic Excavator With Full-Time Operator	.....	7,233.13	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0346	MO	3/4 CY Hydraulic Excavator With Full-Time Operator	.....	29,132.73	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-266.91	
01 22 23 00-0347	DAY	7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	.....	1,592.68	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-692.08	
01 22 23 00-0348	WK	7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	.....	7,393.92	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0349	MO	7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	.....	29,427.51	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-278.70	
01 22 23 00-0350	DAY	1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	.....	1,954.45	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-805.13	
01 22 23 00-0351	WK	1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	.....	8,834.31	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0352	MO	1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	.....	33,413.71	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-438.15	
01 22 23 00-0353	DAY	1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	.....	2,008.05	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-821.88	
01 22 23 00-0354	WK	1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	.....	9,068.79	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0355	MO	1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	.....	34,117.16	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-466.29	
01 22 23 00-0356	DAY	1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	2,108.54	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-853.29	
01 22 23 00-0357	WK	1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	9,470.76	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0358	MO	1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	35,323.07	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-514.52	
01 22 23 00-0359	DAY	2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	.....	2,222.43	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-888.88	
01 22 23 00-0360	WK	2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	.....	9,919.63	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0361	MO	2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	.....	36,662.97	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-568.12	
01 22 23 00-0362	DAY	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	2,255.93	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-899.34	
01 22 23 00-0363	WK	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	10,053.62	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0364	MO	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	37,064.94	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-584.20	
01 22 23 00-0365	DAY	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	2,577.50	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-999.84	
01 22 23 00-0366	WK	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	11,346.62	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0367	MO	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	40,950.65	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-739.62	
01 22 23 00-0368	DAY	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	3,039.77	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-1,144.29	
01 22 23 00-0369	WK	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	13,182.28	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0370	MO	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	46,444.24	
		For Equipment Without Operator, Deduct	.....	-22,460.03	
		For >6 Months (>26 Weeks), Deduct	.....	-959.37	
01 22 23 00-0371	DAY	6 To 11 CY Hydraulic Excavator With Full-Time Operator	.....	3,609.23	
		For Equipment Without Operator, Deduct	.....	-1,036.62	
		For Half Day Usage, Deduct	.....	-1,322.25	
01 22 23 00-0372	WK	6 To 11 CY Hydraulic Excavator With Full-Time Operator	.....	15,460.11	
		For Equipment Without Operator, Deduct	.....	-5,183.08	
01 22 23 00-0373	MO	6 To 11 CY Hydraulic Excavator With Full-Time Operator	.....	53,277.73	
		For Equipment Without Operator, Deduct		-22,460.03	
		For >6 Months (>26 Weeks), Deduct		-1,232.71	

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01 22 23 00-0374 DAY Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	2,135.34	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-861.66	
01 22 23 00-0375 WK Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	9,564.55	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0376 MO Up To 50' Depth, 50,000 Lb. Operating Weight, Long-Arm Hydraulic Excavator With Full-Time Operator.....	35,591.05	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-525.24	
01 22 23 00-0377 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	93.79	
For Half Day Usage, Deduct	-29.31	
01 22 23 00-0378 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	361.77	
01 22 23 00-0379 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,071.92	
For >6 Months (>26 Weeks), Deduct	-42.88	
01 22 23 00-0380 DAY 1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	415.37	
For Half Day Usage, Deduct	-129.80	
01 22 23 00-0381 WK 1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	1,098.72	
01 22 23 00-0382 MO 1,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,075.07	
For >6 Months (>26 Weeks), Deduct	-123.00	
01 22 23 00-0383 DAY 1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	643.15	
For Half Day Usage, Deduct	-200.98	
01 22 23 00-0384 WK 1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	1,641.38	
01 22 23 00-0385 MO 1,500 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,267.58	
For >6 Months (>26 Weeks), Deduct	-170.70	
01 22 23 00-0386 DAY 3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	897.73	
For Half Day Usage, Deduct	-280.54	
01 22 23 00-0387 WK 3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators	2,418.52	
01 22 23 00-0388 MO 3,000 FT-Lb. Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,779.89	
For >6 Months (>26 Weeks), Deduct	-271.20	
01 22 23 00-0389 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	187.59	
For Half Day Usage, Deduct	-58.62	
01 22 23 00-0390 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	750.34	
01 22 23 00-0391 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,251.03	
For >6 Months (>26 Weeks), Deduct	-90.04	
01 22 23 00-0392 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	267.98	
For Half Day Usage, Deduct	-83.74	
01 22 23 00-0393 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,071.92	
01 22 23 00-0394 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,215.76	
For >6 Months (>26 Weeks), Deduct	-128.63	
01 22 23 00-0395 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	294.78	
For Half Day Usage, Deduct	-92.12	
01 22 23 00-0396 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,165.71	
01 22 23 00-0397 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,483.74	
For >6 Months (>26 Weeks), Deduct	-139.35	
01 22 23 00-0398 Mini-Excavators (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0399 DAY 2,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,318.00	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-606.24	
01 22 23 00-0400 WK 2,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	5,980.32	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0401 MO 2,000 Lb. Capacity, Capacity, Mini-Excavator With Full-Time Operator	24,215.30	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-70.21	
01 22 23 00-0402 DAY 3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,324.70	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-608.34	
01 22 23 00-0403 WK 3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,000.42	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0404 MO 3,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	24,637.37	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-87.09	
01 22 23 00-0405 DAY 6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,358.20	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-618.80	
01 22 23 00-0406 WK 6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,094.21	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0407 MO 6,000 Lb. Capacity, Mini-Excavator With Full-Time Operator	24,697.66	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-89.51	
01 22 23 00-0408 DAY 7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,371.60	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-622.99	
01 22 23 00-0409 WK 7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,141.11	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0410 MO 7,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	24,724.46	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-90.58	
01 22 23 00-0411 DAY 9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	1,451.99	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-648.11	
01 22 23 00-0412 WK 9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator	6,208.10	
For Equipment Without Operator, Deduct	-5,183.08	



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01 22 23 00-0413	MO 9,500 Lb. Capacity, Mini-Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	25,501.60 -22,460.03 -121.66	
01 22 23 00-0414	DAY 11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,458.69 -1,036.62 -650.21	
01 22 23 00-0415	WK 11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,543.08 -5,183.08	
01 22 23 00-0416	MO 11,000 Lb. Capacity, Mini-Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	25,535.10 -22,460.03 -123.00	
01 22 23 00-0417 Telescopic Hydraulic Excavators (Gradall) (01 22 23 00-0261)			
Note: Includes full-time operator. Excludes delivery, set-up, and removal.			
01 22 23 00-0418	DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,526.03 -1,036.62 -1,608.75	
01 22 23 00-0419	WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,384.30 -5,183.08	
01 22 23 00-0420	MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	51,731.36 -22,460.03 -1,170.85	
01 22 23 00-0421 Road Graders (01 22 23 00-0261)			
Note: Includes full-time operator. Excludes delivery, set-up, and removal.			
01 22 23 00-0422	DAY 50 To 60 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	2,415.87 -1,036.62 -949.33	
01 22 23 00-0423	WK 50 To 60 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,769.13 -5,183.08	
01 22 23 00-0424	MO 50 To 60 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	32,114.78 -22,460.03 -386.19	
01 22 23 00-0425	DAY 80 To 100 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,096.30 -1,036.62 -1,161.96	
01 22 23 00-0426	WK 80 To 100 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,277.11 -5,183.08	
01 22 23 00-0427	MO 80 To 100 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	36,712.28 -22,460.03 -570.09	
01 22 23 00-0428	DAY 130 To 140 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,603.55 -1,036.62 -1,320.48	
01 22 23 00-0429	WK 130 To 140 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,779.57 -5,183.08	
01 22 23 00-0430	MO 130 To 140 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	42,252.27 -22,460.03 -791.69	
01 22 23 00-0431	DAY 170 To 185 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,374.40 -1,036.62 -1,561.37	
01 22 23 00-0432	WK 170 To 185 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,534.22 -5,183.08	
01 22 23 00-0433	MO 170 To 185 HP Road Grader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	69,188.98 -22,459.99 -1,869.16	
01 22 23 00-0434 Loader-Backhoes With Standard Bucket (01 22 23 00-0261)			
Note: Includes full-time operator. Excludes delivery, set-up, and removal.			
01 22 23 00-0435	DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,485.15 -1,036.62 -658.48	
01 22 23 00-0436	WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,248.34 -5,183.08	
01 22 23 00-0437	MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	24,967.00 -22,460.03 -100.28	
01 22 23 00-0438	DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,533.21 -1,036.62 -673.49	
01 22 23 00-0439	WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,416.54 -5,183.08	
01 22 23 00-0440	MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	25,992.22 -22,460.03 -141.29	
01 22 23 00-0441	DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,607.30 -1,036.62 -696.65	
01 22 23 00-0442	WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,600.76 -5,183.08	

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01 22 23 00-0443 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	26,520.85	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-162.43	
01 22 23 00-0444 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,937.69	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-799.89	
01 22 23 00-0445 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	7,585.93	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0446 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	29,340.19	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-275.21	
01 22 23 00-0447 Heavy-Duty Construction Loaders (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0448 DAY 2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	1,524.93	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-670.91	
01 22 23 00-0449 WK 2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	7,113.79	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0450 MO 2-1/2 CY, 119 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	28,244.65	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-231.38	
01 22 23 00-0451 DAY 3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	1,930.61	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-797.68	
01 22 23 00-0452 WK 3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	7,557.03	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0453 MO 3 CY, 135 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	28,470.03	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-240.40	
01 22 23 00-0454 DAY 3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	2,020.76	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-825.85	
01 22 23 00-0455 WK 3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	7,797.43	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0456 MO 3-1/2 CY, 198 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	29,071.03	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-264.44	
01 22 23 00-0457 DAY 4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	2,268.67	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-903.33	
01 22 23 00-0458 WK 4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	8,451.02	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0459 MO 4-1/2 CY, 215 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	30,723.78	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-330.55	
01 22 23 00-0460 DAY 7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	2,907.23	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-1,102.88	
01 22 23 00-0461 WK 7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	12,650.50	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0462 MO 7-1/3 CY, 330 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	44,847.28	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-895.49	
01 22 23 00-0463 DAY 13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	7,114.16	
For Equipment Without Operator, Deduct	-1,036.62	
For Half Day Usage, Deduct	-2,417.54	
01 22 23 00-0464 WK 13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	24,918.21	
For Equipment Without Operator, Deduct	-5,183.08	
01 22 23 00-0465 MO 13-1/2 CY, 690 HP, Heavy-Duty Construction Loader With Full-Time Operator.....	76,243.60	
For Equipment Without Operator, Deduct	-22,460.03	
For >6 Months (>26 Weeks), Deduct	-2,151.34	
01 22 23 00-0466 Tractors (01 22 23 00-0261)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0467 DAY 20 To 29 HP Tractor.....	501.41	
For Half Day Usage, Deduct	-156.69	
01 22 23 00-0468 WK 20 To 29 HP Tractor.....	1,207.10	
01 22 23 00-0469 MO 20 To 29 HP Tractor.....	3,259.16	
For >6 Months (>26 Weeks), Deduct	-130.37	
01 22 23 00-0470 DAY 30 To 35 HP Tractor.....	519.54	
For Half Day Usage, Deduct	-162.36	
01 22 23 00-0471 WK 30 To 35 HP Tractor.....	1,337.53	
01 22 23 00-0472 MO 30 To 35 HP Tractor.....	3,703.09	
For >6 Months (>26 Weeks), Deduct	-148.12	
01 22 23 00-0473 DAY 40 To 45 HP Tractor.....	530.59	
For Half Day Usage, Deduct	-165.81	
01 22 23 00-0474 WK 40 To 45 HP Tractor.....	1,425.97	
01 22 23 00-0475 MO 40 To 45 HP Tractor.....	3,913.12	
For >6 Months (>26 Weeks), Deduct	-156.52	
01 22 23 00-0476 DAY 80 To 89 HP Tractor.....	683.14	
For Half Day Usage, Deduct	-213.48	
01 22 23 00-0477 WK 80 To 89 HP Tractor.....	1,937.32	



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01 22 23 00-0478	MO		80 To 89 HP Tractor	5,547.12	
			For >6 Months (>26 Weeks), Deduct	-221.88	
01 22 23 00-0479	DAY		60" Rotary Mower Attachment For Tractors.....	214.45	
			For Half Day Usage, Deduct	-67.02	
01 22 23 00-0480	WK		60" Rotary Mower Attachment For Tractors.....	663.24	
01 22 23 00-0481	DAY		84" Rotary Mower Attachment For Tractors.....	234.34	
			For Half Day Usage, Deduct	-73.23	
01 22 23 00-0482	WK		84" Rotary Mower Attachment For Tractors.....	718.51	
01 22 23 00-0483	DAY		Under Deck Rotary Mower Attachment For Tractors.....	41.39	
			For Half Day Usage, Deduct	-12.93	
01 22 23 00-0484	WK		Under Deck Rotary Mower Attachment For Tractors.....	165.55	
01 22 23 00-0485			Shoring (01 22 23 00-0261) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0486			Aluminum Hydraulic Shoring (01 22 23 00-0485) Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0487	WK		2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	116.90	
			Note: Up to 88" spread width.		
01 22 23 00-0488	MO		2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring	344.80	
			Note: Up to 88" spread width.		
			For >6 Months (>26 Weeks), Deduct	-13.79	
01 22 23 00-0489	WK		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	156.82	
			Note: Up to 88" spread width.		
01 22 23 00-0490	MO		Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring	462.54	
			Note: Up to 88" spread width.		
			For >6 Months (>26 Weeks), Deduct	-18.50	
01 22 23 00-0491	WK		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	290.78	
			Note: Up to 88" spread width.		
01 22 23 00-0492	MO		Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring	857.79	
			Note: Up to 88" spread width.		
			For >6 Months (>26 Weeks), Deduct	-34.31	
01 22 23 00-0493	EA		Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	28.92	
01 22 23 00-0494	EA		Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	46.28	
01 22 23 00-0495	EA		Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	77.12	
01 22 23 00-0496			Trench Boxes/Trench Shields (01 22 23 00-0261) Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0497	WK		4' x 6' Trench Box With Up To 48" Spreaders.....	260.32	
01 22 23 00-0498	MO		4' x 6' Trench Box With Up To 48" Spreaders.....	780.97	
			For >6 Months (>26 Weeks), Deduct	-31.24	
01 22 23 00-0499	WK		6' x 6' Trench Box With Up To 48" Spreaders.....	293.91	
01 22 23 00-0500	MO		6' x 6' Trench Box With Up To 48" Spreaders.....	881.74	
			For >6 Months (>26 Weeks), Deduct	-35.27	
01 22 23 00-0501	WK		8' x 6' Trench Box With Up To 48" Spreaders.....	310.71	
01 22 23 00-0502	MO		8' x 6' Trench Box With Up To 48" Spreaders.....	932.12	
			For >6 Months (>26 Weeks), Deduct	-37.28	
01 22 23 00-0503	WK		4' x 8' Trench Box With Up To 48" Spreaders.....	285.52	
01 22 23 00-0504	MO		4' x 8' Trench Box With Up To 48" Spreaders.....	856.54	
			For >6 Months (>26 Weeks), Deduct	-34.26	
01 22 23 00-0505	WK		6' x 8' Trench Box With Up To 48" Spreaders.....	335.90	
01 22 23 00-0506	MO		6' x 8' Trench Box With Up To 48" Spreaders.....	1,007.70	
			For >6 Months (>26 Weeks), Deduct	-40.31	
01 22 23 00-0507	WK		8' x 8' Trench Box With Up To 48" Spreaders.....	377.89	
01 22 23 00-0508	MO		8' x 8' Trench Box With Up To 48" Spreaders.....	1,133.66	
			For >6 Months (>26 Weeks), Deduct	-45.35	
01 22 23 00-0509	WK		4' x 10' Trench Box With Up To 48" Spreaders.....	319.10	
01 22 23 00-0510	MO		4' x 10' Trench Box With Up To 48" Spreaders.....	957.32	
			For >6 Months (>26 Weeks), Deduct	-38.29	
01 22 23 00-0511	WK		6' x 10' Trench Box With Up To 48" Spreaders.....	377.89	
01 22 23 00-0512	MO		6' x 10' Trench Box With Up To 48" Spreaders.....	1,133.66	
			For >6 Months (>26 Weeks), Deduct	-45.35	
01 22 23 00-0513	WK		8' x 10' Trench Box With Up To 48" Spreaders.....	461.86	
01 22 23 00-0514	MO		8' x 10' Trench Box With Up To 48" Spreaders.....	1,377.19	
			For >6 Months (>26 Weeks), Deduct	-55.09	
01 22 23 00-0515	WK		4' x 12' Trench Box With Up To 48" Spreaders.....	377.89	
01 22 23 00-0516	MO		4' x 12' Trench Box With Up To 48" Spreaders.....	1,133.66	
			For >6 Months (>26 Weeks), Deduct	-45.35	
01 22 23 00-0517	WK		6' x 12' Trench Box With Up To 48" Spreaders.....	461.86	
01 22 23 00-0518	MO		6' x 12' Trench Box With Up To 48" Spreaders.....	1,385.59	
			For >6 Months (>26 Weeks), Deduct	-55.42	
01 22 23 00-0519	WK		8' x 12' Trench Box With Up To 48" Spreaders.....	587.82	
01 22 23 00-0520	MO		8' x 12' Trench Box With Up To 48" Spreaders.....	1,763.48	
			For >6 Months (>26 Weeks), Deduct	-70.54	
01 22 23 00-0521	WK		4' x 14' Trench Box With Up To 48" Spreaders.....	419.88	
01 22 23 00-0522	MO		4' x 14' Trench Box With Up To 48" Spreaders.....	1,259.62	
			For >6 Months (>26 Weeks), Deduct	-50.38	
01 22 23 00-0523	WK		6' x 14' Trench Box With Up To 48" Spreaders.....	545.84	
01 22 23 00-0524	MO		6' x 14' Trench Box With Up To 48" Spreaders.....	1,637.51	
			For >6 Months (>26 Weeks), Deduct	-65.50	
01 22 23 00-0525	WK		8' x 14' Trench Box With Up To 48" Spreaders.....	671.80	

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01 22 23 00-0526 MO 8' x 14' Trench Box With Up To 48" Spreaders.....	2,015.40	
For >6 Months (>26 Weeks), Deduct	-80.62	
01 22 23 00-0527 WK 4' x 16' Trench Box With Up To 48" Spreaders.....	461.86	
01 22 23 00-0528 MO 4' x 16' Trench Box With Up To 48" Spreaders.....	1,385.59	
For >6 Months (>26 Weeks), Deduct	-55.42	
01 22 23 00-0529 WK 6' x 16' Trench Box With Up To 48" Spreaders.....	629.81	
01 22 23 00-0530 MO 6' x 16' Trench Box With Up To 48" Spreaders.....	1,889.44	
For >6 Months (>26 Weeks), Deduct	-75.58	
01 22 23 00-0531 WK 8' x 16' Trench Box With Up To 48" Spreaders.....	755.78	
01 22 23 00-0532 MO 8' x 16' Trench Box With Up To 48" Spreaders.....	2,267.32	
For >6 Months (>26 Weeks), Deduct	-90.69	
01 22 23 00-0533 WK 4' x 20' Trench Box With Up To 48" Spreaders.....	545.84	
01 22 23 00-0534 MO 4' x 20' Trench Box With Up To 48" Spreaders.....	1,637.51	
For >6 Months (>26 Weeks), Deduct	-65.50	
01 22 23 00-0535 WK 6' x 20' Trench Box With Up To 48" Spreaders.....	755.78	
01 22 23 00-0536 MO 6' x 20' Trench Box With Up To 48" Spreaders.....	2,267.32	
For >6 Months (>26 Weeks), Deduct	-90.69	
01 22 23 00-0537 WK 8' x 20' Trench Box With Up To 48" Spreaders.....	881.74	
01 22 23 00-0538 MO 8' x 20' Trench Box With Up To 48" Spreaders.....	2,645.21	
For >6 Months (>26 Weeks), Deduct	-105.81	
01 22 23 00-0539 WK 4' x 24' Trench Box With Up To 48" Spreaders.....	755.78	
01 22 23 00-0540 MO 4' x 24' Trench Box With Up To 48" Spreaders.....	2,267.32	
For >6 Months (>26 Weeks), Deduct	-90.69	
01 22 23 00-0541 WK 6' x 24' Trench Box With Up To 48" Spreaders.....	923.72	
01 22 23 00-0542 MO 6' x 24' Trench Box With Up To 48" Spreaders.....	2,771.18	
For >6 Months (>26 Weeks), Deduct	-110.85	
01 22 23 00-0543 WK 8' x 24' Trench Box With Up To 48" Spreaders.....	1,007.70	
01 22 23 00-0544 MO 8' x 24' Trench Box With Up To 48" Spreaders.....	3,023.10	
For >6 Months (>26 Weeks), Deduct	-120.92	
01 22 23 00-0545 WK For Spreaders >48" To 84", Add.....	25.19	
01 22 23 00-0546 MO For Spreaders >48" To 84", Add.....	75.58	
For >6 Months (>26 Weeks), Deduct	-3.02	
01 22 23 00-0547 WK For Spreaders >84" To 120", Add.....	151.16	
01 22 23 00-0548 MO For Spreaders >84" To 120", Add.....	453.46	
For >6 Months (>26 Weeks), Deduct	-18.14	
01 22 23 00-0549 WK For Spreaders >120", Add.....	319.10	
01 22 23 00-0550 MO For Spreaders >120", Add.....	957.32	
For >6 Months (>26 Weeks), Deduct	-38.29	
01 22 23 00-0551 WK 8' x 4' Manhole Box.....	396.78	
01 22 23 00-0552 MO 8' x 4' Manhole Box.....	1,190.35	
For >6 Months (>26 Weeks), Deduct	-47.61	
01 22 23 00-0553 WK 8' x 8' Manhole Box.....	566.83	
01 22 23 00-0554 MO 8' x 8' Manhole Box.....	1,700.49	
For >6 Months (>26 Weeks), Deduct	-68.02	
01 22 23 00-0555 Trenchers (01 22 23 00-0261)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0556 DAY 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,344.03	
For Equipment Without Operator, Deduct	-990.30	
For Half Day Usage, Deduct	-605.69	
01 22 23 00-0557 WK 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	6,156.39	
For Equipment Without Operator, Deduct	-4,951.50	
01 22 23 00-0558 MO 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	24,772.72	
For Equipment Without Operator, Deduct	-21,456.52	
For >6 Months (>26 Weeks), Deduct	-132.65	
01 22 23 00-0559 DAY 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	1,940.94	
For Equipment Without Operator, Deduct	-990.30	
For Half Day Usage, Deduct	-792.23	
01 22 23 00-0560 WK 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	8,168.21	
For Equipment Without Operator, Deduct	-4,951.50	
01 22 23 00-0561 MO 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator	30,299.72	
For Equipment Without Operator, Deduct	-21,456.52	
For >6 Months (>26 Weeks), Deduct	-353.73	
01 22 23 00-0562 Portable Sediment Tank (01 22 23 00-0261)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0563 WK Portable Sediment Tank	206.94	
01 22 23 00-0564 MO Portable Sediment Tank	607.02	
For >6 Months (>26 Weeks), Deduct	-24.28	
01 22 23 00-0565 Heavy Equipment (Ground Protection) Mats (01 22 23 00-0261)		
Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0261 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0566 DAY 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	28.76	
For Half Day Usage, Deduct	-8.99	
01 22 23 00-0567 WK 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	68.47	
01 22 23 00-0568 MO 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	143.78	
For >6 Months (>26 Weeks), Deduct	-5.75	
01 22 23 00-0569 DAY 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	30.19	
For Half Day Usage, Deduct	-9.43	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
01 22 23 00-0570	WK 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	71.89		
01 22 23 00-0571	MO 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	150.97		
	For >6 Months (>26 Weeks), Deduct	-6.04		
01 22 23 00-0572	Day 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	24.44		
	For Half Day Usage, Deduct	-7.64		
01 22 23 00-0573	WK 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	57.51		
01 22 23 00-0574	MO 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	122.21		
	For >6 Months (>26 Weeks), Deduct	-4.89		
01 22 23 00-0575	Day 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	27.32		
	For Half Day Usage, Deduct	-8.54		
01 22 23 00-0576	WK 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	64.70		
01 22 23 00-0577	MO 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	136.59		
	For >6 Months (>26 Weeks), Deduct	-5.46		
01 22 23 00-0578	Day 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	30.19		
	For Half Day Usage, Deduct	-9.43		
01 22 23 00-0579	WK 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	71.89		
01 22 23 00-0580	MO 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	150.97		
	For >6 Months (>26 Weeks), Deduct	-6.04		
01 22 23 00-0581	Day 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	33.07		
	For Half Day Usage, Deduct	-10.33		
01 22 23 00-0582	WK 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	78.74		
01 22 23 00-0583	MO 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	165.35		
	For >6 Months (>26 Weeks), Deduct	-6.61		
01 22 23 00-0584	Day 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	25.88		
	For Half Day Usage, Deduct	-8.09		
01 22 23 00-0585	WK 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	71.89		
01 22 23 00-0586	MO 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	129.40		
	For >6 Months (>26 Weeks), Deduct	-5.18		
01 22 23 00-0587	Day 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	30.19		
	For Half Day Usage, Deduct	-9.43		
01 22 23 00-0588	WK 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	71.89		
01 22 23 00-0589	MO 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	150.97		
	For >6 Months (>26 Weeks), Deduct	-6.04		
01 22 23 00-0590	Day 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	35.94		
	For Half Day Usage, Deduct	-11.23		
01 22 23 00-0591	WK 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	79.08		
01 22 23 00-0592	MO 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	179.72		
	For >6 Months (>26 Weeks), Deduct	-7.19		
01 22 23 00-0593	Day 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	38.82		
	For Half Day Usage, Deduct	-12.13		
01 22 23 00-0594	WK 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	92.43		
01 22 23 00-0595	MO 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	194.10		
	For >6 Months (>26 Weeks), Deduct	-7.76		
01 22 23 00-0596	Day 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	41.70		
	For Half Day Usage, Deduct	-13.03		
01 22 23 00-0597	WK 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	99.28		
01 22 23 00-0598	MO 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	208.48		
	For >6 Months (>26 Weeks), Deduct	-8.34		
01 22 23 00-0599	Day 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	43.13		
	For Half Day Usage, Deduct	-13.48		
01 22 23 00-0600	WK 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	102.70		
01 22 23 00-0601	MO 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	215.67		
	For >6 Months (>26 Weeks), Deduct	-8.63		
01 22 23 00-0602	Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	13.83		
	For Half Day Usage, Deduct	-4.32		
01 22 23 00-0603	WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	34.58		
01 22 23 00-0604	MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	103.74		
	For >6 Months (>26 Weeks), Deduct	-4.15		
01 22 23 00-0605	Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.53		
	For Half Day Usage, Deduct	-5.17		
01 22 23 00-0606	WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	41.34		
01 22 23 00-0607	MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	124.01		
	For >6 Months (>26 Weeks), Deduct	-4.96		
01 22 23 00-0608	Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	18.88		
	For Half Day Usage, Deduct	-5.90		
01 22 23 00-0609	WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	47.21		
01 22 23 00-0610	MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	141.62		
	For >6 Months (>26 Weeks), Deduct	-5.66		
01 22 23 00-0611	Day 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.13		
	For Half Day Usage, Deduct	-6.29		
01 22 23 00-0612	WK 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	50.32		
01 22 23 00-0613	MO 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	150.97		
	For >6 Months (>26 Weeks), Deduct	-6.04		
01 22 23 00-0614	Day 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.00		
	For Half Day Usage, Deduct	-7.19		
01 22 23 00-0615	WK 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	57.51		
01 22 23 00-0616	MO 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	172.54		
	For >6 Months (>26 Weeks), Deduct	-6.90		
01 22 23 00-0617	Day 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	26.44		
	For Half Day Usage, Deduct	-8.26		
01 22 23 00-0618	WK 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	66.09		
01 22 23 00-0619	MO 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	198.27		
	For >6 Months (>26 Weeks), Deduct	-7.93		

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01 22 23 00-0620 Day 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.34	
For Half Day Usage, Deduct	-6.36	
01 22 23 00-0621 WK 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	50.85	
01 22 23 00-0622 MO 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	152.55	
For >6 Months (>26 Weeks), Deduct	-6.10	
01 22 23 00-0623 Day 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	27.54	
For Half Day Usage, Deduct	-8.61	
01 22 23 00-0624 WK 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	68.85	
01 22 23 00-0625 MO 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	206.54	
For >6 Months (>26 Weeks), Deduct	-8.26	
01 22 23 00-0626 Day 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.81	
For Half Day Usage, Deduct	-7.44	
01 22 23 00-0627 WK 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	59.52	
01 22 23 00-0628 MO 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	178.57	
For >6 Months (>26 Weeks), Deduct	-7.14	
01 22 23 00-0629 Day 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	39.71	
For Half Day Usage, Deduct	-12.41	
01 22 23 00-0630 WK 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	99.28	
01 22 23 00-0631 MO 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	297.83	
For >6 Months (>26 Weeks), Deduct	-11.91	
01 22 23 00-0632 Day 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	42.33	
For Half Day Usage, Deduct	-13.23	
01 22 23 00-0633 WK 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	105.82	
01 22 23 00-0634 MO 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	317.47	
For >6 Months (>26 Weeks), Deduct	-12.70	
01 22 23 00-0635 Electrical Equipment (01 22 23)		
01 22 23 00-0636 Tripod Mounted Floodlights (01 22 23 00-0635)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0637 DAY 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	65.05	
For Half Day Usage, Deduct	-20.33	
01 22 23 00-0638 WK 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	153.90	
01 22 23 00-0639 MO 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	325.25	
For >6 Months (>26 Weeks), Deduct	-13.01	
01 22 23 00-0640 DAY 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	65.05	
For Half Day Usage, Deduct	-20.33	
01 22 23 00-0641 WK 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	190.39	
01 22 23 00-0642 MO 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	563.24	
For >6 Months (>26 Weeks), Deduct	-22.53	
01 22 23 00-0643 DAY 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	72.98	
For Half Day Usage, Deduct	-22.81	
01 22 23 00-0644 WK 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	198.32	
01 22 23 00-0645 MO 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	483.91	
For >6 Months (>26 Weeks), Deduct	-19.36	
01 22 23 00-0646 Trailer Mounted Floodlights (01 22 23 00-0635)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0647 DAY 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	182.46	
For Half Day Usage, Deduct	-57.02	
01 22 23 00-0648 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	404.58	
01 22 23 00-0649 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	872.63	
For >6 Months (>26 Weeks), Deduct	-34.91	
01 22 23 00-0650 Generator Sets (01 22 23 00-0635)		
01 22 23 00-0651 Portable, Gas Powered Generator Sets (01 22 23 00-0650)		
Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0771 for reimbursable fuel fees.		
01 22 23 00-0652 DAY 3.6 KW Gas Powered Generator Set.....	51.27	
Note: Fuel consumption: 100% load – 0.54 gallons per hour		
For LP Or NG Gas, Add	6.41	
For Half Day Usage, Deduct	-16.02	
01 22 23 00-0653 WK 3.6 KW Gas Powered Generator Set.....	184.82	
Note: Fuel consumption: 100% load – 0.54 gallons per hour		
For LP Or NG Gas, Add	23.10	
01 22 23 00-0654 MO 3.6 KW Gas Powered Generator Set.....	512.73	
Note: Fuel consumption: 100% load – 0.54 gallons per hour		
For LP Or NG Gas, Add	64.09	
For >6 Months (>26 Weeks), Deduct	-20.51	
01 22 23 00-0655 DAY 5 KW Gas Powered Generator Set.....	72.74	
Note: Fuel consumption: 100% load – 0.75 gallons per hour		
For LP Or NG Gas, Add	9.09	
For Half Day Usage, Deduct	-22.73	
01 22 23 00-0656 WK 5 KW Gas Powered Generator Set.....	232.52	
Note: Fuel consumption: 100% load – 0.75 gallons per hour		
For LP Or NG Gas, Add	29.07	
01 22 23 00-0657 MO 5 KW Gas Powered Generator Set.....	530.62	
Note: Fuel consumption: 100% load – 0.75 gallons per hour		
For LP Or NG Gas, Add	66.33	
For >6 Months (>26 Weeks), Deduct	-21.22	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0658	DAY		6.5 KW Gas Powered Generator Set.....	93.01	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	11.63	
			For Half Day Usage, Deduct	-29.07	
01 22 23 00-0659	WK		6.5 KW Gas Powered Generator Set.....	250.40	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	31.30	
01 22 23 00-0660	MO		6.5 KW Gas Powered Generator Set.....	691.59	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	86.45	
			For >6 Months (>26 Weeks), Deduct	-27.66	
01 22 23 00-0661	DAY		10 KW Gas Powered Generator Set.....	103.74	
			Note: Fuel consumption: 100% load – 1.35 gallons per hour		
			For LP Or NG Gas, Add	12.97	
			For Half Day Usage, Deduct	-32.42	
01 22 23 00-0662	WK		10 KW Gas Powered Generator Set.....	280.21	
			Note: Fuel consumption: 100% load – 1.35 gallons per hour		
			For LP Or NG Gas, Add	35.03	
01 22 23 00-0663	MO		10 KW Gas Powered Generator Set.....	804.87	
			Note: Fuel consumption: 100% load – 1.35 gallons per hour		
			For LP Or NG Gas, Add	100.61	
			For >6 Months (>26 Weeks), Deduct	-32.19	
01 22 23 00-0664	DAY		15 KW Gas Powered Generator Set.....	189.95	
			Note: Fuel consumption: 100% load – 1.70 gallons per hour		
			For LP Or NG Gas, Add	23.74	
			For Half Day Usage, Deduct	-59.36	
01 22 23 00-0665	WK		15 KW Gas Powered Generator Set.....	539.61	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour		
			For LP Or NG Gas, Add	67.45	
01 22 23 00-0666	MO		15 KW Gas Powered Generator Set.....	1,165.57	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour		
			For LP Or NG Gas, Add	145.70	
			For >6 Months (>26 Weeks), Deduct	-46.62	
01 22 23 00-0667			Towable, Diesel Powered Generator Sets (01 22 23 00-0650)		
			Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0771 for reimbursable fuel fees.		
01 22 23 00-0668	DAY		20 KW, 60 Hertz Towable Diesel Powered Generator Set	213.44	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	85.38	
			For >16 To 24 Hours Usage Per Day, Add	170.75	
01 22 23 00-0669	WK		20 KW, 60 Hertz Towable Diesel Powered Generator Set	558.04	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	223.22	
			For >80 Hours Usage Per Week, Add	446.43	
01 22 23 00-0670	MO		20 KW, 60 Hertz Towable Diesel Powered Generator Set	1,520.31	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	608.12	
			For >320 Hours Usage Per Month, Add	1,216.25	
			For >6 Months (>26 Weeks), Deduct	-60.81	
01 22 23 00-0671	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set	371.13	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	148.45	
			For >16 To 24 Hours Usage Per Day, Add	296.90	
01 22 23 00-0672	WK		30 KW, 60 Hertz Towable Diesel Powered Generator Set	1,101.42	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	440.57	
			For >80 Hours Usage Per Week, Add	881.14	
01 22 23 00-0673	MO		30 KW, 60 Hertz Towable Diesel Powered Generator Set	2,274.68	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	909.87	
			For >320 Hours Usage Per Month, Add	1,819.74	
			For >6 Months (>26 Weeks), Deduct	-90.99	
01 22 23 00-0674	DAY		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	407.05	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	162.82	
			For >16 To 24 Hours Usage Per Day, Add	325.64	
01 22 23 00-0675	WK		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set	1,137.34	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	454.94	
			For >80 Hours Usage Per Week, Add	909.87	

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MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
01 22 23 00-0676	MO	40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,514.12		
		Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,005.65		
		For >320 Hours Usage Per Month, Add	2,011.30		
		For >6 Months (>26 Weeks), Deduct	-100.56		
01 22 23 00-0677	DAY	55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	436.98		
		Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	174.79		
		For >16 To 24 Hours Usage Per Day, Add	349.58		
01 22 23 00-0678	WK	55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,197.20		
		Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	478.88		
		For >80 Hours Usage Per Week, Add	957.76		
01 22 23 00-0679	MO	55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,873.28		
		Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,149.31		
		For >320 Hours Usage Per Month, Add	2,298.62		
		For >6 Months (>26 Weeks), Deduct	-114.93		
01 22 23 00-0680	DAY	70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	478.88		
		Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	191.55		
		For >16 To 24 Hours Usage Per Day, Add	383.10		
01 22 23 00-0681	WK	70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,358.82		
		Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	543.53		
		For >80 Hours Usage Per Week, Add	1,087.06		
01 22 23 00-0682	MO	70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,232.44		
		Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,292.98		
		For >320 Hours Usage Per Month, Add	2,585.95		
		For >6 Months (>26 Weeks), Deduct	-129.30		
01 22 23 00-0683	DAY	80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	538.74		
		Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	215.50		
		For >16 To 24 Hours Usage Per Day, Add	430.99		
01 22 23 00-0684	WK	80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,436.64		
		Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	574.66		
		For >80 Hours Usage Per Week, Add	1,149.31		
01 22 23 00-0685	MO	80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,591.60		
		Note: Fuel consumption: 100% load - 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,436.64		
		For >320 Hours Usage Per Month, Add	2,873.28		
		For >6 Months (>26 Weeks), Deduct	-143.66		
01 22 23 00-0686	DAY	100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	556.70		
		Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	222.68		
		For >16 To 24 Hours Usage Per Day, Add	445.36		
01 22 23 00-0687	WK	100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,496.50		
		Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	598.60		
		For >80 Hours Usage Per Week, Add	1,197.20		
01 22 23 00-0688	MO	100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,070.48		
		Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,628.19		
		For >320 Hours Usage Per Month, Add	3,256.38		
		For >6 Months (>26 Weeks), Deduct	-162.82		
01 22 23 00-0689	DAY	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	628.53		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		For >8 To 16 Hours Usage Per Day, Add	251.41		
		For >16 To 24 Hours Usage Per Day, Add	502.82		
01 22 23 00-0690	WK	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,735.94		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		For >40 To 80 Hours Usage Per Week, Add	694.38		
		For >80 Hours Usage Per Week, Add	1,388.75		
01 22 23 00-0691	MO	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,669.08		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		For >160 To 320 Hours Usage Per Month, Add	1,867.63		
		For >320 Hours Usage Per Month, Add	3,735.26		
		For >6 Months (>26 Weeks), Deduct	-186.76		



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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
01 22 23 00-0692	DAY	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set 658.46 Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 263.38 For >16 To 24 Hours Usage Per Day, Add 526.77		
01 22 23 00-0693	WK	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,825.73 Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 730.29 For >80 Hours Usage Per Week, Add 1,460.58		
01 22 23 00-0694	MO	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set 5,147.96 Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,059.18 For >320 Hours Usage Per Month, Add 4,118.37 For >6 Months (>26 Weeks), Deduct -205.92		
01 22 23 00-0695	DAY	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set 688.39 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 275.36 For >16 To 24 Hours Usage Per Day, Add 550.71		
01 22 23 00-0696	WK	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,975.38 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 790.15 For >80 Hours Usage Per Week, Add 1,580.30		
01 22 23 00-0697	MO	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set 5,387.40 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,154.96 For >320 Hours Usage Per Month, Add 4,309.92 For >6 Months (>26 Weeks), Deduct -215.50		
01 22 23 00-0698	DAY	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set 718.32 Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 287.33 For >16 To 24 Hours Usage Per Day, Add 574.66		
01 22 23 00-0699	WK	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,095.10 Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 838.04 For >80 Hours Usage Per Week, Add 1,676.08		
01 22 23 00-0700	MO	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set 5,626.84 Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,250.74 For >320 Hours Usage Per Month, Add 4,501.47 For >6 Months (>26 Weeks), Deduct -225.07		
01 22 23 00-0701	DAY	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set 718.32 Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 287.33 For >16 To 24 Hours Usage Per Day, Add 574.66		
01 22 23 00-0702	WK	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,095.10 Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 838.04 For >80 Hours Usage Per Week, Add 1,676.08		
01 22 23 00-0703	MO	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set 5,626.84 Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,250.74 For >320 Hours Usage Per Month, Add 4,501.47 For >6 Months (>26 Weeks), Deduct -225.07		
01 22 23 00-0704	DAY	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set 987.69 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 395.08 For >16 To 24 Hours Usage Per Day, Add 790.15		
01 22 23 00-0705	WK	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,454.26 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 981.70 For >80 Hours Usage Per Week, Add 1,963.41		
01 22 23 00-0706	MO	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set 7,183.20 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,873.28 For >320 Hours Usage Per Month, Add 5,746.56 For >6 Months (>26 Weeks), Deduct -287.33		
01 22 23 00-0707	DAY	250.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,047.55 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 419.02 For >16 To 24 Hours Usage Per Day, Add 838.04		

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0708	WK		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,514.12	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,005.65	
			For >80 Hours Usage Per Week, Add	2,011.30	
01 22 23 00-0709	MO		250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,422.64	
			Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	2,969.06	
			For >320 Hours Usage Per Month, Add	5,938.11	
			For >6 Months (>26 Weeks), Deduct	-296.91	
01 22 23 00-0710	DAY		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,107.41	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	442.96	
			For >16 To 24 Hours Usage Per Day, Add	885.93	
01 22 23 00-0711	WK		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,573.98	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,029.59	
			For >80 Hours Usage Per Week, Add	2,059.18	
01 22 23 00-0712	MO		275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,662.08	
			Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,064.83	
			For >320 Hours Usage Per Month, Add	6,129.66	
			For >6 Months (>26 Weeks), Deduct	-306.48	
01 22 23 00-0713	DAY		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,143.33	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	457.33	
			For >16 To 24 Hours Usage Per Day, Add	914.66	
01 22 23 00-0714	WK		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,753.56	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,101.42	
			For >80 Hours Usage Per Week, Add	2,202.85	
01 22 23 00-0715	MO		300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	8,140.96	
			Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,256.38	
			For >320 Hours Usage Per Month, Add	6,512.77	
			For >6 Months (>26 Weeks), Deduct	-325.64	
01 22 23 00-0716	DAY		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,197.20	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	478.88	
			For >16 To 24 Hours Usage Per Day, Add	957.76	
01 22 23 00-0717	WK		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,112.72	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	1,245.09	
			For >80 Hours Usage Per Week, Add	2,490.18	
01 22 23 00-0718	MO		350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	8,979.00	
			Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	3,591.60	
			For >320 Hours Usage Per Month, Add	7,183.20	
			For >6 Months (>26 Weeks), Deduct	-359.16	
01 22 23 00-0719	DAY		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,175.85	
			Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	870.34	
			For >16 To 24 Hours Usage Per Day, Add	1,740.68	
01 22 23 00-0720	WK		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,625.59	
			Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	2,250.24	
			For >80 Hours Usage Per Week, Add	4,500.47	
01 22 23 00-0721	MO		400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	14,877.60	
			Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	5,951.04	
			For >320 Hours Usage Per Month, Add	11,902.08	
			For >6 Months (>26 Weeks), Deduct	-595.10	
01 22 23 00-0722	DAY		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	2,789.55	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,115.82	
			For >16 To 24 Hours Usage Per Day, Add	2,231.64	
01 22 23 00-0723	WK		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	7,252.83	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	2,901.13	
			For >80 Hours Usage Per Week, Add	5,802.26	



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CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
01 22 23 00-0724	MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set	16,737.30		
	Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	6,694.92		
	For >320 Hours Usage Per Month, Add	13,389.84		
	For >6 Months (>26 Weeks), Deduct	-669.49		
01 22 23 00-0725	DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set	3,449.74		
	Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	1,379.90		
	For >16 To 24 Hours Usage Per Day, Add	2,759.79		
01 22 23 00-0726	WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set	9,112.53		
	Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	3,645.01		
	For >80 Hours Usage Per Week, Add	7,290.02		
01 22 23 00-0727	MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set	22,316.40		
	Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	8,926.56		
	For >320 Hours Usage Per Month, Add	17,653.12		
	For >6 Months (>26 Weeks), Deduct	-892.66		
01 22 23 00-0728	DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set	3,728.70		
	Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	1,491.48		
	For >16 To 24 Hours Usage Per Day, Add	2,982.96		
01 22 23 00-0729	WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set	8,591.81		
	Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	3,436.72		
	For >80 Hours Usage Per Week, Add	6,873.45		
01 22 23 00-0730	MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set	25,775.44		
	Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	10,310.18		
	For >320 Hours Usage Per Month, Add	20,620.35		
	For >6 Months (>26 Weeks), Deduct	-1,031.02		
01 22 23 00-0731	DAY 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	4,230.82		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	1,692.33		
	For >16 To 24 Hours Usage Per Day, Add	3,384.66		
01 22 23 00-0732	WK 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	11,055.92		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	4,422.37		
	For >80 Hours Usage Per Week, Add	8,844.74		
01 22 23 00-0733	MO 1,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	30,285.21		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 71.1 gallons per hour, 75% load - 52.1 gallons per hour, 50% load - 36.4 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	12,114.08		
	For >320 Hours Usage Per Month, Add	24,228.17		
	For >6 Months (>26 Weeks), Deduct	-1,211.41		
01 22 23 00-0734	DAY 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	5,579.10		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	2,231.64		
	For >16 To 24 Hours Usage Per Day, Add	4,463.28		
01 22 23 00-0735	WK 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,737.30		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	6,694.92		
	For >80 Hours Usage Per Week, Add	13,389.84		
01 22 23 00-0736	MO 1,500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	47,989.56		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 106.5 gallons per hour, 75% load - 77.8 gallons per hour, 50% load - 54.3 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	19,195.82		
	For >320 Hours Usage Per Month, Add	38,391.65		
01 22 23 00-0737	DAY 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	7,355.11		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.			
	For >8 To 16 Hours Usage Per Day, Add	2,942.04		
	For >16 To 24 Hours Usage Per Day, Add	5,884.09		
01 22 23 00-0738	WK 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	18,392.43		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.			
	For >40 To 80 Hours Usage Per Week, Add	7,356.97		
	For >80 Hours Usage Per Week, Add	14,713.94		
01 22 23 00-0739	MO 2,000.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	50,211.90		
	Note: Includes 1,000 Gallon fuel tank. Fuel consumption: 100% load - 141.9 gallons per hour, 75% load - 103.5 gallons per hour, 50% load - 72.2 gallons per hour.			
	For >160 To 320 Hours Usage Per Month, Add	20,084.76		
	For >320 Hours Usage Per Month, Add	40,169.52		
	For >6 Months (>26 Weeks), Deduct	-2,008.48		
01 22 23 00-0740	EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	1,009.61		
01 22 23 00-0741	EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,660.07		

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01 22 23 00-0742 EA 1,000 To 2,000 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	2,841.25	
01 22 23 00-0743 Cabling For Generator Sets (01 22 23 00-0650) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0744 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	26.34	
For Half Day Usage, Deduct	-8.23	
01 22 23 00-0745 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	46.09	
01 22 23 00-0746 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	138.28	
For >6 Months (>26 Weeks), Deduct	-5.53	
01 22 23 00-0747 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	13.17	
For Half Day Usage, Deduct	-4.12	
01 22 23 00-0748 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	38.31	
01 22 23 00-0749 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	106.55	
For >6 Months (>26 Weeks), Deduct	-4.26	
01 22 23 00-0750 Resistive Loadbanks For Generator Sets (01 22 23 00-0650) Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0771 for reimbursable fuel fees.		
01 22 23 00-0751 DAY 100 KW A/C Resistive Loadbank.....	371.52	
01 22 23 00-0752 WK 100 KW A/C Resistive Loadbank.....	706.62	
01 22 23 00-0753 MO 100 KW A/C Resistive Loadbank.....	1,930.46	
For >6 Months (>26 Weeks), Deduct	-77.22	
01 22 23 00-0754 DAY 650 KW A/C Resistive Loadbank.....	691.12	
01 22 23 00-0755 WK 650 KW A/C Resistive Loadbank.....	1,848.23	
01 22 23 00-0756 MO 650 KW A/C Resistive Loadbank.....	4,712.20	
For >6 Months (>26 Weeks), Deduct	-188.49	
01 22 23 00-0757 Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0650) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0758 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	64.65	
For Half Day Usage, Deduct	-20.20	
01 22 23 00-0759 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	167.61	
01 22 23 00-0760 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	472.89	
For >6 Months (>26 Weeks), Deduct	-18.92	
01 22 23 00-0761 Portable Distribution Panels For Generator Sets (01 22 23 00-0650) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0762 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	143.66	
For Half Day Usage, Deduct	-44.89	
01 22 23 00-0763 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	389.09	
01 22 23 00-0764 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	1,089.45	
For >6 Months (>26 Weeks), Deduct	-43.58	
01 22 23 00-0765 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	117.33	
For Half Day Usage, Deduct	-36.67	
01 22 23 00-0766 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	305.29	
01 22 23 00-0767 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	867.97	
For >6 Months (>26 Weeks), Deduct	-34.72	
01 22 23 00-0768 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	149.65	
For Half Day Usage, Deduct	-46.77	
01 22 23 00-0769 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	377.12	
01 22 23 00-0770 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	1,023.61	
For >6 Months (>26 Weeks), Deduct	-40.94	
01 22 23 00-0771 Fuel Reimbursement For Generators (01 22 23 00-0650) Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0772 EA Fuel Reimbursement For Generators	1.00	
01 22 23 00-0773 Generator Accessories (01 22 23 00-0650) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0774 Step Down Transformer (01 22 23 00-0773)		
01 22 23 00-0775 WK 75 KVA, 480-208 Volt, Step Down Transformer	353.17	
01 22 23 00-0776 MO 75 KVA, 480-208 Volt, Step Down Transformer	987.69	
For >6 Months (>26 Weeks), Deduct	-39.51	
01 22 23 00-0777 WK 150 KVA, 480-208 Volt, Step Down Transformer	566.28	
01 22 23 00-0778 MO 150 KVA, 480-208 Volt, Step Down Transformer	1,697.63	
For >6 Months (>26 Weeks), Deduct	-67.91	
01 22 23 00-0779 WK 225 KVA, 480-208 Volt, Step Down Transformer	754.24	
01 22 23 00-0780 MO 225 KVA, 480-208 Volt, Step Down Transformer	2,262.71	
For >6 Months (>26 Weeks), Deduct	-90.51	
01 22 23 00-0781 WK 500 KVA, 480-208 Volt, Step Down Transformer	897.90	
01 22 23 00-0782 MO 500 KVA, 480-208 Volt, Step Down Transformer	2,693.70	
For >6 Months (>26 Weeks), Deduct	-107.75	



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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
01 22 23 00-0783	WK	1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,340.86	
01 22 23 00-0784	MO	1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	4,004.63	
		For >6 Months (>26 Weeks), Deduct	-160.19	
01 22 23 00-0785	WK	1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	2,178.90	
01 22 23 00-0786	MO	1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	6,530.73	
		For >6 Months (>26 Weeks), Deduct	-261.23	
01 22 23 00-0787	WK	2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	2,514.12	
01 22 23 00-0788	MO	2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer	7,542.36	
		For >6 Months (>26 Weeks), Deduct	-301.69	
01 22 23 00-0789 Portable Panel (01 22 23 00-0773)				
01 22 23 00-0790	WK	100 Amperes, Portable Panel.....	281.34	
01 22 23 00-0791	MO	100 Amperes, Portable Panel.....	718.32	
		For >6 Months (>26 Weeks), Deduct	-28.73	
01 22 23 00-0792	WK	200 Amperes, Portable Panel.....	336.41	
01 22 23 00-0793	MO	200 Amperes, Portable Panel.....	897.90	
		For >6 Months (>26 Weeks), Deduct	-35.92	
01 22 23 00-0794	WK	400 Amperes, Portable Panel.....	359.16	
01 22 23 00-0795	MO	400 Amperes, Portable Panel.....	1,077.48	
		For >6 Months (>26 Weeks), Deduct	-43.10	
01 22 23 00-0796 Portable Fusible Disconnect (01 22 23 00-0773)				
01 22 23 00-0797	WK	100 - 200 Amperes, Portable Fusible Disconnect.....	125.71	
01 22 23 00-0798	MO	100 - 200 Amperes, Portable Fusible Disconnect.....	377.12	
		For >6 Months (>26 Weeks), Deduct	-15.08	
01 22 23 00-0799	WK	300 - 400 Amperes, Portable Fusible Disconnect.....	251.41	
01 22 23 00-0800	MO	300 - 400 Amperes, Portable Fusible Disconnect.....	754.24	
		For >6 Months (>26 Weeks), Deduct	-30.17	
01 22 23 00-0801 Portable Transfer Switch (01 22 23 00-0773)				
01 22 23 00-0802	WK	100 Amperes, 480 Volt, Portable Transfer Switch	377.12	
01 22 23 00-0803	MO	100 Amperes, 480 Volt, Portable Transfer Switch	1,131.35	
		For >6 Months (>26 Weeks), Deduct	-45.25	
01 22 23 00-0804	WK	200 Amperes, 480 Volt, Portable Transfer Switch	502.82	
01 22 23 00-0805	MO	200 Amperes, 480 Volt, Portable Transfer Switch	1,508.47	
		For >6 Months (>26 Weeks), Deduct	-60.34	
01 22 23 00-0806	WK	400 Amperes, 480 Volt, Portable Transfer Switch	628.53	
01 22 23 00-0807	MO	400 Amperes, 480 Volt, Portable Transfer Switch	1,885.59	
		For >6 Months (>26 Weeks), Deduct	-75.42	
01 22 23 00-0808 Welding Machines (01 22 23 00-0635)				
Note: Includes delivery to job site and pick-up when complete. Excludes operator.				
01 22 23 00-0809 CC/CV Inverter Welder (01 22 23 00-0808)				
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0771 for reimbursable fuel fees.				
01 22 23 00-0810	DAY	250 Amperes, CC Inverter Welder.....	43.03	
		For Half Day Usage, Deduct	-13.45	
01 22 23 00-0811	WK	250 Amperes, CC Inverter Welder.....	93.74	
01 22 23 00-0812	MO	250 Amperes, CC Inverter Welder.....	284.31	
		For >6 Months (>26 Weeks), Deduct	-11.37	
01 22 23 00-0813	DAY	300 Amperes, CC/CV Inverter Welder.....	49.18	
		For Half Day Usage, Deduct	-15.37	
01 22 23 00-0814	WK	300 Amperes, CC/CV Inverter Welder.....	130.63	
01 22 23 00-0815	MO	300 Amperes, CC/CV Inverter Welder.....	345.78	
		For >6 Months (>26 Weeks), Deduct	-13.83	
01 22 23 00-0816	DAY	350 Amperes, CC/CV Inverter Welder.....	50.71	
		For Half Day Usage, Deduct	-15.85	
01 22 23 00-0817	WK	350 Amperes, CC/CV Inverter Welder.....	133.70	
01 22 23 00-0818	MO	350 Amperes, CC/CV Inverter Welder.....	376.52	
		For >6 Months (>26 Weeks), Deduct	-15.06	
01 22 23 00-0819 MIG Welder (01 22 23 00-0808)				
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0771 for reimbursable fuel fees.				
01 22 23 00-0820	DAY	115 Volt MIG Welder	73.77	
		For Half Day Usage, Deduct	-23.05	
01 22 23 00-0821	WK	115 Volt MIG Welder	192.10	
01 22 23 00-0822	MO	115 Volt MIG Welder	522.51	
		For >6 Months (>26 Weeks), Deduct	-20.90	
01 22 23 00-0823 Diesel Powered Towable Welding Machines (01 22 23 00-0808)				
Note: Includes delivery to job site and pick-up when complete. Excludes operator.				
01 22 23 00-0824	DAY	250 To 299 Amperes, Diesel Powered Towable Welding Machine	138.31	
		For Half Day Usage, Deduct	-43.22	
01 22 23 00-0825	WK	250 To 299 Amperes, Diesel Powered Towable Welding Machine	338.10	
01 22 23 00-0826	MO	250 To 299 Amperes, Diesel Powered Towable Welding Machine	806.82	
		For >6 Months (>26 Weeks), Deduct	-32.27	

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01 22 23 00-0827 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine <i>For Half Day Usage, Deduct</i>	184.42 -57.63	
01 22 23 00-0828 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine	361.15	
01 22 23 00-0829 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine	843.70	
<i>For >6 Months (>26 Weeks), Deduct</i>	-33.75	
01 22 23 00-0830 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine	192.10	
<i>For Half Day Usage, Deduct</i>	-60.03	
01 22 23 00-0831 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine	384.20	
01 22 23 00-0832 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine	937.45	
<i>For >6 Months (>26 Weeks), Deduct</i>	-37.50	
01 22 23 00-0833 General Equipment (01 22 23)		
01 22 23 00-0834 Jacks And Bracing (01 22 23 00-0833)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0835 Manual Hydraulic Jacks (01 22 23 00-0834)		
01 22 23 00-0836 DAY 12 Ton Manual Hydraulic Bottle Jack.....	1.67	
<i>For Half Day Usage, Deduct</i>	-0.52	
01 22 23 00-0837 WK 12 Ton Manual Hydraulic Bottle Jack.....	7.93	
01 22 23 00-0838 MO 12 Ton Manual Hydraulic Bottle Jack.....	28.50	
<i>For >6 Months (>26 Weeks), Deduct</i>	-1.14	
01 22 23 00-0839 DAY 20 Ton Manual Hydraulic Bottle Jack.....	2.92	
<i>For Half Day Usage, Deduct</i>	-0.91	
01 22 23 00-0840 WK 20 Ton Manual Hydraulic Bottle Jack.....	9.18	
01 22 23 00-0841 MO 20 Ton Manual Hydraulic Bottle Jack.....	34.76	
<i>For >6 Months (>26 Weeks), Deduct</i>	-1.39	
01 22 23 00-0842 DAY 50 Ton Manual Hydraulic Bottle Jack.....	10.43	
<i>For Half Day Usage, Deduct</i>	-3.26	
01 22 23 00-0843 WK 50 Ton Manual Hydraulic Bottle Jack.....	40.49	
01 22 23 00-0844 MO 50 Ton Manual Hydraulic Bottle Jack.....	145.66	
<i>For >6 Months (>26 Weeks), Deduct</i>	-5.83	
01 22 23 00-0845 DAY 100 Ton Manual Hydraulic Bottle Jack.....	14.61	
<i>For Half Day Usage, Deduct</i>	-4.57	
01 22 23 00-0846 WK 100 Ton Manual Hydraulic Bottle Jack.....	58.43	
01 22 23 00-0847 MO 100 Ton Manual Hydraulic Bottle Jack.....	210.46	
<i>For >6 Months (>26 Weeks), Deduct</i>	-8.42	
01 22 23 00-0848 Manual Screw Jacks (01 22 23 00-0834)		
01 22 23 00-0849 DAY 10 To 20 Ton Manual Screw Jack	19.16	
<i>For Half Day Usage, Deduct</i>	-5.99	
01 22 23 00-0850 WK 10 To 20 Ton Manual Screw Jack	50.71	
01 22 23 00-0851 MO 10 To 20 Ton Manual Screw Jack	152.12	
<i>For >6 Months (>26 Weeks), Deduct</i>	-6.08	
01 22 23 00-0852 Shores/Braces (01 22 23 00-0834)		
01 22 23 00-0853 MO Up To 5' Height, Adjustable Tubular Steel Shoring.....	15.78	
01 22 23 00-0854 MO Up To 10' Height, Adjustable Tubular Steel Shoring.....	20.28	
01 22 23 00-0855 MO >10' To 16' Height, Adjustable Tubular Steel Shoring.....	27.04	
01 22 23 00-0856 MO Up To 10' Height, Adjustable Wood Shoring.....	6.57	
01 22 23 00-0857 MO >10' To 16' Height, Adjustable Wood Shoring.....	8.76	
01 22 23 00-0858 EA Erect And Strip Shores To 10'.....	11.57	
<i>For >20 To 50, Deduct</i>	-1.74	
<i>For >50 To 100, Deduct</i>	-4.05	
<i>For >100, Deduct</i>	-6.36	
01 22 23 00-0859 EA Erect And Strip Shores To 13'.....	13.88	
<i>For >20 To 50, Deduct</i>	-2.08	
<i>For >50 To 100, Deduct</i>	-4.86	
<i>For >100, Deduct</i>	-7.63	
01 22 23 00-0860 EA Erect And Strip Shores To 16'.....	16.19	
<i>For >20 To 50, Deduct</i>	-2.43	
<i>For >50 To 100, Deduct</i>	-5.67	
<i>For >100, Deduct</i>	-8.90	
01 22 23 00-0861 Pressure Washers (01 22 23 00-0833)		
Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0862 DAY 2,000 PSI Pressure Washer With Full-Time Operator	843.88	
<i>For Equipment Without Operator, Deduct</i>	-734.16	
<i>For Half Day Usage, Deduct</i>	-401.37	
01 22 23 00-0863 WK 2,000 PSI Pressure Washer With Full-Time Operator	3,949.33	
<i>For Equipment Without Operator, Deduct</i>	-3,670.81	
01 22 23 00-0864 MO 2,000 PSI Pressure Washer With Full-Time Operator	16,615.81	
<i>For Equipment Without Operator, Deduct</i>	-15,906.85	
<i>For >6 Months (>26 Weeks), Deduct</i>	-28.36	
01 22 23 00-0865 DAY 2,500 PSI Pressure Washer With Full-Time Operator	843.88	
<i>For Equipment Without Operator, Deduct</i>	-734.16	
<i>For Half Day Usage, Deduct</i>	-401.37	
01 22 23 00-0866 WK 2,500 PSI Pressure Washer With Full-Time Operator	3,949.33	
<i>For Equipment Without Operator, Deduct</i>	-3,670.81	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0867	MO		2,500 PSI Pressure Washer With Full-Time Operator	16,615.81	
			For Equipment Without Operator, Deduct	-15,906.85	
			For >6 Months (>26 Weeks), Deduct	-28.36	
01 22 23 00-0868	DAY		3,000 PSI Pressure Washer With Full-Time Operator	843.88	
			For Equipment Without Operator, Deduct	-734.16	
			For Half Day Usage, Deduct	-401.37	
01 22 23 00-0869	WK		3,000 PSI Pressure Washer With Full-Time Operator	3,949.33	
			For Equipment Without Operator, Deduct	-3,670.81	
01 22 23 00-0870	MO		3,000 PSI Pressure Washer With Full-Time Operator	16,615.81	
			For Equipment Without Operator, Deduct	-15,906.85	
			For >6 Months (>26 Weeks), Deduct	-28.36	
01 22 23 00-0871	DAY		3,500 PSI Pressure Washer With Full-Time Operator	852.32	
			For Equipment Without Operator, Deduct	-734.16	
			For Half Day Usage, Deduct	-404.01	
01 22 23 00-0872	WK		3,500 PSI Pressure Washer With Full-Time Operator	3,974.65	
			For Equipment Without Operator, Deduct	-3,670.81	
01 22 23 00-0873	MO		3,500 PSI Pressure Washer With Full-Time Operator	16,683.33	
			For Equipment Without Operator, Deduct	-15,906.85	
			For >6 Months (>26 Weeks), Deduct	-31.06	
01 22 23 00-0874	DAY		4,000 PSI Pressure Washer With Full-Time Operator	886.08	
			For Equipment Without Operator, Deduct	-734.16	
			For Half Day Usage, Deduct	-414.56	
01 22 23 00-0875	WK		4,000 PSI Pressure Washer With Full-Time Operator	4,084.37	
			For Equipment Without Operator, Deduct	-3,670.81	
01 22 23 00-0876	MO		4,000 PSI Pressure Washer With Full-Time Operator	17,063.13	
			For Equipment Without Operator, Deduct	-15,906.85	
			For >6 Months (>26 Weeks), Deduct	-46.25	
01 22 23 00-0877	DAY		5,000 PSI Pressure Washer With Full-Time Operator	902.96	
			For Equipment Without Operator, Deduct	-734.16	
			For Half Day Usage, Deduct	-419.83	
01 22 23 00-0878	WK		5,000 PSI Pressure Washer With Full-Time Operator	4,126.57	
			For Equipment Without Operator, Deduct	-3,670.81	
01 22 23 00-0879	MO		5,000 PSI Pressure Washer With Full-Time Operator	17,189.73	
			For Equipment Without Operator, Deduct	-15,906.85	
			For >6 Months (>26 Weeks), Deduct	-51.32	
01 22 23 00-0880			Confined Space Entry Equipment (01 22 23 00-0833)		
			Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0881	DAY		Ventilation Equipment For Confined Space	46.63	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
			For Half Day Usage, Deduct	-14.57	
01 22 23 00-0882	WK		Ventilation Equipment For Confined Space	139.90	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0883	MO		Ventilation Equipment For Confined Space	417.47	
			Note: Includes electric or gas blower and ventilation duct up to 25'.		
			For >6 Months (>26 Weeks), Deduct	-16.70	
01 22 23 00-0884	DAY		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	66.13	
			For Half Day Usage, Deduct	-20.67	
01 22 23 00-0885	WK		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	198.38	
01 22 23 00-0886	MO		Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	595.14	
			For >6 Months (>26 Weeks), Deduct	-23.81	
01 22 23 00-0887	DAY		Confined Space Air Monitor Personnel	734.16	
			Note: Per person day.		
			For Half Day Usage, Deduct	-367.08	
01 22 23 00-0888			Mowers (01 22 23 00-0833)		
			Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0889	DAY		21" Walk Behind Lawn Mower	96.73	
			For Half Day Usage, Deduct	-30.23	
01 22 23 00-0890	WK		21" Walk Behind Lawn Mower	278.10	
01 22 23 00-0891	MO		21" Walk Behind Lawn Mower	568.30	
			For >6 Months (>26 Weeks), Deduct	-22.73	
01 22 23 00-0892	DAY		32" Walk Behind Lawn Mower	120.92	
			For Half Day Usage, Deduct	-37.79	
01 22 23 00-0893	WK		32" Walk Behind Lawn Mower	290.20	
01 22 23 00-0894	MO		32" Walk Behind Lawn Mower	604.58	
			For >6 Months (>26 Weeks), Deduct	-24.18	
01 22 23 00-0895	DAY		36" To 48" Walk Behind Deck Mower	217.65	
			For Half Day Usage, Deduct	-68.02	
01 22 23 00-0896	WK		36" To 48" Walk Behind Deck Mower	604.58	
01 22 23 00-0897	MO		36" To 48" Walk Behind Deck Mower	1,753.27	
			For >6 Months (>26 Weeks), Deduct	-70.13	
01 22 23 00-0898	DAY		61" To 72" Walk Behind Deck Mower	217.65	
			For Half Day Usage, Deduct	-68.02	
01 22 23 00-0899	WK		61" To 72" Walk Behind Deck Mower	604.58	
01 22 23 00-0900	MO		61" To 72" Walk Behind Deck Mower	1,753.27	
			For >6 Months (>26 Weeks), Deduct	-70.13	
01 22 23 00-0901			Trailer Mounted Brush Chipper (01 22 23 00-0833)		
			Note: Includes delivery to job site and pick-up when complete.		

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01 22 23 00-0902 DAY 4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	187.47	
For Half Day Usage, Deduct	-58.58	
01 22 23 00-0903 WK 4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	448.30	
01 22 23 00-0904 MO 4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	1,377.52	
For >6 Months (>26 Weeks), Deduct	-55.10	
01 22 23 00-0905 DAY 6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	244.53	
For Half Day Usage, Deduct	-76.42	
01 22 23 00-0906 WK 6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	551.01	
01 22 23 00-0907 MO 6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	1,467.18	
For >6 Months (>26 Weeks), Deduct	-58.69	
01 22 23 00-0908 DAY 9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	456.46	
For Half Day Usage, Deduct	-142.64	
01 22 23 00-0909 WK 9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	1,027.03	
01 22 23 00-0910 MO 9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	2,738.74	
For >6 Months (>26 Weeks), Deduct	-109.55	
01 22 23 00-0911 DAY 12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	540.90	
For Half Day Usage, Deduct	-169.03	
01 22 23 00-0912 WK 12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	1,217.02	
01 22 23 00-0913 MO 12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up.....	3,245.40	
For >6 Months (>26 Weeks), Deduct	-129.82	
01 22 23 00-0914 Material Handling Equipment (01 22 23)		
01 22 23 00-0915 Truck Mounted Hydraulic Cranes (01 22 23 00-0914)		
Note: Includes full-time operator, delivery, set-up, rigging, all necessary counter weights and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0916 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,549.74	
For Equipment Without Operator, Deduct	-1,061.47	
For Half Day Usage, Deduct	-683.32	
01 22 23 00-0917 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,786.51	
For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-0918 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	27,450.33	
For Equipment Without Operator, Deduct	-22,998.42	
For >6 Months (>26 Weeks), Deduct	-178.08	
01 22 23 00-0919 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,678.99	
For Equipment Without Operator, Deduct	-1,061.47	
For Half Day Usage, Deduct	-723.71	
01 22 23 00-0920 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,170.67	
For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-0921 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	28,599.21	
For Equipment Without Operator, Deduct	-22,998.42	
For >6 Months (>26 Weeks), Deduct	-224.03	
01 22 23 00-0922 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,808.24	
For Equipment Without Operator, Deduct	-1,061.47	
For Half Day Usage, Deduct	-764.10	
01 22 23 00-0923 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,554.83	
For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-0924 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	29,748.09	
For Equipment Without Operator, Deduct	-22,998.42	
For >6 Months (>26 Weeks), Deduct	-269.99	
01 22 23 00-0925 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,980.57	
For Equipment Without Operator, Deduct	-1,061.47	
For Half Day Usage, Deduct	-817.95	
01 22 23 00-0926 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,071.82	
For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-0927 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	31,291.90	
For Equipment Without Operator, Deduct	-22,998.42	
For >6 Months (>26 Weeks), Deduct	-331.74	
01 22 23 00-0928 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,138.55	
For Equipment Without Operator, Deduct	-1,061.47	
For Half Day Usage, Deduct	-867.32	
01 22 23 00-0929 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,141.72	
For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-0930 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	34,498.71	
For Equipment Without Operator, Deduct	-22,998.42	
For >6 Months (>26 Weeks), Deduct	-460.01	
01 22 23 00-0931 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,511.93	
For Equipment Without Operator, Deduct	-1,061.47	
For Half Day Usage, Deduct	-984.00	
01 22 23 00-0932 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,477.29	
For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-0933 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	38,508.30	
For Equipment Without Operator, Deduct	-22,998.42	
For >6 Months (>26 Weeks), Deduct	-620.40	
01 22 23 00-0934 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,748.89	
For Equipment Without Operator, Deduct	-1,061.47	
For Half Day Usage, Deduct	-1,058.05	
01 22 23 00-0935 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,310.23	
For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-0936 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	41,012.86	
For Equipment Without Operator, Deduct	-22,998.42	
For >6 Months (>26 Weeks), Deduct	-720.58	



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01 22 23 00-0937 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	2,935.58 -1,061.47 -1,116.39	
01 22 23 00-0938 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	11,985.19 -5,307.33	
01 22 23 00-0939 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	43,034.89 -22,998.42 -801.46	
01 22 23 00-0940 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	3,122.27 -1,061.47 -1,174.74	
01 22 23 00-0941 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	12,660.16 -5,307.33	
01 22 23 00-0942 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	45,056.92 -22,998.42 -882.34	
01 22 23 00-0943 DAY 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	3,244.34 -1,061.47 -1,212.88	
01 22 23 00-0944 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	13,076.63 -5,307.33	
01 22 23 00-0945 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	46,320.68 -22,998.42 -932.89	
01 22 23 00-0946 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	3,409.49 -1,061.47 -1,264.49	
01 22 23 00-0947 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	13,694.15 -5,307.33	
01 22 23 00-0948 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	48,158.89 -22,998.42 -1,006.42	
01 22 23 00-0949 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	3,940.85 -1,061.47 -1,430.54	
01 22 23 00-0950 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	15,385.16 -5,307.33	
01 22 23 00-0951 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	53,231.92 -22,998.42 -1,209.34	
01 22 23 00-0952 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	4,307.06 -1,061.47 -1,544.98	
01 22 23 00-0953 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	16,666.88 -5,307.33	
01 22 23 00-0954 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	57,077.07 -22,998.42 -1,363.15	
01 22 23 00-0955 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	4,967.66 -1,061.47 -1,751.42	
01 22 23 00-0956 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	18,979.00 -5,307.33	
01 22 23 00-0957 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	64,013.44 -22,998.42 -1,640.60	
01 22 23 00-0958 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For Half Day Usage, Deduct	5,427.21 -1,061.47 -1,895.03	
01 22 23 00-0959 WK 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct	20,587.43 -5,307.33	
01 22 23 00-0960 MO 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	68,838.73 -22,998.42 -1,833.61	
01 22 23 00-0961 Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0914) Note: Includes full-time operator and counterweights. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.		
01 22 23 00-0962 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	2,784.79 -1,061.47	
01 22 23 00-0963 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	11,453.84 -5,307.33	
01 22 23 00-0964 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	41,437.94 -22,998.42 -737.58	
01 22 23 00-0965 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	4,113.18 -1,061.47	
01 22 23 00-0966 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct	13,665.43 -5,307.33	
01 22 23 00-0967 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator For Equipment Without Operator, Deduct For >6 Months (>26 Weeks), Deduct	48,072.73 -22,998.42 -1,002.97	

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01 22 23 00-0968 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,328.60 -1,061.47	
01 22 23 00-0969 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	15,237.96 -5,307.33	
01 22 23 00-0970 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	52,788.88 -22,998.42 -1,191.62	
01 22 23 00-0971 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,759.43 -1,061.47	
01 22 23 00-0972 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,810.49 -5,307.33	
01 22 23 00-0973 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	57,499.29 -22,998.42 -1,380.03	
01 22 23 00-0974 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,964.07 -1,061.47	
01 22 23 00-0975 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,383.02 -5,307.33	
01 22 23 00-0976 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	62,221.18 -22,998.42 -1,568.91	
01 22 23 00-0977 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,168.72 -1,061.47	
01 22 23 00-0978 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,955.55 -5,307.33	
01 22 23 00-0979 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	66,943.08 -22,998.42 -1,757.79	
01 22 23 00-0980 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,843.68 -1,061.47	
01 22 23 00-0981 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,375.38 -5,307.33	
01 22 23 00-0982 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	74,192.51 -22,998.42 -2,047.76	
01 22 23 00-0983 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,994.01 -1,061.47	
01 22 23 00-0984 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,167.21 -5,307.33	
01 22 23 00-0985 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	118,585.24 -22,998.42 -3,823.47	
01 22 23 00-0986 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0914)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0987 DAY 5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,647.62 -990.30 -700.56	
01 22 23 00-0988 WK 5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,560.21 -4,951.50	
01 22 23 00-0989 MO 5,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	24,916.12 -21,456.52 -138.38	
01 22 23 00-0990 DAY 6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,716.82 -990.30 -722.19	
01 22 23 00-0991 WK 6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,715.90 -4,951.50	
01 22 23 00-0992 MO 6,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	25,262.08 -21,456.52 -152.22	
01 22 23 00-0993 DAY 8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,699.52 -990.30 -716.78	
01 22 23 00-0994 WK 8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,793.74 -4,951.50	
01 22 23 00-0995 MO 8,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	25,781.02 -21,456.52 -172.98	
01 22 23 00-0996 DAY 10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,898.44 -990.30 -778.94	
01 22 23 00-0997 WK 10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,312.68 -4,951.50	
01 22 23 00-0998 MO 10,000 Lb. Capacity, Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	26,991.88 -21,456.52 -221.41	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0999			Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0914) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-1000	DAY		5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,417.56	
			For Equipment Without Operator, Deduct	-990.30	
			For Propane Instead Of Gas Or Diesel, Add	85.45	
			For Half Day Usage, Deduct	-628.67	
01 22 23 00-1001	WK		5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,118.25	
			For Equipment Without Operator, Deduct	-4,951.50	
			For Propane Instead Of Gas Or Diesel, Add	233.35	
01 22 23 00-1002	MO		5,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	24,126.90	
			For Equipment Without Operator, Deduct	-21,456.52	
			For Propane Instead Of Gas Or Diesel, Add	534.08	
			For >6 Months (>26 Weeks), Deduct	-106.82	
01 22 23 00-1003	DAY		6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,440.05	
			For Equipment Without Operator, Deduct	-990.30	
			For Propane Instead Of Gas Or Diesel, Add	89.95	
			For Half Day Usage, Deduct	-635.70	
01 22 23 00-1004	WK		6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,179.66	
			For Equipment Without Operator, Deduct	-4,951.50	
			For Propane Instead Of Gas Or Diesel, Add	245.63	
01 22 23 00-1005	MO		6,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	24,267.44	
			For Equipment Without Operator, Deduct	-21,456.52	
			For Propane Instead Of Gas Or Diesel, Add	562.18	
			For >6 Months (>26 Weeks), Deduct	-112.44	
01 22 23 00-1006	DAY		8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,561.13	
			For Equipment Without Operator, Deduct	-990.30	
			For Propane Instead Of Gas Or Diesel, Add	114.17	
			For Half Day Usage, Deduct	-673.53	
01 22 23 00-1007	WK		8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,516.97	
			For Equipment Without Operator, Deduct	-4,951.50	
			For Propane Instead Of Gas Or Diesel, Add	313.09	
01 22 23 00-1008	MO		8,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	25,045.86	
			For Equipment Without Operator, Deduct	-21,456.52	
			For Propane Instead Of Gas Or Diesel, Add	717.87	
			For >6 Months (>26 Weeks), Deduct	-143.57	
01 22 23 00-1009	DAY		10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,627.82	
			For Equipment Without Operator, Deduct	-990.30	
			For Propane Instead Of Gas Or Diesel, Add	127.50	
			For Half Day Usage, Deduct	-694.38	
01 22 23 00-1010	WK		10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	6,488.08	
			For Equipment Without Operator, Deduct	-4,951.50	
			For Propane Instead Of Gas Or Diesel, Add	307.32	
01 22 23 00-1011	MO		10,000 Lb. Capacity, Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	25,281.63	
			For Equipment Without Operator, Deduct	-21,456.52	
			For Propane Instead Of Gas Or Diesel, Add	765.02	
			For >6 Months (>26 Weeks), Deduct	-153.00	
01 22 23 00-1012			Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0914) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-1013	DAY		5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,353.56	
			For Equipment Without Operator, Deduct	-990.30	
			For Propane Instead Of Gas Or Diesel, Add	72.65	
			For Half Day Usage, Deduct	-608.67	
01 22 23 00-1014	WK		5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,781.80	
			For Equipment Without Operator, Deduct	-4,951.50	
			For Propane Instead Of Gas Or Diesel, Add	166.06	
01 22 23 00-1015	MO		5,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	23,445.79	
			For Equipment Without Operator, Deduct	-21,456.52	
			For Propane Instead Of Gas Or Diesel, Add	397.85	
			For >6 Months (>26 Weeks), Deduct	-79.57	
01 22 23 00-1016	DAY		6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,362.21	
			For Equipment Without Operator, Deduct	-990.30	
			For Propane Instead Of Gas Or Diesel, Add	74.38	
			For Half Day Usage, Deduct	-611.37	
01 22 23 00-1017	WK		6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,807.75	
			For Equipment Without Operator, Deduct	-4,951.50	
			For Propane Instead Of Gas Or Diesel, Add	171.25	
01 22 23 00-1018	MO		6,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	23,506.33	
			For Equipment Without Operator, Deduct	-21,456.52	
			For Propane Instead Of Gas Or Diesel, Add	409.96	
			For >6 Months (>26 Weeks), Deduct	-81.99	
01 22 23 00-1019	DAY		8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,543.84	
			For Equipment Without Operator, Deduct	-990.30	
			For Propane Instead Of Gas Or Diesel, Add	110.71	
			For Half Day Usage, Deduct	-668.13	
01 22 23 00-1020	WK		8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	6,205.60	
			For Equipment Without Operator, Deduct	-4,951.50	
			For Propane Instead Of Gas Or Diesel, Add	250.82	
01 22 23 00-1021	MO		8,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	24,483.67	
			For Equipment Without Operator, Deduct	-21,456.52	
			For Propane Instead Of Gas Or Diesel, Add	605.43	
			For >6 Months (>26 Weeks), Deduct	-121.09	

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01 22 23 00-1022	DAY	12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,561.13	
		<i>For Equipment Without Operator, Deduct</i>	-990.30	
		<i>For Propane Instead Of Gas Or Diesel, Add</i>	114.17	
		<i>For Half Day Usage, Deduct</i>	-673.53	
01 22 23 00-1023	WK	12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	6,352.64	
		<i>For Equipment Without Operator, Deduct</i>	-4,951.50	
		<i>For Propane Instead Of Gas Or Diesel, Add</i>	280.23	
01 22 23 00-1024	MO	12,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	25,002.61	
		<i>For Equipment Without Operator, Deduct</i>	-21,456.52	
		<i>For Propane Instead Of Gas Or Diesel, Add</i>	709.22	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-141.84	
01 22 23 00-1025	DAY	15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,716.82	
		<i>For Equipment Without Operator, Deduct</i>	-990.30	
		<i>For Propane Instead Of Gas Or Diesel, Add</i>	145.30	
		<i>For Half Day Usage, Deduct</i>	-722.19	
01 22 23 00-1026	WK	15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	6,603.46	
		<i>For Equipment Without Operator, Deduct</i>	-4,951.50	
		<i>For Propane Instead Of Gas Or Diesel, Add</i>	330.39	
01 22 23 00-1027	MO	15,000 Lb. Capacity, Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	25,435.06	
		<i>For Equipment Without Operator, Deduct</i>	-21,456.52	
		<i>For Propane Instead Of Gas Or Diesel, Add</i>	795.71	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-159.14	
01 22 23 00-1028 Chain Hoists (01 22 23 00-0914)				
Note: Includes delivery to job site and pick-up when complete.				
01 22 23 00-1029	DAY	1 Ton, 20' Lift, Manual Chain Hoist	12.52	
		<i>For Half Day Usage, Deduct</i>	-3.91	
01 22 23 00-1030	WK	1 Ton, 20' Lift, Manual Chain Hoist	32.55	
01 22 23 00-1031	MO	1 Ton, 20' Lift, Manual Chain Hoist	96.40	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-3.86	
01 22 23 00-1032	DAY	3 Ton, 20' Lift, Manual Chain Hoist	35.06	
		<i>For Half Day Usage, Deduct</i>	-10.96	
01 22 23 00-1033	WK	3 Ton, 20' Lift, Manual Chain Hoist	82.63	
01 22 23 00-1034	MO	3 Ton, 20' Lift, Manual Chain Hoist	231.62	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-9.26	
01 22 23 00-1035	DAY	5 Ton, 20' Lift, Manual Chain Hoist	45.07	
		<i>For Half Day Usage, Deduct</i>	-14.08	
01 22 23 00-1036	WK	5 Ton, 20' Lift, Manual Chain Hoist	121.44	
01 22 23 00-1037	MO	5 Ton, 20' Lift, Manual Chain Hoist	338.04	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-13.52	
01 22 23 00-1038	DAY	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	88.89	
		<i>For Half Day Usage, Deduct</i>	-27.78	
01 22 23 00-1039	WK	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	231.62	
01 22 23 00-1040	MO	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	626.00	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-25.04	
01 22 23 00-1041	DAY	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	90.14	
		<i>For Half Day Usage, Deduct</i>	-28.17	
01 22 23 00-1042	WK	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	241.01	
01 22 23 00-1043	MO	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	657.30	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-26.29	
01 22 23 00-1044	DAY	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	92.65	
		<i>For Half Day Usage, Deduct</i>	-28.95	
01 22 23 00-1045	WK	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	259.79	
01 22 23 00-1046	MO	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	719.90	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-28.80	
01 22 23 00-1047 Roof Swing Hoist (01 22 23 00-0914)				
Note: Includes delivery to job site and pick-up when complete.				
01 22 23 00-1048	DAY	Up To 400 Lb., Manual Swing Roof Hoist	103.38	
		<i>For Half Day Usage, Deduct</i>	-32.31	
01 22 23 00-1049	WK	Up To 400 Lb., Manual Swing Roof Hoist	361.81	
01 22 23 00-1050	MO	Up To 400 Lb., Manual Swing Roof Hoist	1,240.50	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-49.62	
01 22 23 00-1051 Truck Mounted Digger Derrick (01 22 23 00-0914)				
Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.				
01 22 23 00-1052	DAY	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,741.29	
		Note: Includes lifting boom, grapple arm and auger drill.		
		<i>For Equipment Without Operator, Deduct</i>	-1,061.47	
		<i>For Half Day Usage, Deduct</i>	-743.18	
01 22 23 00-1053	WK	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	7,346.79	
		Note: Includes lifting boom, grapple arm and auger drill.		
		<i>For Equipment Without Operator, Deduct</i>	-5,307.33	
01 22 23 00-1054	MO	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	28,436.98	
		Note: Includes lifting boom, grapple arm and auger drill.		
		<i>For Equipment Without Operator, Deduct</i>	-22,998.42	
		<i>For >6 Months (>26 Weeks), Deduct</i>	-217.54	



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01 22 23 00-1055	DAY	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,881.02	
		Note: Includes lifting boom, grapple arm and auger drill.		
		For Equipment Without Operator, Deduct	-1,061.47	
		For Half Day Usage, Deduct	-786.84	
01 22 23 00-1056	WK	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	7,765.98	
		Note: Includes lifting boom, grapple arm and auger drill.		
		For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-1057	MO	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	29,554.83	
		Note: Includes lifting boom, grapple arm and auger drill.		
		For Equipment Without Operator, Deduct	-22,998.42	
		For >6 Months (>26 Weeks), Deduct	-262.26	
01 22 23 00-1058	DAY	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	2,744.48	
		Note: Includes lifting boom, grapple arm and auger drill.		
		For Equipment Without Operator, Deduct	-1,061.47	
		For Half Day Usage, Deduct	-1,056.68	
01 22 23 00-1059	WK	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	10,356.36	
		Note: Includes lifting boom, grapple arm and auger drill.		
		For Equipment Without Operator, Deduct	-5,307.33	
01 22 23 00-1060	MO	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	36,462.50	
		Note: Includes lifting boom, grapple arm and auger drill.		
		For Equipment Without Operator, Deduct	-22,998.42	
		For >6 Months (>26 Weeks), Deduct	-538.56	
01 22 23 00-1061	Pumping Equipment (01 22 23)			
01 22 23 00-1062	Gas Powered Portable Centrifugal Pumps (01 22 23 00-1061)			
	Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1086 for larger diameter pumps.			
01 22 23 00-1063	DAY	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	82.98	
		For >8 To 16 Hours Usage Per Day, Add	33.19	
		For >16 To 24 Hours Usage Per Day, Add	66.38	
01 22 23 00-1064	WK	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	186.70	
		For >40 To 80 Hours Usage Per Week, Add	74.68	
		For >80 Hours Usage Per Week, Add	149.36	
01 22 23 00-1065	MO	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	497.88	
		For >160 To 320 Hours Usage Per Month, Add	199.15	
		For >320 Hours Usage Per Month, Add	398.30	
		For >6 Months (>26 Weeks), Deduct	-19.92	
01 22 23 00-1066	DAY	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	99.58	
		For >8 To 16 Hours Usage Per Day, Add	39.83	
		For >16 To 24 Hours Usage Per Day, Add	79.66	
01 22 23 00-1067	WK	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	224.05	
		For >40 To 80 Hours Usage Per Week, Add	89.62	
		For >80 Hours Usage Per Week, Add	179.24	
01 22 23 00-1068	MO	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	597.46	
		For >160 To 320 Hours Usage Per Month, Add	238.98	
		For >320 Hours Usage Per Month, Add	477.97	
		For >6 Months (>26 Weeks), Deduct	-23.90	
01 22 23 00-1069	Gas Powered Portable Diaphragm Pumps (01 22 23 00-1061)			
	Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1070	DAY	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	95.43	
		For >8 To 16 Hours Usage Per Day, Add	38.17	
		For >16 To 24 Hours Usage Per Day, Add	76.34	
01 22 23 00-1071	WK	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	269.68	
		For >40 To 80 Hours Usage Per Week, Add	107.87	
		For >80 Hours Usage Per Week, Add	215.74	
01 22 23 00-1072	MO	3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	684.58	
		For >160 To 320 Hours Usage Per Month, Add	273.83	
		For >320 Hours Usage Per Month, Add	547.66	
		For >6 Months (>26 Weeks), Deduct	-27.38	
01 22 23 00-1073	DAY	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	116.17	
		For >8 To 16 Hours Usage Per Day, Add	46.47	
		For >16 To 24 Hours Usage Per Day, Add	92.94	
01 22 23 00-1074	WK	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	311.18	
		For >40 To 80 Hours Usage Per Week, Add	124.47	
		For >80 Hours Usage Per Week, Add	248.94	
01 22 23 00-1075	MO	5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	881.66	
		For >160 To 320 Hours Usage Per Month, Add	352.66	
		For >320 Hours Usage Per Month, Add	705.33	
		For >6 Months (>26 Weeks), Deduct	-35.27	
01 22 23 00-1076	Gas Powered Portable Trash Pumps (01 22 23 00-1061)			
	Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1077	DAY	12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	120.32	
		For >8 To 16 Hours Usage Per Day, Add	48.13	
		For >16 To 24 Hours Usage Per Day, Add	96.26	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1078 WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	248.94	
For >40 To 80 Hours Usage Per Week, Add	99.58	
For >80 Hours Usage Per Week, Add	199.15	
01 22 23 00-1079 MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	746.82	
For >160 To 320 Hours Usage Per Month, Add	298.73	
For >320 Hours Usage Per Month, Add	597.46	
For >6 Months (>26 Weeks), Deduct	-29.87	
01 22 23 00-1080 DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	120.32	
For >8 To 16 Hours Usage Per Day, Add	48.13	
For >16 To 24 Hours Usage Per Day, Add	96.26	
01 22 23 00-1081 WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	321.55	
For >40 To 80 Hours Usage Per Week, Add	128.62	
For >80 Hours Usage Per Week, Add	257.24	
01 22 23 00-1082 MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	881.66	
For >160 To 320 Hours Usage Per Month, Add	352.66	
For >320 Hours Usage Per Month, Add	705.33	
For >6 Months (>26 Weeks), Deduct	-35.27	
01 22 23 00-1083 DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	190.85	
For >8 To 16 Hours Usage Per Day, Add	76.34	
For >16 To 24 Hours Usage Per Day, Add	152.68	
01 22 23 00-1084 WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	539.37	
For >40 To 80 Hours Usage Per Week, Add	215.75	
For >80 Hours Usage Per Week, Add	431.50	
01 22 23 00-1085 MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,566.25	
For >160 To 320 Hours Usage Per Month, Add	626.50	
For >320 Hours Usage Per Month, Add	1,253.00	
For >6 Months (>26 Weeks), Deduct	-62.65	
01 22 23 00-1086 Diesel Powered Portable Trash Pumps (01 22 23 00-1061)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1087 DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	373.41	
For >8 To 16 Hours Usage Per Day, Add	149.36	
For >16 To 24 Hours Usage Per Day, Add	298.73	
01 22 23 00-1088 WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	1,016.50	
For >40 To 80 Hours Usage Per Week, Add	406.60	
For >80 Hours Usage Per Week, Add	813.20	
01 22 23 00-1089 MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	4,429.06	
For >160 To 320 Hours Usage Per Month, Add	1,771.62	
For >320 Hours Usage Per Month, Add	3,543.25	
For >6 Months (>26 Weeks), Deduct	-177.16	
01 22 23 00-1090 DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	570.49	
For >8 To 16 Hours Usage Per Day, Add	228.20	
For >16 To 24 Hours Usage Per Day, Add	456.39	
01 22 23 00-1091 WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,493.64	
For >40 To 80 Hours Usage Per Week, Add	597.46	
For >80 Hours Usage Per Week, Add	1,194.91	
01 22 23 00-1092 MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,972.67	
For >160 To 320 Hours Usage Per Month, Add	1,589.07	
For >320 Hours Usage Per Month, Add	3,178.14	
For >6 Months (>26 Weeks), Deduct	-158.91	
01 22 23 00-1093 DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	775.86	
For >8 To 16 Hours Usage Per Day, Add	310.34	
For >16 To 24 Hours Usage Per Day, Add	620.69	
01 22 23 00-1094 WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	2,076.57	
For >40 To 80 Hours Usage Per Week, Add	830.63	
For >80 Hours Usage Per Week, Add	1,661.26	
01 22 23 00-1095 MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	5,555.51	
For >160 To 320 Hours Usage Per Month, Add	2,222.20	
For >320 Hours Usage Per Month, Add	4,444.41	
For >6 Months (>26 Weeks), Deduct	-222.22	
01 22 23 00-1096 DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	1,004.06	
For >8 To 16 Hours Usage Per Day, Add	401.62	
For >16 To 24 Hours Usage Per Day, Add	803.25	
01 22 23 00-1097 WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,564.08	
For >40 To 80 Hours Usage Per Week, Add	1,025.63	
For >80 Hours Usage Per Week, Add	2,051.26	
01 22 23 00-1098 MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	7,530.44	
For >160 To 320 Hours Usage Per Month, Add	3,012.18	
For >320 Hours Usage Per Month, Add	6,024.35	
For >6 Months (>26 Weeks), Deduct	-301.22	
01 22 23 00-1099 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-1061)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1100 DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	533.15	
For >8 To 16 Hours Usage Per Day, Add	213.26	
For >16 To 24 Hours Usage Per Day, Add	426.52	
01 22 23 00-1101 WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,213.58	
For >40 To 80 Hours Usage Per Week, Add	485.43	
For >80 Hours Usage Per Week, Add	970.86	
01 22 23 00-1102 MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,783.89	
For >160 To 320 Hours Usage Per Month, Add	1,513.56	
For >320 Hours Usage Per Month, Add	3,027.11	
For >6 Months (>26 Weeks), Deduct	-151.36	



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01 22 23 00-1103	DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	653.47		
	For >8 To 16 Hours Usage Per Day, Add	261.39		
	For >16 To 24 Hours Usage Per Day, Add	522.78		
01 22 23 00-1104	WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,628.48		
	For >40 To 80 Hours Usage Per Week, Add	651.39		
	For >80 Hours Usage Per Week, Add	1,302.78		
01 22 23 00-1105	MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	4,429.06		
	For >160 To 320 Hours Usage Per Month, Add	1,771.62		
	For >320 Hours Usage Per Month, Add	3,543.25		
	For >6 Months (>26 Weeks), Deduct	-177.16		
01 22 23 00-1106	DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	788.31		
	For >8 To 16 Hours Usage Per Day, Add	315.32		
	For >16 To 24 Hours Usage Per Day, Add	630.65		
01 22 23 00-1107	WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,331.74		
	For >40 To 80 Hours Usage Per Week, Add	932.70		
	For >80 Hours Usage Per Week, Add	1,865.39		
01 22 23 00-1108	MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	6,503.56		
	For >160 To 320 Hours Usage Per Month, Add	2,601.42		
	For >320 Hours Usage Per Month, Add	5,202.85		
	For >6 Months (>26 Weeks), Deduct	-260.14		
01 22 23 00-1109	DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,186.61		
	For >8 To 16 Hours Usage Per Day, Add	474.64		
	For >16 To 24 Hours Usage Per Day, Add	949.29		
01 22 23 00-1110	WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,030.84		
	For >40 To 80 Hours Usage Per Week, Add	1,212.34		
	For >80 Hours Usage Per Week, Add	2,424.67		
01 22 23 00-1111	MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	8,899.60		
	For >160 To 320 Hours Usage Per Month, Add	3,559.84		
	For >320 Hours Usage Per Month, Add	7,119.68		
	For >6 Months (>26 Weeks), Deduct	-355.98		
01 22 23 00-1112	3 Phase Electric Submersible Pumps (01 22 23 00-1061)			
	Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1113	DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	207.45		
01 22 23 00-1114	WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	518.62		
01 22 23 00-1115	MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,555.88		
	For >6 Months (>26 Weeks), Deduct	-62.24		
01 22 23 00-1116	DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	273.83		
01 22 23 00-1117	WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	684.58		
01 22 23 00-1118	MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	2,053.76		
	For >6 Months (>26 Weeks), Deduct	-82.15		
01 22 23 00-1119	Suction Hose With Couplings (01 22 23 00-1061)			
	Note: Includes delivery, set-up, and removal.			
01 22 23 00-1120	DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	6.43		
	For Half Day Usage, Deduct	-2.01		
01 22 23 00-1121	WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	16.08		
01 22 23 00-1122	MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	49.32		
	For >6 Months (>26 Weeks), Deduct	-1.97		
01 22 23 00-1123	DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings	17.15		
	For Half Day Usage, Deduct	-5.36		
01 22 23 00-1124	WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings	43.96		
01 22 23 00-1125	MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings	134.01		
	For >6 Months (>26 Weeks), Deduct	-5.36		
01 22 23 00-1126	DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings	25.73		
	For Half Day Usage, Deduct	-8.04		
01 22 23 00-1127	WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings	65.40		
01 22 23 00-1128	MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings	198.34		
	For >6 Months (>26 Weeks), Deduct	-7.93		
01 22 23 00-1129	DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings	32.16		
	For Half Day Usage, Deduct	-10.05		
01 22 23 00-1130	WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings	80.41		
01 22 23 00-1131	MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings	235.86		
	For >6 Months (>26 Weeks), Deduct	-9.43		
01 22 23 00-1132	DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings	75.05		
	For Half Day Usage, Deduct	-23.45		
01 22 23 00-1133	WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings	192.98		
01 22 23 00-1134	MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings	568.21		
	For >6 Months (>26 Weeks), Deduct	-22.73		
01 22 23 00-1135	DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings	100.78		
	For Half Day Usage, Deduct	-31.49		
01 22 23 00-1136	WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings	219.78		
01 22 23 00-1137	MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings	659.34		
	For >6 Months (>26 Weeks), Deduct	-26.37		

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01 22 23 00-1138		Discharge Hose With Couplings (01 22 23 00-1061)	
		Note: Includes delivery, set-up, and removal.	
01 22 23 00-1139	DAY	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.43
		For Half Day Usage, Deduct	-2.01
01 22 23 00-1140	WK	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	16.08
01 22 23 00-1141	MO	1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	49.32
		For >6 Months (>26 Weeks), Deduct	-1.97
01 22 23 00-1142	DAY	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	7.50
		For Half Day Usage, Deduct	-2.34
01 22 23 00-1143	WK	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	18.23
01 22 23 00-1144	MO	2" Inside Diameter, 50' Length, Discharge Hose With Couplings	56.82
		For >6 Months (>26 Weeks), Deduct	-2.27
01 22 23 00-1145	DAY	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	8.58
		For Half Day Usage, Deduct	-2.68
01 22 23 00-1146	WK	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	21.44
01 22 23 00-1147	MO	3" Inside Diameter, 50' Length, Discharge Hose With Couplings	65.40
		For >6 Months (>26 Weeks), Deduct	-2.62
01 22 23 00-1148	DAY	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	22.51
		For Half Day Usage, Deduct	-7.03
01 22 23 00-1149	WK	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	57.89
01 22 23 00-1150	MO	4" Inside Diameter, 50' Length, Discharge Hose With Couplings	166.18
		For >6 Months (>26 Weeks), Deduct	-6.65
01 22 23 00-1151	DAY	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	27.87
		For Half Day Usage, Deduct	-8.71
01 22 23 00-1152	WK	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	76.12
01 22 23 00-1153	MO	6" Inside Diameter, 50' Length, Discharge Hose With Couplings	209.06
		For >6 Months (>26 Weeks), Deduct	-8.36
01 22 23 00-1154	DAY	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	21.44
		For Half Day Usage, Deduct	-6.70
01 22 23 00-1155	WK	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	53.60
01 22 23 00-1156	MO	10" Inside Diameter, 10' Length, Discharge Hose With Couplings	160.82
		For >6 Months (>26 Weeks), Deduct	-6.43
01 22 23 00-1157	DAY	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	54.68
		For Half Day Usage, Deduct	-17.09
01 22 23 00-1158	WK	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	139.37
01 22 23 00-1159	MO	12" Inside Diameter, 10' Length, Discharge Hose With Couplings	412.76
		For >6 Months (>26 Weeks), Deduct	-16.51
01 22 23 00-1160		Hydraulic Submersible Pumps (01 22 23 00-1061)	
		Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-1161		Hydraulic Submersible Pumps (01 22 23 00-1160)	
		Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-1162	DAY	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	136.92
		For >8 To 16 Hours Usage Per Day, Add	54.77
		For >16 To 24 Hours Usage Per Day, Add	109.54
01 22 23 00-1163	WK	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	367.19
		For >40 To 80 Hours Usage Per Week, Add	146.88
		For >80 Hours Usage Per Week, Add	293.75
01 22 23 00-1164	MO	60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	1,026.88
		For >160 To 320 Hours Usage Per Month, Add	410.75
		For >320 Hours Usage Per Month, Add	821.50
		For >6 Months (>26 Weeks), Deduct	-41.08
01 22 23 00-1165	DAY	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	174.26
		For >8 To 16 Hours Usage Per Day, Add	69.70
		For >16 To 24 Hours Usage Per Day, Add	139.41
01 22 23 00-1166	WK	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	448.09
		For >40 To 80 Hours Usage Per Week, Add	179.24
		For >80 Hours Usage Per Week, Add	358.47
01 22 23 00-1167	MO	132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	1,369.17
		For >160 To 320 Hours Usage Per Month, Add	547.67
		For >320 Hours Usage Per Month, Add	1,095.34
		For >6 Months (>26 Weeks), Deduct	-54.77
01 22 23 00-1168		Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1160)	
		Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-1169	DAY	100 HP, Hydraulic Submersible Pump Diesel Power Pack	316.36
		For >8 To 16 Hours Usage Per Day, Add	126.54
		For >16 To 24 Hours Usage Per Day, Add	253.09
01 22 23 00-1170	WK	100 HP, Hydraulic Submersible Pump Diesel Power Pack	943.90
		For >40 To 80 Hours Usage Per Week, Add	377.56
		For >80 Hours Usage Per Week, Add	755.12
01 22 23 00-1171	MO	100 HP, Hydraulic Submersible Pump Diesel Power Pack	2,489.40
		For >160 To 320 Hours Usage Per Month, Add	995.76
		For >320 Hours Usage Per Month, Add	1,991.52
		For >6 Months (>26 Weeks), Deduct	-99.58
01 22 23 00-1172		HDPE Pipe With Couplings (01 22 23 00-1061)	
		Note: Includes delivery, set-up, and removal.	
01 22 23 00-1173	DAY	4" x 50' HDPE Pipe With Couplings	18.42
		For Half Day Usage, Deduct	-5.76



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01 22 23 00-1174	WK		4" x 50' HDPE Pipe With Couplings.....	44.21	
01 22 23 00-1175	MO		4" x 50' HDPE Pipe With Couplings.....	136.30	
			For >6 Months (>26 Weeks), Deduct	-5.45	
01 22 23 00-1176	DAY		6" x 50' HDPE Pipe With Couplings.....	29.47	
			For Half Day Usage, Deduct	-9.21	
01 22 23 00-1177	WK		6" x 50' HDPE Pipe With Couplings.....	73.68	
01 22 23 00-1178	MO		6" x 50' HDPE Pipe With Couplings.....	224.71	
			For >6 Months (>26 Weeks), Deduct	-8.99	
01 22 23 00-1179	DAY		8" x 50' HDPE Pipe With Couplings.....	47.89	
			For Half Day Usage, Deduct	-14.97	
01 22 23 00-1180	WK		8" x 50' HDPE Pipe With Couplings.....	125.25	
01 22 23 00-1181	MO		8" x 50' HDPE Pipe With Couplings.....	372.06	
			For >6 Months (>26 Weeks), Deduct	-14.88	
01 22 23 00-1182	DAY		10" x 50' HDPE Pipe With Couplings.....	58.94	
			For Half Day Usage, Deduct	-18.42	
01 22 23 00-1183	WK		10" x 50' HDPE Pipe With Couplings.....	151.04	
01 22 23 00-1184	MO		10" x 50' HDPE Pipe With Couplings.....	460.48	
			For >6 Months (>26 Weeks), Deduct	-18.42	
01 22 23 00-1185	DAY		12" x 20' HDPE Pipe With Couplings.....	44.21	
			For Half Day Usage, Deduct	-13.82	
01 22 23 00-1186	WK		12" x 20' HDPE Pipe With Couplings.....	121.57	
01 22 23 00-1187	MO		12" x 20' HDPE Pipe With Couplings.....	368.38	
			For >6 Months (>26 Weeks), Deduct	-14.74	
01 22 23 00-1188	DAY		4" Elbow For HDPE Pipe, Quick Connect.....	44.21	
			For Half Day Usage, Deduct	-13.82	
01 22 23 00-1189	WK		4" Elbow For HDPE Pipe, Quick Connect.....	114.20	
01 22 23 00-1190	MO		4" Elbow For HDPE Pipe, Quick Connect.....	338.91	
			For >6 Months (>26 Weeks), Deduct	-13.56	
01 22 23 00-1191	DAY		6" Elbow For HDPE Pipe, Quick Connect.....	51.57	
			For Half Day Usage, Deduct	-16.12	
01 22 23 00-1192	WK		6" Elbow For HDPE Pipe, Quick Connect.....	132.62	
01 22 23 00-1193	MO		6" Elbow For HDPE Pipe, Quick Connect.....	405.22	
			For >6 Months (>26 Weeks), Deduct	-16.21	
01 22 23 00-1194	DAY		8" Elbow For HDPE Pipe, Quick Connect.....	58.94	
			For Half Day Usage, Deduct	-18.42	
01 22 23 00-1195	WK		8" Elbow For HDPE Pipe, Quick Connect.....	151.04	
01 22 23 00-1196	MO		8" Elbow For HDPE Pipe, Quick Connect.....	460.48	
			For >6 Months (>26 Weeks), Deduct	-18.42	
01 22 23 00-1197	DAY		10" Elbow For HDPE Pipe, Quick Connect.....	73.68	
			For Half Day Usage, Deduct	-23.03	
01 22 23 00-1198	WK		10" Elbow For HDPE Pipe, Quick Connect.....	187.87	
01 22 23 00-1199	MO		10" Elbow For HDPE Pipe, Quick Connect.....	570.99	
			For >6 Months (>26 Weeks), Deduct	-22.84	
01 22 23 00-1200	DAY		12" Elbow For HDPE Pipe, Quick Connect.....	73.68	
			For Half Day Usage, Deduct	-23.03	
01 22 23 00-1201	WK		12" Elbow For HDPE Pipe, Quick Connect.....	187.87	
01 22 23 00-1202	MO		12" Elbow For HDPE Pipe, Quick Connect.....	570.99	
			For >6 Months (>26 Weeks), Deduct	-22.84	
01 22 23 00-1203	DAY		4" Tee For HDPE Pipe, Quick Connect.....	44.21	
			For Half Day Usage, Deduct	-13.82	
01 22 23 00-1204	WK		4" Tee For HDPE Pipe, Quick Connect.....	114.20	
01 22 23 00-1205	MO		4" Tee For HDPE Pipe, Quick Connect.....	338.91	
			For >6 Months (>26 Weeks), Deduct	-13.56	
01 22 23 00-1206	DAY		6" Tee For HDPE Pipe, Quick Connect.....	58.94	
			For Half Day Usage, Deduct	-18.42	
01 22 23 00-1207	WK		6" Tee For HDPE Pipe, Quick Connect.....	151.04	
01 22 23 00-1208	MO		6" Tee For HDPE Pipe, Quick Connect.....	460.48	
			For >6 Months (>26 Weeks), Deduct	-18.42	
01 22 23 00-1209	DAY		8" Tee For HDPE Pipe, Quick Connect.....	73.68	
			For Half Day Usage, Deduct	-23.03	
01 22 23 00-1210	WK		8" Tee For HDPE Pipe, Quick Connect.....	187.87	
01 22 23 00-1211	MO		8" Tee For HDPE Pipe, Quick Connect.....	570.99	
			For >6 Months (>26 Weeks), Deduct	-22.84	
01 22 23 00-1212	DAY		10" Tee For HDPE Pipe, Quick Connect.....	88.41	
			For Half Day Usage, Deduct	-27.63	
01 22 23 00-1213	WK		10" Tee For HDPE Pipe, Quick Connect.....	224.71	
01 22 23 00-1214	MO		10" Tee For HDPE Pipe, Quick Connect.....	681.50	
			For >6 Months (>26 Weeks), Deduct	-27.26	
01 22 23 00-1215	DAY		12" Tee For HDPE Pipe, Quick Connect.....	88.41	
			For Half Day Usage, Deduct	-27.63	
01 22 23 00-1216	WK		12" Tee For HDPE Pipe, Quick Connect.....	224.71	
01 22 23 00-1217	MO		12" Tee For HDPE Pipe, Quick Connect.....	681.50	
			For >6 Months (>26 Weeks), Deduct	-27.26	
01 22 23 00-1218	DAY		4" Cap For HDPE Pipe, Quick Connect.....	7.37	
			For Half Day Usage, Deduct	-2.30	
01 22 23 00-1219	WK		4" Cap For HDPE Pipe, Quick Connect.....	22.10	
01 22 23 00-1220	MO		4" Cap For HDPE Pipe, Quick Connect.....	66.31	
			For >6 Months (>26 Weeks), Deduct	-2.65	
01 22 23 00-1221	DAY		6" Cap For HDPE Pipe, Quick Connect.....	7.37	
			For Half Day Usage, Deduct	-2.30	
01 22 23 00-1222	WK		6" Cap For HDPE Pipe, Quick Connect.....	22.10	
01 22 23 00-1223	MO		6" Cap For HDPE Pipe, Quick Connect.....	66.31	
			For >6 Months (>26 Weeks), Deduct	-2.65	

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01 22 23 00-1224 DAY 8" Cap For HDPE Pipe, Quick Connect.....	7.37	
For Half Day Usage, Deduct	-2.30	
01 22 23 00-1225 WK 8" Cap For HDPE Pipe, Quick Connect.....	22.10	
01 22 23 00-1226 MO 8" Cap For HDPE Pipe, Quick Connect.....	66.31	
For >6 Months (>26 Weeks), Deduct	-2.65	
01 22 23 00-1227 DAY 10" Cap For HDPE Pipe, Quick Connect.....	7.37	
For Half Day Usage, Deduct	-2.30	
01 22 23 00-1228 WK 10" Cap For HDPE Pipe, Quick Connect.....	22.10	
01 22 23 00-1229 MO 10" Cap For HDPE Pipe, Quick Connect.....	66.31	
For >6 Months (>26 Weeks), Deduct	-2.65	
01 22 23 00-1230 DAY 12" Cap For HDPE Pipe, Quick Connect.....	7.37	
For Half Day Usage, Deduct	-2.30	
01 22 23 00-1231 WK 12" Cap For HDPE Pipe, Quick Connect.....	22.10	
01 22 23 00-1232 MO 12" Cap For HDPE Pipe, Quick Connect.....	66.31	
For >6 Months (>26 Weeks), Deduct	-2.65	
01 22 23 00-1233 DAY 4" Wye For HDPE Pipe, Quick Connect.....	22.10	
For Half Day Usage, Deduct	-6.91	
01 22 23 00-1234 WK 4" Wye For HDPE Pipe, Quick Connect.....	55.26	
01 22 23 00-1235 MO 4" Wye For HDPE Pipe, Quick Connect.....	169.45	
For >6 Months (>26 Weeks), Deduct	-6.78	
01 22 23 00-1236 DAY 6" Wye For HDPE Pipe, Quick Connect.....	25.79	
For Half Day Usage, Deduct	-8.06	
01 22 23 00-1237 WK 6" Wye For HDPE Pipe, Quick Connect.....	66.31	
01 22 23 00-1238 MO 6" Wye For HDPE Pipe, Quick Connect.....	202.61	
For >6 Months (>26 Weeks), Deduct	-8.10	
01 22 23 00-1239 DAY 8" Wye For HDPE Pipe, Quick Connect.....	44.21	
For Half Day Usage, Deduct	-13.82	
01 22 23 00-1240 WK 8" Wye For HDPE Pipe, Quick Connect.....	114.20	
01 22 23 00-1241 MO 8" Wye For HDPE Pipe, Quick Connect.....	338.91	
For >6 Months (>26 Weeks), Deduct	-13.56	
01 22 23 00-1242 DAY 10" Wye For HDPE Pipe, Quick Connect.....	66.31	
For Half Day Usage, Deduct	-20.72	
01 22 23 00-1243 WK 10" Wye For HDPE Pipe, Quick Connect.....	169.45	
01 22 23 00-1244 MO 10" Wye For HDPE Pipe, Quick Connect.....	515.73	
For >6 Months (>26 Weeks), Deduct	-20.63	
01 22 23 00-1245 DAY 12" Wye For HDPE Pipe, Quick Connect.....	66.31	
For Half Day Usage, Deduct	-20.72	
01 22 23 00-1246 WK 12" Wye For HDPE Pipe, Quick Connect.....	169.45	
01 22 23 00-1247 MO 12" Wye For HDPE Pipe, Quick Connect.....	515.73	
For >6 Months (>26 Weeks), Deduct	-20.63	
01 22 23 00-1248 Truck And Trailer Equipment (01 22 23)		
01 22 23 00-1249 Trucks (01 22 23 00-1248)		
Note: Includes driver, delivery to job site and pick-up when complete.		
01 22 23 00-1250 Flat Bed Trucks (01 22 23 00-1249)		
Note: Includes hydraulic tilt bed.		
01 22 23 00-1251 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	1,103.88	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-494.87	
01 22 23 00-1252 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	4,795.41	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1253 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	19,337.64	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-80.62	
01 22 23 00-1254 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	1,235.51	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-536.00	
01 22 23 00-1255 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	5,132.72	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1256 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	20,201.47	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-115.18	
01 22 23 00-1257 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	1,329.96	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-565.52	
01 22 23 00-1258 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	5,493.72	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1259 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver.....	21,575.38	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-170.13	
01 22 23 00-1260 Light Off-Road Utility Passenger Vehicles (01 22 23 00-1249)		
01 22 23 00-1261 DAY 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	309.84	
For Half Day Usage, Deduct	-96.83	
01 22 23 00-1262 WK 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	716.50	
01 22 23 00-1263 MO 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	1,549.20	
For >6 Months (>26 Weeks), Deduct	-61.97	
01 22 23 00-1264 DAY 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	319.52	
For Half Day Usage, Deduct	-99.85	
01 22 23 00-1265 WK 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	745.55	



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01 22 23 00-1266	MO		4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle..... <i>For >6 Months (>26 Weeks), Deduct</i>	1,646.02 -65.84	
01 22 23 00-1267 Light And Heavy Duty Trucks (01 22 23 00-1249)					
01 22 23 00-1268	DAY		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,050.74 -792.29 -476.91	
01 22 23 00-1269	WK		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	4,809.48 -3,961.45	
01 22 23 00-1270	MO		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	18,943.11 -17,166.28 -71.07	
01 22 23 00-1271	DAY		3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,099.20 -792.29 -492.05	
01 22 23 00-1272	WK		3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,954.86 -3,961.45	
01 22 23 00-1273	MO		3/4 Ton, 4 x 4 Heavy Duty Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	19,266.17 -17,166.28 -84.00	
01 22 23 00-1274 Boom Trucks (01 22 23 00-1249)					
01 22 23 00-1275	DAY		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,366.32 -799.48 -576.88	
01 22 23 00-1276	WK		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	5,473.31 -3,997.39	
01 22 23 00-1277	MO		3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	21,065.30 -17,322.02 -149.73	
01 22 23 00-1278 Rear Dump Trucks (01 22 23 00-1249)					
01 22 23 00-1279	DAY		2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,175.76 -799.48 -517.33	
01 22 23 00-1280	WK		2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,991.26 -3,997.39	
01 22 23 00-1281	MO		2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	20,364.98 -17,322.02 -121.72	
01 22 23 00-1282	DAY		3 To 4 CY Rear Dump Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,300.50 -799.48 -556.31	
01 22 23 00-1283	WK		3 To 4 CY Rear Dump Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	5,377.77 -3,997.39	
01 22 23 00-1284	MO		3 To 4 CY Rear Dump Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	20,900.77 -17,322.02 -143.15	
01 22 23 00-1285	DAY		5 To 6 CY Rear Dump Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	1,372.08 -799.48 -578.68	
01 22 23 00-1286	WK		5 To 6 CY Rear Dump Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	5,531.14 -3,997.39	
01 22 23 00-1287	MO		5 To 6 CY Rear Dump Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	21,003.02 -17,322.02 -147.24	
01 22 23 00-1288	DAY		12 To 14 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	2,220.76 -799.48 -843.89	
01 22 23 00-1289	WK		12 To 14 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,279.61 -3,997.39	
01 22 23 00-1290	MO		12 To 14 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	25,911.02 -17,322.02 -343.56	
01 22 23 00-1291	DAY		18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	2,362.88 -799.48 -888.30	
01 22 23 00-1292	WK		18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,607.84 -3,997.39	
01 22 23 00-1293	MO		18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For >6 Months (>26 Weeks), Deduct</i>	26,769.92 -17,322.02 -377.92	
01 22 23 00-1294 Under-Bridge Inspection Trucks (01 22 23 00-1249)					
01 22 23 00-1295	DAY		40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,747.20 -799.48 -1,633.40	
01 22 23 00-1296	WK		40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	21,602.07 -3,997.39	

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01 22 23 00-1297 MO 40' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	79,727.66	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-2,496.23	
01 22 23 00-1298 DAY 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	5,280.67	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-1,800.11	
01 22 23 00-1299 WK 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	22,669.01	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1300 MO 50' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	83,753.83	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-2,657.27	
01 22 23 00-1301 DAY 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	5,600.76	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-1,900.14	
01 22 23 00-1302 WK 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	24,269.44	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1303 MO 60' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	87,780.01	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-2,818.32	
01 22 23 00-1304 DAY 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	6,987.79	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-2,333.59	
01 22 23 00-1305 WK 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	30,671.14	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1306 MO 75' Reach Under Bridge Inspection Truck (UBIT) With Full-Time Truck Driver.....	107,910.85	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-3,623.55	
01 22 23 00-1307 Vacuum Trucks (01 22 23 00-1249)		
01 22 23 00-1308 DAY 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	1,162.29	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-513.12	
01 22 23 00-1309 WK 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	5,078.72	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1310 MO 1,500 To 2,000 Gallon Vacuum Truck With Full-Time Truck Driver	20,516.21	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-127.77	
01 22 23 00-1311 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	2,210.53	
For Equipment Without Operator, Deduct	-799.48	
For Half Day Usage, Deduct	-840.69	
01 22 23 00-1312 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	8,246.90	
For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1313 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver	29,861.96	
For Equipment Without Operator, Deduct	-17,322.02	
For >6 Months (>26 Weeks), Deduct	-501.60	
01 22 23 00-1314 Water Trucks (01 22 23 00-1249)		
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1138 for additional discharge hose, 01 22 23 00-1353 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.		
01 22 23 00-1315 DAY 2,000 Gallon Water Truck With Full-Time Driver	1,439.74	
For Equipment Without Operator, Deduct	-799.48	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
For Half Day Usage, Deduct	-599.82	
01 22 23 00-1316 WK 2,000 Gallon Water Truck With Full-Time Driver	5,683.41	
For Equipment Without Operator, Deduct	-3,997.39	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
01 22 23 00-1317 MO 2,000 Gallon Water Truck With Full-Time Driver	21,305.86	
For Equipment Without Operator, Deduct	-17,322.02	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
For >6 Months (>26 Weeks), Deduct	-159.35	
01 22 23 00-1318 DAY 2,500 To 3,000 Gallon Water Truck With Full-Time Truck Driver	1,553.56	
For Equipment Without Operator, Deduct	-799.48	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
For Half Day Usage, Deduct	-635.39	
01 22 23 00-1319 WK 2,500 To 3,000 Gallon Water Truck With Full-Time Truck Driver	6,473.06	
For Equipment Without Operator, Deduct	-3,997.39	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
01 22 23 00-1320 MO 2,500 To 3,000 Gallon Water Truck With Full-Time Truck Driver	23,489.86	
For Equipment Without Operator, Deduct	-17,322.02	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
For >6 Months (>26 Weeks), Deduct	-246.71	
01 22 23 00-1321 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	1,752.76	
For Equipment Without Operator, Deduct	-799.48	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
For Half Day Usage, Deduct	-697.64	
01 22 23 00-1322 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	6,622.46	
For Equipment Without Operator, Deduct	-3,997.39	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
01 22 23 00-1323 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Truck Driver	23,724.62	
For Equipment Without Operator, Deduct	-17,322.02	
For Each 1,000 Gallon Of Purchased Water, Add	14.94	
For >6 Months (>26 Weeks), Deduct	-256.10	



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01 22 23 00-1324			Asphalt Distribution Trucks (01 22 23 00-1249)		
01 22 23 00-1325	DAY		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	2,209.59	
			<i>For Equipment Without Operator, Deduct</i>	-799.48	
			<i>For Half Day Usage, Deduct</i>	-840.40	
01 22 23 00-1326	WK		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	8,209.61	
			<i>For Equipment Without Operator, Deduct</i>	-3,997.39	
01 22 23 00-1327	MO		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver	29,774.41	
			<i>For Equipment Without Operator, Deduct</i>	-17,322.02	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-498.10	
01 22 23 00-1328			Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1249)		
01 22 23 00-1329	DAY		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	1,537.70	
			<i>For Equipment Without Operator, Deduct</i>	-792.29	
			<i>For Half Day Usage, Deduct</i>	-629.09	
01 22 23 00-1330	WK		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	6,161.37	
			<i>For Equipment Without Operator, Deduct</i>	-3,961.45	
01 22 23 00-1331	MO		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver	22,508.71	
			<i>For Equipment Without Operator, Deduct</i>	-17,166.28	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-213.70	
01 22 23 00-1332			Vacuum Sweeper Trucks For Bridge Decks (01 22 23 00-1249)		
01 22 23 00-1333	DAY		Vacuum Sweeper Truck, With Full-Time Truck Driver	2,210.53	
			<i>For Equipment Without Operator, Deduct</i>	-799.48	
			<i>For Half Day Usage, Deduct</i>	-840.69	
01 22 23 00-1334	WK		Vacuum Sweeper Truck, With Full-Time Truck Driver	8,246.90	
			<i>For Equipment Without Operator, Deduct</i>	-3,997.39	
01 22 23 00-1335	MO		Vacuum Sweeper Truck, With Full-Time Truck Driver	29,861.96	
			<i>For Equipment Without Operator, Deduct</i>	-17,322.02	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-501.60	
01 22 23 00-1336			Combination Jet/Vacuum Trucks (01 22 23 00-1249)		
01 22 23 00-1337	DAY		500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,343.09	
			<i>For Equipment Without Operator, Deduct</i>	-799.48	
			<i>For Half Day Usage, Deduct</i>	-1,194.62	
01 22 23 00-1338	WK		500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	15,904.55	
			<i>For Equipment Without Operator, Deduct</i>	-3,997.39	
01 22 23 00-1339	DAY		1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	3,786.94	
			<i>For Equipment Without Operator, Deduct</i>	-799.48	
			<i>For Half Day Usage, Deduct</i>	-1,333.32	
01 22 23 00-1340	WK		1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	18,486.57	
			<i>For Equipment Without Operator, Deduct</i>	-3,997.39	
01 22 23 00-1341	DAY		2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	4,213.72	
			<i>For Equipment Without Operator, Deduct</i>	-799.48	
			<i>For Half Day Usage, Deduct</i>	-1,466.69	
01 22 23 00-1342	WK		2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver	21,068.59	
			<i>For Equipment Without Operator, Deduct</i>	-3,997.39	
01 22 23 00-1343			Straight/Box Trucks (01 22 23 00-1249)		
01 22 23 00-1344	DAY		18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	929.47	
			Note: Includes 2,500 Lb. lift gate.		
			<i>For Equipment Without Operator, Deduct</i>	-799.48	
			<i>For Half Day Usage, Deduct</i>	-440.36	
01 22 23 00-1345	WK		18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	4,647.32	
			Note: Includes 2,500 Lb. lift gate.		
			<i>For Equipment Without Operator, Deduct</i>	-3,997.39	
01 22 23 00-1346	MO		18,000 Lb. Capacity, 24' Straight/Box Truck With Full-Time Truck Driver	19,240.56	
			Note: Includes 2,500 Lb. lift gate.		
			<i>For Equipment Without Operator, Deduct</i>	-17,322.02	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-76.74	
01 22 23 00-1347			Truck Mounted Accessories (01 22 23 00-1248)		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1348			Truck Mounted Arrow Boards (01 22 23 00-1347)		
01 22 23 00-1349	DAY		Truck Mounted Arrow Board	48.88	
			<i>For Half Day Usage, Deduct</i>	-15.28	
01 22 23 00-1350	WK		Truck Mounted Arrow Board	194.39	
01 22 23 00-1351	MO		Truck Mounted Arrow Board	693.14	
			<i>For >6 Months (>26 Weeks), Deduct</i>	-27.73	

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UNIT COST UNIT COST

01 22 23 00-1352	Trailers (01 22 23 00-1248) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1353	Water Trailers With Pump (01 22 23 00-1352)		
01 22 23 00-1354	DAY 500 To 600 Gallon Water Trailer With Pump	163.62	
	For Half Day Usage, Deduct	-51.13	
01 22 23 00-1355	WK 500 To 600 Gallon Water Trailer With Pump	419.73	
01 22 23 00-1356	MO 500 To 600 Gallon Water Trailer With Pump	1,124.01	
	For >6 Months (>26 Weeks), Deduct	-44.96	
01 22 23 00-1357	Manual Powered, Full, Rear Dump Trailer (01 22 23 00-1352)		
01 22 23 00-1358	DAY 10 CY, Manual Powered, Full, Rear Dump Trailer	231.22	
	For Half Day Usage, Deduct	-72.26	
01 22 23 00-1359	WK 10 CY, Manual Powered, Full, Rear Dump Trailer	923.13	
01 22 23 00-1360	MO 10 CY, Manual Powered, Full, Rear Dump Trailer	3,306.73	
	For >6 Months (>26 Weeks), Deduct	-132.27	
01 22 23 00-1361	DAY 13 CY, Manual Powered, Full, Rear Dump Trailer	265.70	
	For Half Day Usage, Deduct	-83.03	
01 22 23 00-1362	WK 13 CY, Manual Powered, Full, Rear Dump Trailer	1,062.81	
01 22 23 00-1363	MO 13 CY, Manual Powered, Full, Rear Dump Trailer	3,792.82	
	For >6 Months (>26 Weeks), Deduct	-151.71	
01 22 23 00-1364	DAY 16 CY, Manual Powered, Full, Rear Dump Trailer	297.80	
	For Half Day Usage, Deduct	-93.06	
01 22 23 00-1365	WK 16 CY, Manual Powered, Full, Rear Dump Trailer	1,182.27	
01 22 23 00-1366	MO 16 CY, Manual Powered, Full, Rear Dump Trailer	4,208.02	
	For >6 Months (>26 Weeks), Deduct	-168.32	
01 22 23 00-1367	Hydraulic Lift, Rear Dump Trailers (01 22 23 00-1352)		
01 22 23 00-1368	DAY 30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	266.02	
	For Half Day Usage, Deduct	-83.13	
01 22 23 00-1369	WK 30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,151.82	
01 22 23 00-1370	MO 30 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	4,313.08	
01 22 23 00-1371	DAY 40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	329.14	
	For Half Day Usage, Deduct	-102.86	
01 22 23 00-1372	WK 40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,431.75	
01 22 23 00-1373	DAY 40 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	5,343.65	
	For Half Day Usage, Deduct	-1,669.89	
01 22 23 00-1374	DAY 60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	430.42	
	For Half Day Usage, Deduct	-134.51	
01 22 23 00-1375	WK 60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,857.89	
01 22 23 00-1376	MO 60 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	6,941.22	
01 22 23 00-1377	DAY 80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	454.66	
	For Half Day Usage, Deduct	-142.08	
01 22 23 00-1378	WK 80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	1,952.38	
01 22 23 00-1379	MO 80 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	7,265.72	
01 22 23 00-1380	DAY 100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	466.43	
	For Half Day Usage, Deduct	-145.76	
01 22 23 00-1381	WK 100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	2,002.31	
01 22 23 00-1382	MO 100 Ton Capacity, 18'-20' Deck Length, Hydraulic, Rear Dump Trailer	7,474.34	
01 22 23 00-1383	Trailer Mounted Equipment (01 22 23 00-1248)		
01 22 23 00-1384	Trailer Mounted Under-Bridge Aerial Access Platform (01 22 23 00-1383) Note: Includes full-time operator. Excludes truck.		
01 22 23 00-1385	DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	3,010.98	
	For Equipment Without Operator, Deduct	-799.48	
	For Half Day Usage, Deduct	-1,090.83	
01 22 23 00-1386	WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	10,631.88	
	For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1387	MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	35,751.16	
	For Equipment Without Operator, Deduct	-17,322.02	
	For >6 Months (>26 Weeks), Deduct	-737.17	
01 22 23 00-1388	DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	3,232.13	
	For Equipment Without Operator, Deduct	-799.48	
	For Half Day Usage, Deduct	-1,159.94	
01 22 23 00-1389	WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	11,295.33	
	For Equipment Without Operator, Deduct	-3,997.39	
01 22 23 00-1390	MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	37,594.07	
	For Equipment Without Operator, Deduct	-17,322.02	
	For >6 Months (>26 Weeks), Deduct	-810.88	
01 22 23 00-1391	Trailer Mounted Bridge Stripping Buggy (01 22 23 00-1383)		
01 22 23 00-1392	DAY Trailer Mounted Bridge Overhang Stripping Buggy	250.95	
	For Half Day Usage, Deduct	-78.42	
01 22 23 00-1393	WK Trailer Mounted Bridge Overhang Stripping Buggy	752.87	
01 22 23 00-1394	MO Trailer Mounted Bridge Overhang Stripping Buggy	2,091.22	
	For >6 Months (>26 Weeks), Deduct	-83.65	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 22 23 00-1395	Portable Trailer Mounted, CCTV Camera Systems (01 22 23 00-1383) Note: Includes trailer. Excludes truck.	
01 22 23 00-1396	MO Portable Trailer Mounted, Single Camera, CCTV Camera System For >6 Months (>26 Weeks), Deduct	2,904.75 -116.19
01 22 23 00-1397	MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System For >6 Months (>26 Weeks), Deduct	5,034.90 -201.40
01 22 23 00-1398	CALTRANS Equipment Rental Rates (01 22 23) Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act. (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®)	
01 22 23 00-1399	EA CALTRANS Equipment Rental Rates, Reimbursable Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2023.pdf (Or use most current dated PDF)	1.00

01 40 Quality Requirements (01)

01 41 Regulatory Requirements (01 40)

01 41 26	Permit Requirements (01 41) See CSI section 01 22 16 00-0003 for reimbursable fees.

01 42 References (01 40)

01 42 13	Abbreviations and Acronyms (01 42) Note: For specification publishing. Review specifications for requirements.	
01 42 13 00-0001	NTE Abbreviations And Acronyms..... Note: For specification publishing. Review specifications for requirements.	0.00
01 42 16	Definitions (01 42) Note: For specification publishing. Review specifications for requirements.	
01 42 16 00-0001	NTE Definitions..... Note: For specification publishing. Review specifications for requirements.	0.00
01 42 19	Reference Standards (01 42) Note: For specification publishing. Review specifications for requirements.	
01 42 19 00-0001	NTE Reference Standards..... Note: For specification publishing. Review specifications for requirements.	0.00
01 42 21	Construction Suppliers or Venor List (01 42) Note: For specification publishing. Review specifications for requirements.	
01 42 21 00-0001	NTE Construction Suppliers or Venor List Note: For specification publishing. Review specifications for requirements.	0.00

01 45 Quality Control (01 40)

Note: Refer to section specifications for testing included with other sections.

01 45 23 Testing and Inspecting Services (01 45)

Note: For application to existing materials/site conditions or additional testing over specifications stated tests. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

01 45 23 00-0001	Soils/Aggregate Testing (01 45 23)	
01 45 23 00-0002	Field Soils Tests (01 45 23 00-0001)	
01 45 23 00-0003	EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test	353.86
01 45 23 00-0004	EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	502.26
01 45 23 00-0005	EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test	570.75
01 45 23 00-0006	EA Resistance (R) Value Soils Test, CA 301, Field Soils Test.....	456.60
01 45 23 00-0007	EA Soils Classification Test, ASTM D-2487, Field Soils Test.....	684.90
01 45 23 00-0008	SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	1,369.34
01 45 23 00-0009	EA Moisture Content, Field Soils Test.....	51.35
01 45 23 00-0010	EA UBC Or Swell Test, Field Soils Test.....	136.98
01 45 23 00-0011	EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	342.33
01 45 23 00-0012	EA Proctor Compaction 6" Standard Mold, Field Soils Test	427.92
01 45 23 00-0013	EA Density And Classification Test, Field Soils Test.....	104.27
01 45 23 00-0014	EA Percolation Test, Field Soils Test	260.67
01 45 23 00-0015	EA Infiltration Test, Field Soils Test.....	521.35
01 45 23 00-0016	Aggregate Testing (01 45 23 00-0001)	
01 45 23 00-0017	EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202	114.15
01 45 23 00-0018	EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202	205.47
01 45 23 00-0019	EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202	285.38

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0020 EA Sieve Analysis, Pit Run, ASTM C136 Note: Includes wash.	169.44	
01 45 23 00-0021 EA Specific Special Gravity, Course, ASTM C127 Note: Includes absorption test.	181.37	
01 45 23 00-0022 EA Special Gravity, Fine, ASTM C127 Note: Includes absorption test.	162.61	
01 45 23 00-0023 EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	241.83	
01 45 23 00-0024 EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128	228.30	
01 45 23 00-0025 EA Aggregate Cleanness Value, ASTM C-128, CA 227	228.30	
01 45 23 00-0026 EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217	171.22	
01 45 23 00-0027 EA Fine Aggregate Durability Index, CA 229	182.64	
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88	479.27	
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211	365.28	
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535	365.28	
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29	102.74	
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40	102.70	
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method	102.70	
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142	205.40	
01 45 23 00-0035 Permeability Tests (01 45 23 00-0001)		
01 45 23 00-0036 In-Place Tests (01 45 23 00-0035)		
01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385	1,813.72	
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test	85.58	
01 45 23 00-0039 Lab Tests (01 45 23 00-0035)		
01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE	846.40	
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100	846.40	
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432	483.66	
01 45 23 00-0043 Concrete/Cement/Asphalt Testing (01 45 23)		
01 45 23 00-0044 Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab	26.42	
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633	72.55	
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42	148.40	
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78	216.88	
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567	79.90	
01 45 23 00-0050 EA Concrete Mix Design Review	433.77	
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory	1,027.35	
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified	799.05	
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496	123.28	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143	57.08	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	57.08	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24) Note: Includes sealing and storing 1 year.	57.08	
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials	91.32	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366	114.15	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	296.79	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559	114.15	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559	296.79	
01 45 23 00-0064 EA Swell Test, CA 305 Note: Includes compaction.	136.98	
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B	342.45	
01 45 23 00-0066 EA Gradation On Extracted Sample, ASTM D-5444	228.30	
01 45 23 00-0067 EA Maximum Theoretical Unit Weight, ASTM C2041	217.65	
01 45 23 00-0068 EA Unit Weight Sample Requiring Compaction, California Test Method 308	45.66	
01 45 23 00-0069 EA Asphalt Unit Weight On Core Test, CA 308C	45.66	
01 45 23 00-0070 HR Nuclear Field Density Testing, 4 Hour Minimum	235.15	
01 45 23 00-0071 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	117.30	
01 45 23 00-0072 EA Penetration, ASTM D5	164.90	
01 45 23 00-0073 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0074 Masonry Testing (01 45 23 00-0073)		
01 45 23 00-0075 EA 2" x 4" Cylinder Mortar Compression Test	75.34	
01 45 23 00-0076 EA 4" x 4" x 8" Grout Prisms Compression Test	75.34	
01 45 23 00-0077 EA Masonry Cores Compression Test	148.40	
01 45 23 00-0078 EA Composite Grouted Prism Compression Test	285.38	



General Requirements	01	Σ
Quality Requirements	01 40	
Quality Control	01 45	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0079	Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0073)			
01 45 23 00-0080	EA	Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	182.64	
01 45 23 00-0081	EA	Absorption Test, Moisture Content And Unit Weight.....	125.56	
01 45 23 00-0082	EA	First Unit, Moisture Condition By Relative Humidity, ASTM C427	479.27	
01 45 23 00-0083	EA	Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	239.63	
01 45 23 00-0084	Metals Testing (01 45 23)			
01 45 23 00-0085	Tank Tightness Testing (01 45 23 00-0084)			
01 45 23 00-0086	GAL	Up To 20 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	9.11	
01 45 23 00-0087	GAL	>20 To 120 Gallon, Hydrostatic Pressure Testing Of Air Receiving Tanks	7.81	
01 45 23 00-0088	EA	Up To 12,000 Gallons, Tank Volumetric Tightness Testing	2,343.56	
01 45 23 00-0089	EA	>12,000 To 29,999 Gallons, Tank Volumetric Tightness Testing	2,863.44	
01 45 23 00-0090	EA	>29,999 Gallons, Tank Volumetric Tightness Testing	3,646.71	
01 45 23 00-0091	Tank Line Tightness Testing (01 45 23 00-0084)			
01 45 23 00-0092	EA	Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	494.51	
01 45 23 00-0093	EA	>12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing	549.10	
01 45 23 00-0094	EA	>29,999 Gallons, Tank Line Volumetric Tightness Testing	603.50	
01 45 23 00-0095	Other Testing (01 45 23)			
01 45 23 00-0096	Special Testing (01 45 23 00-0095)			
01 45 23 00-0097	EA	Asphalt Roofing Cutout Samples, To Determine Unit Weight	171.17	
01 45 23 00-0098	EA	Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	1,027.00	
01 45 23 00-0099	EA	Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria)	53.35	
01 45 23 00-0100	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample	221.30	
01 45 23 00-0101	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	221.30	
01 45 23 00-0102	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample	221.30	
01 45 23 00-0103	EA	Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample	1,217.15	
01 45 23 00-0104	EA	Testing And Certification Of Backflow Valves	597.78	
01 45 23 00-0105	Non-destructive Field Testing Services (01 45 23 00-0095)			
01 45 23 00-0106	Infrared Thermography (01 45 23 00-0105) Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.			
01 45 23 00-0107	Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0106) Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.			
01 45 23 00-0108	EA	Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	2,102.35	
01 45 23 00-0109	CSF	Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	6.64	
		For Digital Or Analog Recording Of All Items, Add	1.00	
01 45 23 00-0110	CSF	>50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	4.43	
		For Digital Or Analog Recording Of All Items, Add	0.66	
01 45 23 00-0111	Other Non-destructive Field Testing Services (01 45 23 00-0105)			
01 45 23 00-0112	HR	ASNT Certified Level I NDT Consultant	77.78	
01 45 23 00-0113	HR	ASNT Certified Level II NDT Consultant	86.88	
01 45 23 00-0114	HR	ASNT Certified Level III NDT Consultant	102.18	
01 45 23 00-0115	HR	Certified Industrial Radiography Radiation Safety Personnel	117.00	
01 45 23 00-0116	Concrete Slab Moisture Testing (01 45 23 00-0095)			
01 45 23 00-0117	EA	Concrete Slab, Moisture Emission Determination For Floor Covering On Existing Concrete	162.73	
01 45 29	Testing Laboratory Services (01 45)			
	Note: For application to existing materials/site conditions or additional testing over specifications stated tests.			
01 45 29 00-0001	Soil Borings Laboratory Tests (01 45 29) See CSI section 02 32 13 00-0000 for soil borings.			
01 45 29 00-0002	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test	157.19	
01 45 29 00-0003	EA	Shrinkage Limit, Soil Borings Laboratory Test	50.15	
01 45 29 00-0004	EA	Unconfined Compressive Strength Of Cohesive Soils, Soil Borings Laboratory Test	120.92	
01 45 29 00-0005	EA	Consolidation, Soil Borings Laboratory Test	846.40	
01 45 29 00-0006	EA	Swell Test, Soil Borings Laboratory Test	132.70	
01 45 29 00-0007	EA	In Place Density, Soil Borings Laboratory Test	36.27	
01 45 29 00-0008	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test	22.53	
01 45 29 00-0009	EA	Hydrometer Analysis, Soil Borings Laboratory Test	290.95	
01 45 29 00-0010	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test	101.43	
01 45 29 00-0011	EA	Partial Sieve Analysis, Soil Borings Laboratory Test	20.06	
01 45 29 00-0012	EA	Laboratory Permeability, Soil Borings Laboratory Test	1,002.97	
01 45 29 00-0013	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test	202.87	
01 45 29 00-0014	EA	Sulfate Soundness, Soil Borings Laboratory Test	250.74	

01	General Requirements
01 40	Quality Requirements
01 45	Quality Control



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 29 00-0015	EA		Los Angeles Abrasion, Soil Borings Laboratory Test.....	464.14	
01 45 29 00-0016	EA		Soil Bearing Ratio, ASTM D1883.....	513.68	
01 45 29 00-0017	EA		Compaction Test Subgrade, Soil Borings Laboratory Test.....	150.45	
01 45 29 00-0018	EA		Compaction Test Base Course, Soil Borings Laboratory Test.....	167.16	
01 45 29 00-0019	EA		In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	358.78	
01 45 29 00-0020	EA		Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	76.89	

01 50 Temporary Facilities and Controls ⁽⁰¹⁾

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

01 51 Temporary Utilities ^(01 50)

01 51 13 Temporary Electricity ^(01 51)

01 51 13 00-0001 Temporary Service Switch And/or Building Feeder Switch ^(01 51 13)

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 30 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....	961.30
01 51 13 00-0003	EA	Temporary 60 Amperes, 240 Volt, NEMA 3R, Service Switch Or Building Feeder Switch With Fuses.....	1,217.22
01 51 13 00-0004	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	1,616.44
01 51 13 00-0005	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses.....	2,511.77
01 51 13 00-0006	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	4,593.32
01 51 13 00-0007	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	7,510.29
01 51 13 00-0008	EA	Temporary 800 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	10,271.79
01 51 13 00-0009	EA	Temporary 1,200 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	16,526.61
01 51 13 00-0010	EA	Temporary 2,000 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses.....	22,995.53

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

Note: Includes mounting on wall and removal after use.

01 51 13 00-0012	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,660.76
01 51 13 00-0013	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,334.43
01 51 13 00-0014	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,648.31
01 51 13 00-0015	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,210.18

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

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

01 51 13 00-0017	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards.....	12.18
01 51 13 00-0018	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards.....	13.35

01 51 26 Temporary Lighting ^(01 51)

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

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	295.10
01 51 26 00-0003	EA	Temporary 10 Light String With Cages.....	109.77
01 51 26 00-0004	EA	Temporary High Bay Light.....	417.25

01 52 Construction Facilities ^(01 50)

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

01 52 13 Field Offices and Sheds ^(01 52)

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

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

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet.....	252.05
		For Each Delivery And Removal, Two Round Trips, Add	1,549.69
		For Each Set-Up (Block And Level), Add	834.11
		For Each Anchoring Into Dirt, Add Per Each Anchor	233.08
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41
		For Knockdown, Add	772.38
		For Office Trailer Without Toilet, Deduct	-50.41
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet.....	285.65
		For Each Delivery And Removal, Two Round Trips, Add	1,549.69
		For Each Set-Up (Block And Level), Add	834.11
		For Each Anchoring Into Dirt, Add Per Each Anchor	233.08
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41
		For Knockdown, Add	772.38
		For Office Trailer Without Toilet, Deduct	-57.13
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet.....	386.47
		For Each Delivery And Removal, Two Round Trips, Add	3,099.39
		For Each Set-Up (Block And Level), Add	1,309.95
		For Each Anchoring Into Dirt, Add Per Each Anchor	233.08
		For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41
		For Knockdown, Add	1,161.99
		For Office Trailer Without Toilet, Deduct	-77.29



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0005	MO		10' x 40' Mobile Office, With Toilet.....	411.68	
			For Each Delivery And Removal, Two Round Trips, Add	3,099.39	
			For Each Set-Up (Block And Level), Add	1,309.95	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	1,161.99	
			For Office Trailer Without Toilet, Deduct	-82.34	
01 52 13 00-0006	MO		10' x 44' Mobile Office, With Toilet.....	453.69	
			For Each Delivery And Removal, Two Round Trips, Add	3,099.39	
			For Each Set-Up (Block And Level), Add	1,309.95	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	1,161.99	
01 52 13 00-0007	MO		10' x 50' Mobile Office, With Toilet.....	478.89	
			For Each Delivery And Removal, Two Round Trips, Add	3,099.39	
			For Each Set-Up (Block And Level), Add	1,309.95	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	1,161.99	
01 52 13 00-0008	MO		12' x 32' Mobile Office, With Toilet.....	389.04	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	1,161.99	
			For Each Delivery And Removal, Two Round Trips, Add	748.49	
			For Each Set-Up (Block And Level), Add	587.88	
01 52 13 00-0009	MO		12' x 44' Mobile Office, With Toilet.....	520.13	
			For Each Delivery And Removal, Two Round Trips, Add	3,099.39	
			For Each Set-Up (Block And Level), Add	1,309.95	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	1,161.99	
01 52 13 00-0010	MO		12' x 50' Mobile Office, With Toilet.....	619.20	
			For Each Delivery And Removal, Two Round Trips, Add	3,099.39	
			For Each Set-Up (Block And Level), Add	1,309.95	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	1,161.99	
01 52 13 00-0011	MO		12' x 60' Mobile Office, With Toilet.....	856.12	
			For Each Delivery And Removal, Two Round Trips, Add	3,099.39	
			For Each Set-Up (Block And Level), Add	1,309.95	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	1,161.99	
01 52 13 00-0012	MO		24' x 60' Modular Office, With Toilet	1,344.25	
			For Each Delivery And Removal, Two Round Trips, Add	4,649.08	
			For Each Set-Up (Block And Level), Add	2,337.74	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	2,317.15	
01 52 13 00-0013	MO		24' x 72' Modular Office, With Toilet	1,613.09	
			For Each Delivery And Removal, Two Round Trips, Add	4,649.08	
			For Each Set-Up (Block And Level), Add	2,337.74	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	2,317.15	
01 52 13 00-0014	MO		30' x 30' Modular Office, With Toilet	843.31	
			For Each Delivery And Removal, Two Round Trips, Add	4,649.08	
			For Each Set-Up (Block And Level), Add	2,337.74	
			For Each Anchoring Into Dirt, Add Per Each Anchor	233.08	
			For Each Anchoring Into Asphalt Or Concrete, Add Per Each Anchor	325.41	
			For Knockdown, Add	2,317.15	
01 52 13 00-0015			Accessories For Field Office Trailers (01 52 13)		
			Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016	MO		Desk For Field Office Trailer	41.23	
01 52 13 00-0017	MO		Rolling Desk Chair For Field Office Trailer	25.77	
01 52 13 00-0018	MO		File Cabinet For Field Office Trailer	30.92	
01 52 13 00-0019	MO		Table For Field Office Trailer	20.61	
01 52 13 00-0020	MO		Folding Chair For Field Office Trailer.....	9.76	
01 52 13 00-0021	EA		Phone Hook-Up For Field Office Trailer.....	113.37	
01 52 13 00-0022	MO		Local Hardwired Phone or Data Service Per Phone Line For Field Office Trailer.....	82.45	
01 52 13 00-0023	MO		Security System With Monitoring For Field Office Trailer	129.90	
01 52 13 00-0024	LF		Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	16.35	
01 52 13 00-0025	LF		Insulated Perimeter Trailer Vinyl Skirting For Field Office Trailer	38.73	
01 52 13 00-0026	MO		Steps For Field Office Trailer.....	71.90	
01 52 13 00-0027	MO		Steps With Canopy For Field Office Trailer	119.96	
01 52 13 00-0028	MO		Fax Machine For Field Office Trailer.....	44.17	
01 52 13 00-0029	MO		Copier For Field Office Trailer.....	82.45	
01 52 13 00-0030			Storage Containers (01 52 13)		
01 52 13 00-0031	MO		8' x 8' x 10' Storage Container	140.03	
			For Each Delivery And Removal, Two Round Trips, Add	116.51	
			For >12 Months, Deduct	-31.51	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0032 MO 8' x 8' x 20' Storage Container 146.40 For Each Delivery And Removal, Two Round Trips, Add 128.16 For >12 Months, Deduct -32.94		
01 52 13 00-0033 MO 8' x 8' x 40' Storage Container 173.13 For Each Delivery And Removal, Two Round Trips, Add 258.11 For >12 Months, Deduct -38.95		
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19) Note: Includes servicing once per week (unless task states otherwise).		
01 52 19 00-0002 WK Portable Chemical Toilet 70.86 For Each Additional Servicing Per Unit Per Week, Add 25.00 For Each Delivery And Set-up, Add 47.65		
01 52 19 00-0003 MO Portable Chemical Toilet 212.57 For Each Additional Servicing Per Unit Per Week, Add 25.00 For Each Delivery And Set-up, Add 47.65		
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet 84.51 For Each Additional Servicing Per Unit Per Week, Add 25.00 For Each Delivery And Set-up, Add 47.65		
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet 248.00 For Each Additional Servicing Per Unit Per Week, Add 25.00 For Each Delivery And Set-up, Add 47.65		
01 52 19 00-0006 WK Two Station Portable Handwash 56.43 For Each Delivery And Set-up, Add 47.65		
01 52 19 00-0007 MO Two Station Portable Handwash 171.18 For Each Delivery And Set-up, Add 47.65		
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer 6,253.92 Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink). Excludes servicing. For Each Delivery, Set-up And Removal, Two Round Trips, Add 1,239.76		
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week 2,105.24 For One Additional Service Per Week, Add 701.74 Note: For one less service per week, UOM to be negative one (-1)		
01 53 Temporary Construction (01 50)		
01 53 16 Temporary Decking (01 53)		
01 53 16 00-0001 Temporary Walkways And Railings (01 53 16) Note: Includes removal after use.		
01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers 8.51		
01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail 38.54		
01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam 15.80		
01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers 28.91		
01 53 23 Temporary Ramps (01 53)		
01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23) Note: Includes removal after use.		
01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access 1.82		0.58
01 54 Construction Aids (01 50)		
01 54 09 Personnel Protection Equipment (01 54)		
01 54 09 00-0001 Personnel Protection Equipment (01 54 09) Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.		
01 54 09 00-0002 NTE Personnel Protection Equipment 0.00 Note: For specification publishing. Review specifications for requirements.		
01 54 23 Temporary Scaffolding and Platforms (01 54)		
01 54 23 00-0001 Scaffolding (01 54 23) Note: Additional scaffolding rental for work above the normal working height.		
01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003 CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month) 44.13 For Up To 25, Add 17.65 For >25 To 50, Add 11.03 For >50 To 150, Add 4.41		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
01 54 23 00-0004	CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	49.62		
	For Up To 25, Add	19.85		
	For >25 To 50, Add	12.41		
	For >50 To 150, Add	4.96		
01 54 23 00-0005	CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	66.19		
	For Up To 25, Add	26.48		
	For >25 To 50, Add	16.55		
	For >50 To 150, Add	6.62		
01 54 23 00-0006	Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.			
01 54 23 00-0007	CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	52.24		
01 54 23 00-0008	CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	68.51		
01 54 23 00-0009	CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	91.43		
01 54 23 00-0010	CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	100.56		
01 54 23 00-0011	CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	115.80		
01 54 23 00-0012	CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	73.14		
01 54 23 00-0013	Heavy-Duty Masonry Scaffolding Rental - Rental Only (01 54 23 00-0001) Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.			
01 54 23 00-0014	CCF Heavy-Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month)	70.43		
01 54 23 00-0015	CCF Heavy-Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month)	129.12		
01 54 23 00-0016	LF Aluminum Joists (LF / Month)	11.45		
01 54 23 00-0017	LF Aluminum Stringers (LF / Month)	16.42		
01 54 23 00-0018	EA Screw Jack With U-Plate For Stringers (EA / Month).....	20.69		
01 54 23 00-0019	Heavy-Duty Masonry Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001) Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.			
01 54 23 00-0020	CCF Up To 20' Height Heavy-Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	97.52		
01 54 23 00-0021	CCF >20' To 40' Height Heavy-Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	121.90		
01 54 23 00-0022	CCF >40' To 60' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	146.28		
01 54 23 00-0023	CCF >60' To 80' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	158.46		
01 54 23 00-0024	CCF >80' Height Heavy-Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	176.75		
01 54 23 00-0025	Scaffolding Accessories (01 54 23 00-0001) See CSI section 01 54 23 00-0019 for erection.			
01 54 23 00-0026	CSF Netting for Exterior Building Scaffolding	43.67		
	Note: Includes removal after use.			
01 54 23 00-0027	Rolling Scaffolding (01 54 23) Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.			
01 54 23 00-0028	DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	14.28		
01 54 23 00-0029	WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	57.23		
01 54 23 00-0030	MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	228.90		
01 54 23 00-0031	DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	23.91		
01 54 23 00-0032	WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	95.76		
01 54 23 00-0033	MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	383.07		
01 54 23 00-0034	EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	115.60		
01 54 23 00-0035	EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold	144.51		
01 54 23 00-0036	Shoring Posts (01 54 23)			
01 54 23 00-0037	DAY 6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post.....	2.15		
01 54 23 00-0038	WK 6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post.....	8.60		
01 54 23 00-0039	MO 6'-6" To 11' Extension, 5,000 Lb. Capacity, Steel Shoring Post.....	25.81		
01 54 23 00-0040	EA Initial Erection And Final Dismantling For Each Shoring Post	9.26		
	For >20 To 50, Deduct	-1.39		
	For >50 To 100, Deduct	-3.24		
	For >100, Deduct	-5.09		
01 54 23 00-0041	Temporary Lumber, Single Use (01 54 23) Note: Includes removal after use.			
01 54 23 00-0042	SF 5/16" CD Grade Plywood, Temporary Lumber	2.84		
01 54 23 00-0043	SF 1/2" CD Grade Plywood, Temporary Lumber	3.21		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0044	SF		5/8" CD Grade Plywood, Temporary Lumber.....	3.51	
01 54 23 00-0045	SF		3/4" CD Grade Plywood, Temporary Lumber.....	3.86	
01 54 23 00-0046	SF		1" CD Grade Plywood, Temporary Lumber.....	5.61	
01 54 23 00-0047	LF		2" x 4" Temporary Lumber.....	3.64	
01 54 23 00-0048	LF		2" x 6" Temporary Lumber.....	4.59	
01 54 23 00-0049	LF		2" x 8" Temporary Lumber.....	5.55	
01 54 23 00-0050	LF		2" x 10" Temporary Lumber.....	6.50	
01 54 23 00-0051	LF		2" x 12" Temporary Lumber.....	7.46	
01 54 23 00-0052	LF		3" x 8" Temporary Lumber.....	7.46	
01 54 23 00-0053	LF		3" x 10" Temporary Lumber.....	8.89	
01 54 23 00-0054	LF		3" x 12" Temporary Lumber.....	10.34	
01 54 23 00-0055	LF		4" x 4" Temporary Lumber.....	4.87	
01 54 23 00-0056	LF		4" x 6" Temporary Lumber.....	6.97	
01 54 23 00-0057	LF		6" x 6" Temporary Lumber.....	9.06	
01 54 23 00-0058	LF		6" x 8" Temporary Lumber.....	11.75	
01 54 23 00-0059	LF		12" x 12" Temporary Lumber.....	28.53	
01 54 23 00-0060			Temporary Precast Concrete Blocks (01 54 23)		
			Note: Includes removal after use.		
01 54 23 00-0061	EA		2' x 2' x 2' Temporary Precast Concrete (Ecology) Block	128.80	
			Note: Includes removal after use.		
01 54 23 00-0062	EA		2' x 2' x 4' Temporary Precast Concrete (Ecology) Block	161.00	
			Note: Includes removal after use.		
01 54 23 00-0063	EA		2' x 2' x 8' Temporary Precast Concrete (Ecology) Block	211.78	
			Note: Includes removal after use.		
01 54 26			Temporary Swing Staging (01 54)		
			Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001			Swing Stage (01 54 26)		
			Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002	MO		7' Swing Stage, Electric Operated	3,095.78	
01 54 26 00-0003	MO		10' Swing Stage, Electric Operated	3,250.57	
01 54 26 00-0004	MO		14' Swing Stage, Electric Operated	3,405.36	
01 54 26 00-0005	MO		20' Swing Stage, Electric Operated	3,560.15	
01 54 26 00-0006	MO		24' Swing Stage, Electric Operated	3,714.94	
01 54 26 00-0007	MO		30' Swing Stage, Electric Operated	3,869.73	
01 54 26 00-0008	MO		42' Swing Stage, Electric Operated	4,024.52	
01 54 26 00-0009	MO		12' Swing Stage, Manually Operated	892.71	
01 54 26 00-0010	MO		24' Swing Stage, Manually Operated	1,115.89	
01 54 26 00-0011	EA		Swing Stage Platform From Hooks, Erection And Dismantling	4,927.86	
			Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.		
01 54 26 00-0012	EA		Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	6,848.11	
			Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013	EA		Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,591.18	
01 54 26 00-0014	EA		Move Swing Stage Platform And Temporary Roof Mounted Outrigger System To Different Location At Same Roof	3,609.14	
01 55			Vehicular Access and Parking (01 50)		
01 55 23			Temporary Roads (01 55)		
01 55 23 00-0001			Temporary Stabilized Construction Entrance (01 55 23)		
			Note: As per Caltrans detail.		
01 55 23 00-0002	SF		3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	3.35	
			Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003	SF		>4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	4.37	
			Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0004			Rumble Trench Plate (01 55 23)		
01 55 23 00-0005	MO		8' x 10' Steel Rumble Trench Plate Rental.....	413.50	
01 55 23 00-0006	EA		Placement And Removal Of Rumble Plate	101.78	
			Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007	EA		Relocate And Adjust Location Of Rumble Plate.....	25.44	
			Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0008			Temporary Road Ramps (Godwin) (01 55 23)		
			Note: Excludes asphalt and gravel.		
01 55 23 00-0009	EA		4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,078.52	229.03
01 55 23 00-0010	EA		6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	6,914.67	343.55
01 55 23 00-0011	EA		8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	9,554.38	458.05
01 55 23 00-0012	EA		12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	19,827.92	572.57



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

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 23 00-0013	EA	24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....		29,096.99	687.08
01 55 26 Traffic Control (01 55)					
01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask (01 55 26)					
Note: Includes installation and removal after use.					
01 55 26 00-0002	LF	6" Removable Traffic Black Line Mask		5.40	
01 55 26 00-0003	LF	8" Removable Traffic Black Line Mask		6.52	
01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)					
Note: Includes installation and removal after use.					
01 55 26 00-0005	LF	4" Reflective Removable Traffic Line Tape		5.46	
01 55 26 00-0006	LF	6" Reflective Removable Traffic Line Tape		7.45	
01 55 26 00-0007	LF	8" Reflective Removable Traffic Line Tape		9.35	
01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)					
Note: Includes installation and removal after use.					
01 55 26 00-0009	LF	4" Temporary Painted Traffic Lines		2.51	
				Note: Includes removal after use	
				For Not Removed, Deduct	
				-1.72	
01 55 26 00-0010	LF	6" Temporary Painted Traffic Lines		3.31	
				Note: Includes removal after use	
				For Not Removed, Deduct	
				-2.34	
01 55 26 00-0011	LF	8" Temporary Painted Traffic Lines		4.15	
				Note: Includes removal after use	
				For Not Removed, Deduct	
				-2.98	
01 55 26 00-0012	EA	2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....		3.44	
01 55 26 00-0013	EA	2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....		3.47	
01 55 26 00-0014 Temporary Pedestrian Traffic Control (01 55 26)					
01 55 26 00-0015	CLF	1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange		11.22	
01 55 26 00-0016	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange		14.72	
01 55 26 00-0017	CLF	3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow		8.71	
01 55 26 00-0018	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow		10.71	
01 55 26 00-0019	CLF	3", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent		11.69	
01 55 26 00-0020	CLF	6", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent		16.12	
01 55 26 00-0021	CLF	1" Exterior Vinyl Tape (Warning Tape)		13.37	
01 55 26 00-0022	CLF	2" Exterior Vinyl Tape (Warning Tape)		18.81	
01 55 26 00-0023	CLF	3" Exterior Vinyl Tape (Warning Tape)		23.70	
01 55 26 00-0024	CLF	4" Exterior Vinyl Tape (Warning Tape)		27.73	
01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)					
Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.					
01 55 26 00-0026	LF	4" Linear Delineation System.....		11.70	
01 55 26 00-0027	LF	6" Linear Delineation System.....		15.84	
01 55 26 00-0028 Temporary Traffic Protection (01 55 26)					
01 55 26 00-0029 Temporary Portable Traffic Control Device Usage (01 55 26 00-0028)					
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0150 for delivery, placing and removal.					
01 55 26 00-0030	DAY	28" Cone With Reflective Collar.....		0.89	
01 55 26 00-0031	WK	28" Cone With Reflective Collar.....		2.66	
01 55 26 00-0032	MO	28" Cone With Reflective Collar.....		7.99	
01 55 26 00-0033	DAY	36" Traffic Cone With Reflective Collar.....		1.11	
01 55 26 00-0034	WK	36" Traffic Cone With Reflective Collar.....		3.33	
01 55 26 00-0035	MO	36" Traffic Cone With Reflective Collar.....		9.99	
01 55 26 00-0036	DAY	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....		2.09	
01 55 26 00-0037	WK	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....		6.27	
01 55 26 00-0038	MO	Tubular Marker Delineator Guide Post With Base/Channelizing Guide Post.....		18.82	
01 55 26 00-0039	DAY	Vertical Panel.....		2.68	
01 55 26 00-0040	WK	Vertical Panel.....		8.04	
01 55 26 00-0041	MO	Vertical Panel.....		24.13	
01 55 26 00-0042	DAY	Channelizer Drum.....		2.91	
01 55 26 00-0043	WK	Channelizer Drum.....		8.73	
01 55 26 00-0044	MO	Channelizer Drum.....		26.20	
01 55 26 00-0045	DAY	Stackable Channelizer Panel.....		1.38	
01 55 26 00-0046	WK	Stackable Channelizer Panel.....		4.13	
01 55 26 00-0047	MO	Stackable Channelizer Panel.....		12.39	
01 55 26 00-0048	DAY	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....		1.91	
01 55 26 00-0049	WK	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....		5.72	
01 55 26 00-0050	MO	Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....		17.16	
01 55 26 00-0051	DAY	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side		4.23	
01 55 26 00-0052	WK	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side		12.68	
01 55 26 00-0053	MO	Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side		38.03	
01 55 26 00-0054	DAY	Type III Barricade, Up To 5' Wide With Three Reflective Rails		4.82	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 55 26 00-0055	WK	Type III Barricade, Up To 5' Wide With Three Reflective Rails	14.45
01 55 26 00-0056	MO	Type III Barricade, Up To 5' Wide With Three Reflective Rails	43.34
01 55 26 00-0057	DAY	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	8.81
01 55 26 00-0058	WK	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	26.43
01 55 26 00-0059	MO	Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	79.28
01 55 26 00-0060	DAY	Up To 10' Wide A Frame Barricade	4.83
01 55 26 00-0061	WK	Up To 10' Wide A Frame Barricade	14.49
01 55 26 00-0062	MO	Up To 10' Wide A Frame Barricade	43.48
01 55 26 00-0063	DAY	Type A Or C Flasher	0.98
01 55 26 00-0064	WK	Type A Or C Flasher	2.95
01 55 26 00-0065	MO	Type A Or C Flasher	8.86
01 55 26 00-0066	DAY	Type B Flasher (High Intensity)	5.34
01 55 26 00-0067	WK	Type B Flasher (High Intensity)	16.02
01 55 26 00-0068	MO	Type B Flasher (High Intensity)	48.07

01 55 26 00-0069 Temporary Traffic Barriers Usage (01 55 26 00-0028)

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

01 55 26 00-0070	DAY	6' Long Portable Parking Curbs	2.30
01 55 26 00-0071	WK	6' Long Portable Parking Curbs	6.90
01 55 26 00-0072	MO	6' Long Portable Parking Curbs	20.71
01 55 26 00-0073	DAY	6' Long Portable Speed Bumps	6.81
01 55 26 00-0074	WK	6' Long Portable Speed Bumps	20.42
01 55 26 00-0075	MO	6' Long Portable Speed Bumps	61.28
01 55 26 00-0076	DAY	8' To 12.5' Concrete Traffic Barrier	16.36
01 55 26 00-0077	WK	8' To 12.5' Concrete Traffic Barrier	49.07
01 55 26 00-0078	MO	8' To 12.5' Concrete Traffic Barrier	147.21
01 55 26 00-0079	DAY	>12.5' To 20' Concrete Traffic Barrier	32.71
01 55 26 00-0080	WK	>12.5' To 20' Concrete Traffic Barrier	98.14
01 55 26 00-0081	MO	>12.5' To 20' Concrete Traffic Barrier	294.42
01 55 26 00-0082	DAY	6' x 32" Tall Plastic Water Barrier	19.53
01 55 26 00-0083	WK	6' x 32" Tall Plastic Water Barrier	58.60
01 55 26 00-0084	MO	6' x 32" Tall Plastic Water Barrier	175.80
01 55 26 00-0085	DAY	6' x 46" Tall Plastic Water Barrier	27.89
01 55 26 00-0086	WK	6' x 46" Tall Plastic Water Barrier	83.67
01 55 26 00-0087	MO	6' x 46" Tall Plastic Water Barrier	251.02
01 55 26 00-0088	DAY	Sand Filled Crash Attenuator Barrels.....	10.92
01 55 26 00-0089	WK	Sand Filled Crash Attenuator Barrels.....	32.75
01 55 26 00-0090	MO	Sand Filled Crash Attenuator Barrels.....	98.25
01 55 26 00-0091	MO	Rolling Straight Concrete Barrier, Per Each Barrier Per Month	3,627.45
01 55 26 00-0092	MO	Rolling Absorbing Concrete Barrier, Per Each Barrier Per Month.....	1,450.98
01 55 26 00-0093	MO	Rolling Transition Concrete Barrier, Per Each Barrier Per Month	386.93
01 55 26 00-0094	EA	2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide..... Note: Includes delivery, pickup and two months rental.	6,736.30
01 55 26 00-0095	MO	2 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 2 (44 MPH), 24" Wide..... Note: Rental rate after 1st two months.	640.17
01 55 26 00-0096	EA	5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide..... Note: Includes delivery, pickup and two months rental.	8,077.24
01 55 26 00-0097	MO	5 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (62 MPH), 24" Wide..... Note: Rental rate after 1st two months.	960.26
01 55 26 00-0098	EA	8 Bay, Non-Gating, Redirective Crash Cushion System, Test Level 3 (71 MPH), 24" Wide..... Note: Includes delivery, pickup and two months rental.	9,844.97
01 55 26 00-0099	MO	8 Bay, Non-Gating, Redirective Crash Cushion System, 71 MPH, 24" Wide..... Note: Rental rate after 1st two months.	1,173.64
01 55 26 00-0100	MO	24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non-Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER)..... Note: Consists of 8 bays with nose piece at the front of the system.	1,549.20

01 55 26 00-0101 Temporary Portable Signs And Message Displays Usage (01 55 26 00-0028)

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

01 55 26 00-0102	DAY	Mesh Or Vinyl Roll-up Sign With Stand	8.57
01 55 26 00-0103	WK	Mesh Or Vinyl Roll-up Sign With Stand	25.71
01 55 26 00-0104	MO	Mesh Or Vinyl Roll-up Sign With Stand	77.14
01 55 26 00-0105	DAY	18" x 18" Aluminum Construction Sign, With Portable Stand.....	3.33
01 55 26 00-0106	WK	18" x 18" Aluminum Construction Sign, With Portable Stand.....	9.98
01 55 26 00-0107	MO	18" x 18" Aluminum Construction Sign, With Portable Stand.....	29.95
01 55 26 00-0108	DAY	30" x 24" Aluminum Construction Sign, With Portable Stand.....	4.58
01 55 26 00-0109	WK	30" x 24" Aluminum Construction Sign, With Portable Stand.....	13.74
01 55 26 00-0110	MO	30" x 24" Aluminum Construction Sign, With Portable Stand.....	41.21
01 55 26 00-0111	DAY	30" x 30" Aluminum Construction Sign, With Portable Stand.....	4.07
01 55 26 00-0112	WK	30" x 30" Aluminum Construction Sign, With Portable Stand.....	12.20
01 55 26 00-0113	MO	30" x 30" Aluminum Construction Sign, With Portable Stand.....	36.59
01 55 26 00-0114	DAY	48" x 18" Aluminum Construction Sign, With Portable Stand.....	5.00
01 55 26 00-0115	WK	48" x 18" Aluminum Construction Sign, With Portable Stand.....	14.99
01 55 26 00-0116	MO	48" x 18" Aluminum Construction Sign, With Portable Stand.....	44.98
01 55 26 00-0117	DAY	48" x 24" Aluminum Construction Sign, With Portable Stand.....	5.84
01 55 26 00-0118	WK	48" x 24" Aluminum Construction Sign, With Portable Stand.....	17.51
01 55 26 00-0119	MO	48" x 24" Aluminum Construction Sign, With Portable Stand.....	52.53
01 55 26 00-0120	DAY	48" x 30" Aluminum Construction Sign, With Portable Stand.....	6.68



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0121	WK		48" x 30" Aluminum Construction Sign, With Portable Stand.....	20.03	
01 55 26 00-0122	MO		48" x 30" Aluminum Construction Sign, With Portable Stand.....	60.08	
01 55 26 00-0123	DAY		48" x 36" Aluminum Construction Sign, With Portable Stand.....	7.52	
01 55 26 00-0124	WK		48" x 36" Aluminum Construction Sign, With Portable Stand.....	22.55	
01 55 26 00-0125	MO		48" x 36" Aluminum Construction Sign, With Portable Stand.....	67.64	
01 55 26 00-0126	DAY		48" x 48" Aluminum Construction Sign, With Portable Stand.....	9.19	
01 55 26 00-0127	WK		48" x 48" Aluminum Construction Sign, With Portable Stand.....	27.58	
01 55 26 00-0128	MO		48" x 48" Aluminum Construction Sign, With Portable Stand.....	82.74	
01 55 26 00-0129	DAY		60" x 24" Aluminum Construction Sign, With Portable Stand.....	9.16	
01 55 26 00-0130	WK		60" x 24" Aluminum Construction Sign, With Portable Stand.....	27.47	
01 55 26 00-0131	MO		60" x 24" Aluminum Construction Sign, With Portable Stand.....	82.41	
01 55 26 00-0132	DAY		60" x 30" Aluminum Construction Sign, With Portable Stand.....	10.21	
01 55 26 00-0133	WK		60" x 30" Aluminum Construction Sign, With Portable Stand.....	30.62	
01 55 26 00-0134	MO		60" x 30" Aluminum Construction Sign, With Portable Stand.....	91.85	
01 55 26 00-0135	DAY		60" x 36" Aluminum Construction Sign, With Portable Stand.....	11.25	
01 55 26 00-0136	WK		60" x 36" Aluminum Construction Sign, With Portable Stand.....	33.76	
01 55 26 00-0137	MO		60" x 36" Aluminum Construction Sign, With Portable Stand.....	101.29	
01 55 26 00-0138	DAY		Aluminum Sign And Post.....	4.76	
01 55 26 00-0139	WK		Aluminum Sign And Post.....	14.28	
01 55 26 00-0140	MO		Aluminum Sign And Post.....	42.84	
01 55 26 00-0141	DAY		Trailer Mounted Flashing Arrow Board.....	180.33	
01 55 26 00-0142	WK		Trailer Mounted Flashing Arrow Board.....	499.12	
01 55 26 00-0143	MO		Trailer Mounted Flashing Arrow Board.....	1,320.24	
01 55 26 00-0144	DAY		Trailer Mounted Portable Variable Message Sign (PVMS).....	300.66	
01 55 26 00-0145	WK		Trailer Mounted Portable Variable Message Sign (PVMS).....	801.76	
01 55 26 00-0146	MO		Trailer Mounted Portable Variable Message Sign (PVMS).....	1,603.52	
01 55 26 00-0147	DAY		Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	1,457.96	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.					
01 55 26 00-0148	WK		Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	4,373.88	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.					
01 55 26 00-0149	MO		Two Head, Trailer Mounted Traffic Signal System (Set Of Two).....	13,121.64	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.					
01 55 26 00-0150 Place And Remove Temporary Traffic Protection Using Truck (01 55 26 00-0028)					
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0043 for delivery >15 miles.					
01 55 26 00-0151	EA		Placement And Removal Of Up To 250 Cones Using Truck.....	4.01	
01 55 26 00-0152	EA		Placement And Removal Of >250 Cones Using Truck.....	3.50	
01 55 26 00-0153	EA		Placement And Removal Of Up To 250 Panels/Channelizers Using Truck.....	6.62	
01 55 26 00-0154	EA		Placement And Removal Of >250 Panels/Channelizers Using Truck.....	5.51	
01 55 26 00-0155	EA		Placement And Removal Of Up To 250 Barricades Using Truck.....	10.02	
01 55 26 00-0156	EA		Placement And Removal Of >250 Barricades Using Truck.....	8.02	
01 55 26 00-0157	EA		Placement And Removal Of Curbs/Speed Bumps Using Truck.....	10.02	
01 55 26 00-0158	EA		Placement And Removal Of Portable Sign And Stand Using Truck.....	6.01	
01 55 26 00-0159	EA		Placement And Removal Of Aluminum Sign And Post Using Truck.....	25.06	
01 55 26 00-0160	EA		Placement And Removal Of Trailer Mounted Boards And Signals Using Truck.....	75.18	
01 55 26 00-0161	EA		Placement And Removal Of Up To 12.5' Concrete Traffic Barrier.....	101.78	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.					
For 1 Barrier, Add				254.45	
For 2 Barriers, Add				91.60	
For 3 Barriers, Add				30.53	
01 55 26 00-0162	EA		Placement And Removal Of >12.5' Concrete Traffic Barrier.....	152.67	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.					
For 1 Barrier, Add				381.68	
For 2 Barriers, Add				137.40	
For 3 Barriers, Add				45.80	
01 55 26 00-0163	EA		Placement And Removal Of Plastic Water Barrier.....	58.36	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for Equipment Usage, 01 71 13 00-0000 for mobilization tasks.					
For 1 Barrier, Add				127.23	
For 2 Barriers, Add				45.80	
For 3 Barriers, Add				15.27	
01 55 26 00-0164	EA		Placement And Removal Of Crash Attenuator Barrels.....	76.33	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.					
For 1 Barrier, Add				190.83	
For 2 Barriers, Add				68.70	
For 3 Barriers, Add				22.90	
01 55 26 00-0165	EA		Placement And Removal Of 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non-Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	559.77	
Note: Consists of 8 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.					
01 55 26 00-0166 Place And Remove Temporary Traffic Protection From Roadside (Daily) (01 55 26 00-0028)					
01 55 26 00-0167	EA		Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	2.51	
01 55 26 00-0168	EA		Placement And Removal Of >250 Cones By Hand From Roadside.....	2.00	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0169 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	3.34	
01 55 26 00-0170 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.66	
01 55 26 00-0171 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	5.01	
01 55 26 00-0172 EA Placement And Removal Of >250 Barricades By Hand From Roadside	4.01	
01 55 26 00-0173 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.96	
01 55 26 00-0174 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	37.59	
01 55 26 00-0175 EA Roadside Relocation Of Concrete Traffic Barrier	50.89	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
 01 55 26 00-0176 Place And Remove Temporary Signs For Detours (01 55 26 00-0028)		
01 55 26 00-0177 Temporary Reflectorized Signs For Detours (01 55 26 00-0176)		
Note: Excludes posts.		
01 55 26 00-0178 Temporary Aluminum Engineer Grade Stop Signs For Detours (01 55 26 00-0177)		
01 55 26 00-0179 EA Temporary 18" x 18" Aluminum Engineer Grade Stop Sign For Detours	94.22	
For Hi-Intensity Grade, Add	9.53	
For Diamond Grade, Add	18.10	
01 55 26 00-0180 EA Temporary 18" x 24" Aluminum Engineer Grade Stop Sign For Detours	107.46	
For Hi-Intensity Grade, Add	12.46	
For Diamond Grade, Add	23.67	
01 55 26 00-0181 EA Temporary 24" x 24" Aluminum Engineer Grade Stop Sign For Detours	115.81	
For Hi-Intensity Grade, Add	19.03	
For Diamond Grade, Add	30.17	
01 55 26 00-0182 EA Temporary 30" x 30" Aluminum Engineer Grade Stop Sign For Detours	132.32	
For Hi-Intensity Grade, Add	7.13	
For Diamond Grade, Add	38.64	
01 55 26 00-0183 EA Temporary 36" x 36" Aluminum Engineer Grade Stop Sign For Detours	171.61	
For Hi-Intensity Grade, Add	20.96	
For Diamond Grade, Add	65.73	
 01 55 26 00-0184 Other Temporary Reflectorized Traffic Signs For Detours (01 55 26 00-0177)		
Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.		
01 55 26 00-0185 Temporary Aluminum Engineer Grade Traffic Signs For Detours (01 55 26 00-0184)		
01 55 26 00-0186 EA Temporary 6" x 12" Aluminum Engineer Grade Traffic Sign For Detours	63.39	
For Hi-Intensity Grade, Add	2.36	
01 55 26 00-0187 EA Temporary 6" x 18" Aluminum Engineer Grade Traffic Sign For Detours	67.32	
For Hi-Intensity Grade, Add	3.54	
01 55 26 00-0188 EA Temporary 9" x 12" Aluminum Engineer Grade Traffic Sign For Detours	67.32	
For Hi-Intensity Grade, Add	3.54	
01 55 26 00-0189 EA Temporary 9" x 15" Aluminum Engineer Grade Traffic Sign For Detours	70.27	
For Hi-Intensity Grade, Add	4.43	
01 55 26 00-0190 EA Temporary 9" x 18" Aluminum Engineer Grade Traffic Sign For Detours	73.22	
For Hi-Intensity Grade, Add	5.31	
01 55 26 00-0191 EA Temporary 9" x 24" Aluminum Engineer Grade Traffic Sign For Detours	82.59	
For Hi-Intensity Grade, Add	7.08	
01 55 26 00-0192 EA Temporary 9" x 48" Aluminum Engineer Grade Traffic Sign For Detours	106.19	
For Hi-Intensity Grade, Add	14.16	
01 55 26 00-0193 EA Temporary 12" x 12" Aluminum Engineer Grade Traffic Sign For Detours	71.25	
For Hi-Intensity Grade, Add	4.72	
01 55 26 00-0194 EA Temporary 12" x 18" Aluminum Engineer Grade Traffic Sign For Detours	82.59	
For Hi-Intensity Grade, Add	7.08	
01 55 26 00-0195 EA Temporary 12" x 24" Aluminum Engineer Grade Traffic Sign For Detours	90.45	
For Hi-Intensity Grade, Add	9.44	
01 55 26 00-0196 EA Temporary 12" x 30" Aluminum Engineer Grade Traffic Sign For Detours	98.32	
For Hi-Intensity Grade, Add	11.80	
01 55 26 00-0197 EA Temporary 12" x 36" Aluminum Engineer Grade Traffic Sign For Detours	106.19	
For Hi-Intensity Grade, Add	14.16	
01 55 26 00-0198 EA Temporary 18" x 18" Aluminum Engineer Grade Traffic Sign For Detours	94.39	
For Hi-Intensity Grade, Add	10.62	
01 55 26 00-0199 EA Temporary 18" x 24" Aluminum Engineer Grade Traffic Sign For Detours	106.19	
For Hi-Intensity Grade, Add	14.16	
01 55 26 00-0200 EA Temporary 18" x 30" Aluminum Engineer Grade Traffic Sign For Detours	121.47	
For Hi-Intensity Grade, Add	17.70	
01 55 26 00-0201 EA Temporary 18" x 36" Aluminum Engineer Grade Traffic Sign For Detours	133.27	
For Hi-Intensity Grade, Add	21.24	
01 55 26 00-0202 EA Temporary 18" x 54" Aluminum Engineer Grade Traffic Sign For Detours	182.54	
For Hi-Intensity Grade, Add	31.86	
01 55 26 00-0203 EA Temporary 24" x 24" Aluminum Engineer Grade Traffic Sign For Detours	125.40	
For Hi-Intensity Grade, Add	18.88	
01 55 26 00-0204 EA Temporary 24" x 30" Aluminum Engineer Grade Traffic Sign For Detours	141.13	
For Hi-Intensity Grade, Add	23.60	
01 55 26 00-0205 EA Temporary 24" x 36" Aluminum Engineer Grade Traffic Sign For Detours	156.86	
For Hi-Intensity Grade, Add	28.32	
01 55 26 00-0206 EA Temporary 24" x 42" Aluminum Engineer Grade Traffic Sign For Detours	186.48	
For Hi-Intensity Grade, Add	33.04	
01 55 26 00-0207 EA Temporary 24" x 48" Aluminum Engineer Grade Traffic Sign For Detours	202.21	
For Hi-Intensity Grade, Add	37.76	
01 55 26 00-0208 EA Temporary 24" x 54" Aluminum Engineer Grade Traffic Sign For Detours	217.94	
For Hi-Intensity Grade, Add	42.48	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0209	EA		Temporary 30" x 30" Aluminum Engineer Grade Traffic Sign For Detours	160.80	
			For Hi-Intensity Grade, Add	29.50	
01 55 26 00-0210	EA		Temporary 30" x 36" Aluminum Engineer Grade Traffic Sign For Detours	194.34	
			For Hi-Intensity Grade, Add	35.40	
01 55 26 00-0211	EA		Temporary 30" x 42" Aluminum Engineer Grade Traffic Sign For Detours	214.01	
			For Hi-Intensity Grade, Add	41.30	
01 55 26 00-0212	EA		Temporary 30" x 48" Aluminum Engineer Grade Traffic Sign For Detours	247.55	
			For Hi-Intensity Grade, Add	47.20	
01 55 26 00-0213	EA		Temporary 30" x 60" Aluminum Engineer Grade Traffic Sign For Detours	300.76	
			For Hi-Intensity Grade, Add	59.00	
01 55 26 00-0214	EA		Temporary 36" x 36" Aluminum Engineer Grade Traffic Sign For Detours	217.94	
			For Hi-Intensity Grade, Add	42.48	
01 55 26 00-0215	EA		Temporary 36" x 42" Aluminum Engineer Grade Traffic Sign For Detours	255.42	
			For Hi-Intensity Grade, Add	49.56	
01 55 26 00-0216	EA		Temporary 36" x 48" Aluminum Engineer Grade Traffic Sign For Detours	292.90	
			For Hi-Intensity Grade, Add	56.64	
01 55 26 00-0217	EA		Temporary 36" x 54" Aluminum Engineer Grade Traffic Sign For Detours	316.50	
			For Hi-Intensity Grade, Add	63.72	
01 55 26 00-0218	EA		Temporary 36" x 60" Aluminum Engineer Grade Traffic Sign For Detours	353.98	
			For Hi-Intensity Grade, Add	70.80	
01 55 26 00-0219	EA		Temporary 36" x 73" Aluminum Engineer Grade Traffic Sign For Detours	418.99	
			For Hi-Intensity Grade, Add	86.14	
01 55 26 00-0220	EA		Temporary 36" x 78" Aluminum Engineer Grade Traffic Sign For Detours	438.65	
			For Hi-Intensity Grade, Add	92.03	
01 55 26 00-0221	EA		Temporary 36" x 108" Aluminum Engineer Grade Traffic Sign For Detours	577.47	
			For Hi-Intensity Grade, Add	127.43	
01 55 26 00-0222	EA		Temporary 42" x 42" Aluminum Engineer Grade Traffic Sign For Detours	296.83	
			For Hi-Intensity Grade, Add	57.82	
01 55 26 00-0223	EA		Temporary 48" x 48" Aluminum Engineer Grade Traffic Sign For Detours	369.71	
			For Hi-Intensity Grade, Add	75.52	
01 55 26 00-0224	EA		Temporary 48" x 54" Aluminum Engineer Grade Traffic Sign For Detours	415.05	
			For Hi-Intensity Grade, Add	84.95	
01 55 26 00-0225	EA		Temporary 48" x 60" Aluminum Engineer Grade Traffic Sign For Detours	446.52	
			For Hi-Intensity Grade, Add	94.40	
01 55 26 00-0226	EA		Temporary 48" x 66" Aluminum Engineer Grade Traffic Sign For Detours	498.81	
			For Hi-Intensity Grade, Add	103.83	
01 55 26 00-0227	EA		Temporary 48" x 72" Aluminum Engineer Grade Traffic Sign For Detours	530.28	
			For Hi-Intensity Grade, Add	113.27	
01 55 26 00-0228	EA		Temporary 48" x 84" Aluminum Engineer Grade Traffic Sign For Detours	607.09	
			For Hi-Intensity Grade, Add	132.15	
01 55 26 00-0229	EA		Temporary 48" x 96" Aluminum Engineer Grade Traffic Sign For Detours	670.02	
			For Hi-Intensity Grade, Add	151.03	
01 55 26 00-0230	EA		Temporary 48" x 102" Aluminum Engineer Grade Traffic Sign For Detours	701.48	
			For Hi-Intensity Grade, Add	160.47	
01 55 26 00-0231	EA		Temporary 48" x 108" Aluminum Engineer Grade Traffic Sign For Detours	739.88	
			For Hi-Intensity Grade, Add	169.91	
01 55 26 00-0232	EA		Temporary 60" x 72" Aluminum Engineer Grade Traffic Sign For Detours	638.55	
			For Hi-Intensity Grade, Add	141.59	
01 55 26 00-0233	EA		Temporary 78" x 96" Aluminum Engineer Grade Traffic Sign For Detours	991.59	
			For Hi-Intensity Grade, Add	245.42	
01 55 26 00-0234			Temporary Overhead Sign Structures For Detours (01 55 26 00-0176)		
			Note: Including horizontal Z-bars.		
01 55 26 00-0235	SF		From 30 To 360 SF Signs For Temporary Overhead Sign Structures For Detours	22.50	
			For Over 10' High, Add	13.00	
01 55 26 00-0236			Temporary Sign Posts For Detours (01 55 26 00-0176)		
			Note: Excludes sign.		
01 55 26 00-0237			Temporary U-Channel Sign Posts For Detours (01 55 26 00-0236)		
			Note: Excludes digging and concrete.		
01 55 26 00-0238			Temporary Baked Enamel U-Channel Sign Posts For Detours (01 55 26 00-0237)		
01 55 26 00-0239	EA		Temporary 3' To 4' Baked Enamel U-Channel Sign Post Base For Detours	83.85	
01 55 26 00-0240	EA		Temporary 6' Baked Enamel U-Channel Sign Post For Detours	109.06	
01 55 26 00-0241	EA		Temporary 7' Baked Enamel U-Channel Sign Post For Detours	130.34	
01 55 26 00-0242	EA		Temporary 8' Baked Enamel U-Channel Sign Post For Detours	152.51	
01 55 26 00-0243	EA		Temporary 10' Baked Enamel U-Channel Sign Post For Detours	184.24	
01 55 26 00-0244	EA		Temporary 12' Baked Enamel U-Channel Sign Post For Detours	195.68	
01 55 26 00-0245			Temporary Galvanized Steel U-Channel Sign Posts For Detours (01 55 26 00-0237)		
01 55 26 00-0246	EA		Temporary 3' To 4' Galvanized Steel U-Channel Sign Post Base For Detours	89.45	
01 55 26 00-0247	EA		Temporary 6' Galvanized Steel U-Channel Sign Post For Detours	117.94	
01 55 26 00-0248	EA		Temporary 7' Galvanized Steel U-Channel Sign Post For Detours	150.43	
01 55 26 00-0249	EA		Temporary 8' Galvanized Steel U-Channel Sign Post For Detours	174.71	
01 55 26 00-0250	EA		Temporary 10' Galvanized Steel U-Channel Sign Post For Detours	200.41	
01 55 26 00-0251	EA		Temporary 12' Galvanized Steel U-Channel Sign Post For Detours	209.74	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 55 26 00-0252		Temporary Fiberglass Or Composite Plastic U-Channel Sign Posts For Detours (01 55 26 00-0237)	
01 55 26 00-0253	EA	Temporary 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base For Detours.....	82.53
01 55 26 00-0254	EA	Temporary 6' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	106.19
01 55 26 00-0255	EA	Temporary 7' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	126.88
01 55 26 00-0256	EA	Temporary 8' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	148.38
01 55 26 00-0257	EA	Temporary 10' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	176.75
01 55 26 00-0258	EA	Temporary 12' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	191.24
01 55 26 00-0259		Temporary Tubular Sign Posts For Detours (01 55 26 00-0236)	
		Note: Excludes digging and concrete.	
01 55 26 00-0260		Temporary 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours (01 55 26 00-0259)	
01 55 26 00-0261	EA	Temporary 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	118.86
01 55 26 00-0262	EA	Temporary 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	141.31
01 55 26 00-0263	EA	Temporary 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	166.57
01 55 26 00-0264	EA	Temporary 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	212.56
01 55 26 00-0265	EA	Temporary 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	230.17
01 55 26 00-0266		Temporary Square Sign Posts For Detours (01 55 26 00-0236)	
		Note: Excludes digging and concrete.	
01 55 26 00-0267		Temporary Galvanized Steel Square Sign Posts For Detours (01 55 26 00-0266)	
01 55 26 00-0268	EA	Temporary 3' To 4' Galvanized Steel Square Sign Post Base For Detours	90.69
01 55 26 00-0269	EA	Temporary 6' Galvanized Steel Square Sign Post For Detours	138.98
01 55 26 00-0270	EA	Temporary 7' Galvanized Steel Square Sign Post For Detours	163.52
01 55 26 00-0271	EA	Temporary 8' Galvanized Steel Square Sign Post For Detours	190.73
01 55 26 00-0272	EA	Temporary 10' Galvanized Steel Square Sign Post For Detours	232.73
01 55 26 00-0273	EA	Temporary 12' Galvanized Steel Square Sign Post For Detours	250.45
01 55 26 00-0274		Temporary Breakaway Sign Posts And Bases For Detours (01 55 26 00-0176)	
		Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit. Excludes sign.	
01 55 26 00-0275		Temporary 2.5 Lb./LF Breakaway Sign Posts And Base Posts For Detours (01 55 26 00-0274)	
01 55 26 00-0276		Temporary Base Posts, 2.5 Lb./LF, For Breakaway Sign Posts For Detours (01 55 26 00-0275)	
01 55 26 00-0277	EA	Temporary Base Post for 2.5 Lb./LF, Breakaway Sign Post For Detours	105.36
01 55 26 00-0278	EA	Temporary Lap Splice Hardware For 2.5 Lb./LF, Breakaway Sign Post For Detours	66.03
01 55 26 00-0279		Temporary Breakaway Sign Posts, 2.5 Lb./LF For Detours (01 55 26 00-0275)	
01 55 26 00-0280	LF	Temporary Breakaway Sign Post, 2.5 Lb./LF For Detours.....	12.34
01 55 26 00-0281		Temporary 4 Lb./LF Breakaway Sign Posts And Base Posts For Detours (01 55 26 00-0274)	
01 55 26 00-0282		Temporary Base Posts, 4 Lb./LF, For Breakaway Sign Posts For Detours (01 55 26 00-0281)	
01 55 26 00-0283	EA	Temporary Base Post for 4 Lb./LF, Breakaway Sign Post For Detours	108.84
01 55 26 00-0284	EA	Temporary Lap Splice Hardware for 4 Lb./LF, Breakaway Sign Post For Detours	66.03
01 55 26 00-0285		Temporary Breakaway Sign Posts, 4 Lb./LF For Detours (01 55 26 00-0281)	
01 55 26 00-0286	LF	Temporary Breakaway Sign Post, 4 Lb./LF For Detours.....	14.50
01 55 26 00-0287		Temporary Driven Sign Posts For Detours (01 55 26 00-0274)	
01 55 26 00-0288		Temporary Driven Posts, 2.5 Lb./LF For Detours (01 55 26 00-0287)	
01 55 26 00-0289	LF	Temporary Driven Post, 2.5 Lb./LF For Detours	14.19
		For Each Soil Plate, Add	3.00
01 55 26 00-0290		Temporary Driven Posts, 4 Lb./LF For Detours (01 55 26 00-0287)	
01 55 26 00-0291	LF	Temporary Driven Post, 4 Lb./LF For Detours	17.29
		For Each Soil Plate, Add	3.00
01 55 26 00-0292		Temporary Omni-Directional Breakaway System For Sign Posts And Light Poles For Detours (01 55 26 00-0274)	
01 55 26 00-0293		Temporary Omni-Directional Breakaway Systems For Signs For Detours (01 55 26 00-0292)	
		Note: Break-Safe as manufactured by Transpo Industries. Organized by post type and size. Includes hinges, anchors, all associated parts and drilling.	
01 55 26 00-0294	EA	Temporary Omni-Directional Breakaway System For 6" To 8" Wide Flange (Transpo B525)	1,189.55



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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0295	EA	Temporary Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650)	1,267.66	
01 55 26 00-0296	EA	Temporary Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo AI4 And AI6)	869.05	
01 55 26 00-0297	EA	Temporary Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	761.16	
01 55 26 00-0298	EA	Temporary Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	863.06	
01 55 26 00-0299	EA	Temporary Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6)	821.11	
01 55 26 00-0300	EA	Temporary Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6)	772.55	
01 55 26 00-0301		Temporary Omni-Directional Breakaway Systems For Poles For Detours (01 55 26 00-0292) Note: Pole-Safe As Manufactured By Transpo Industries. Organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retrofitting existing poles.		
01 55 26 00-0302	EA	Temporary Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	426.05	
01 55 26 00-0303	EA	Temporary Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	446.72	
01 55 26 00-0304	EA	Temporary Omni-Directional Breakaway System For Poles With 1" Couplings.....	463.88	
01 55 26 00-0305	EA	Temporary Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	704.37	
01 55 26 00-0306	EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15"	61.85	
01 55 26 00-0307	EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20"	82.46	
01 55 26 00-0308		Temporary Rumble Strips (01 55 26) Note: Includes removal after use.		
01 55 26 00-0309	LF	1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	13.97	
01 55 26 00-0310	LF	1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	10.05	
01 56		Temporary Barriers and Enclosures (01 50) Note: Includes removal after use.		
01 56 16		Temporary Dust Barriers (01 56)		
01 56 16 00-0001		Temporary Sheeting For Protection (01 56 16) Note: Includes removal after use.		
01 56 16 00-0002	SF	6 Mil, Plastic Sheeting, Applied To Floors	0.40	
01 56 16 00-0003	SF	6 Mil, Plastic Sheeting, Applied To Walls..... Note: Includes removal after use.	0.51	
01 56 16 00-0004	SF	6 Mil, Plastic Sheeting, Applied To Ceilings..... Note: Includes removal after use.	0.68	
01 56 16 00-0005	SF	6 Mil, Plastic Sheeting, Applied To Scaffolding..... Note: Includes removal after use.	0.67	
01 56 16 00-0006	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors..... Note: Includes removal after use.	0.49	
01 56 16 00-0007	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls..... Note: Includes removal after use.	0.60	
01 56 16 00-0008	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings..... Note: Includes removal after use.	0.77	
01 56 16 00-0009	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding	0.72	
01 56 16 00-0010	SF	10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding..... Note: Includes removal after use.	0.94	
01 56 16 00-0011	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Floors..... Note: Includes removal after use.	0.52	
01 56 16 00-0012	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Walls	0.63	
01 56 16 00-0013	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Ceilings	0.80	
01 56 16 00-0014	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Scaffolding	0.75	
01 56 16 00-0015	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Floors	0.51	
01 56 16 00-0016	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Walls	0.62	
01 56 16 00-0017	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings	0.79	
01 56 16 00-0018	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding	0.74	
01 56 16 00-0019	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors	0.58	
01 56 16 00-0020	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls..... Note: Includes removal after use.	0.69	
01 56 16 00-0021	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings..... Note: Includes removal after use.	0.86	
01 56 16 00-0022	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding..... Note: Includes removal after use.	0.81	
01 56 16 00-0023		Temporary Canvas For Protection (01 56 16) Note: Includes removal after use.		
01 56 16 00-0024	SF	Heavy-Duty Woven Water Repellant Canvas, Applied To Walls	1.05	

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



MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
01 56 16 00-0025		Accessories For Temporary Sheeting (01 56 16)			
		Note: Includes removal after use.			
01 56 16 00-0026	EA	7' Zipper Door For Plastic Sheeting		25.26	
		Note: Includes removal after use.			
01 56 16 00-0027	LF	Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....		10.04	
		Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors. Includes removal after use.			
01 56 16 00-0028		Temporary Critical Barriers For Protection (01 56 16)			
		Note: Includes removal after use.			
01 56 16 00-0029	EA	Up To 1 SF Individual Critical Barriers For Outlets And Receptacles		13.78	
		Note: Includes removal after use.			
01 56 16 00-0030	EA	>1 To 4 SF Individual Critical Barriers For Diffusers, Ceiling Speakers, Return Grilles, etc.		20.88	
		Note: Includes removal after use.			
01 56 16 00-0031	EA	>4 To 8 SF Individual Critical Barriers For Diffusers, Return Grilles, Access Doors, Light Fixtures, etc.....		28.06	
		Note: Includes removal after use.			
01 56 16 00-0032	EA	>8 To 32 SF Individual Critical Barriers For Doors, Windows, etc.		43.84	
		Note: Includes removal after use.			
01 56 16 00-0033		Temporary Stud Wall (01 56 16)			
		Note: Includes removal after use.			
01 56 16 00-0034		Temporary Stud Wall With Drywall (01 56 16 00-0033)			
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.			
01 56 16 00-0035		Temporary Stud Wall With Drywall (01 56 16 00-0034)			
01 56 16 00-0036	SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center		7.31	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	
01 56 16 00-0037	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center		7.31	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	
01 56 16 00-0038	SF	5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center		7.44	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	
01 56 16 00-0039	SF	3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center		10.15	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.16	
01 56 16 00-0040	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center		10.15	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.16	
01 56 16 00-0041	SF	5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center		10.39	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.16	
01 56 16 00-0042		Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0034)			
01 56 16 00-0043	SF	1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center		7.45	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	
01 56 16 00-0044	SF	5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center		7.49	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	
01 56 16 00-0045	SF	5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center		7.42	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	
01 56 16 00-0046	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....		8.37	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	
01 56 16 00-0047	SF	1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....		10.43	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.16	
01 56 16 00-0048	SF	5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....		10.51	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.16	
01 56 16 00-0049	SF	5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center		10.37	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.16	
01 56 16 00-0050	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....		12.25	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.16	
01 56 16 00-0051		Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0033)			
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.			
01 56 16 00-0052	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....		7.13	
		Note: Includes removal after use.			
		<i>For Metal Studs 24" On Center, Add/Deduct</i>		1.04	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0053	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.17		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.04		
01 56 16 00-0054	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.31		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.04		
01 56 16 00-0055	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.39		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.04		
01 56 16 00-0056	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.77		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0057	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	9.87		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0058	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.15		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0059	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.30		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0060		Temporary Stud Wall With BC Plywood (01 56 16 00-0033)			
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.			
01 56 16 00-0061	SF	3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.46		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.04		
01 56 16 00-0062	SF	1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.64		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.04		
01 56 16 00-0063	SF	5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.84		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.04		
01 56 16 00-0064	SF	3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	8.00		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.04		
01 56 16 00-0065	SF	3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.43		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0066	SF	1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.79		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0067	SF	5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	11.21		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0068	SF	3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	11.52		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	1.16		
01 56 16 00-0069		Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0033)			
		Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.			
01 56 16 00-0070	SF	6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.18		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	0.91		
01 56 16 00-0071	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.26		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	0.91		
01 56 16 00-0072	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.29		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	0.91		
01 56 16 00-0073	SF	6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.28		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	0.91		
01 56 16 00-0074	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.36		
		Note: Includes removal after use.			
		For Metal Studs 24" On Center, Add/Deduct	0.91		
01 56 16 00-0075		Temporary Doors (01 56 16 00-0033)			
		Note: For temporary stud walls. Includes removal after use.			
01 56 16 00-0076	EA	Temporary Metal Door And Frame	673.73		
		Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.			
01 56 16 00-0077		Temporary Floor Protection (01 56 16)			
		Note: Includes removal after use.			
01 56 16 00-0078	SF	1/8" Thick, Masonite For Temporary Floor Protection.....	1.86		
		Note: Includes removal after use.			
01 56 16 00-0079	SF	1/2" Thick, Plywood For Temporary Floor Protection.....	1.97		
		Note: Includes removal after use.			

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0080	SF		3/4" Thick, Plywood For Temporary Floor Protection..... Note: Includes removal after use.	2.22	
01 56 16 00-0081	LF		38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection..... Note: Includes removal after use.	0.90	
01 56 16 00-0082	LF		36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection..... Note: Includes removal after use.	0.35	
01 56 16 00-0083	CSF		3 Mil, Temporary Self-adhesive Carpet Protection Film..... Note: Includes removal after use.	28.04	
01 56 16 00-0084	SF		Burlap For Temporary Floor Protection..... Note: Includes removal after use.	0.75	
01 56 16 00-0085	LF		36" Wide, 10 Mil, Non-Flame Retardant, Leak-Proof, Dust-Free And Slip Resistant, Reusable Protective Floor Covering For Temporary Floor Protection..... Note: Includes removal after use.	0.64	
			<i>For Seam Tape, Add Per LF</i>	0.27	
01 56 16 00-0086	LF		36" Wide, 10 Mil, Flame Retardant, Leak-Proof, Dust-Free And Slip Resistant, Reusable Protective Floor Covering For Temporary Floor Protection..... Note: Includes removal after use.	0.74	
			<i>For Seam Tape, Add Per LF</i>	0.27	
01 56 16 00-0087			Sticky Mats (01 56 16) Note: Includes removal after use.		
01 56 16 00-0088	EA		18" x 36", 30 Layer Sticky Mat..... Note: Includes removal after use.	38.73	
			<i>For 60 Layers Instead Of 30, Add</i>	25.58	
01 56 16 00-0089	EA		18" x 46", 30 Layer Sticky Mat..... Note: Includes removal after use.	44.42	
			<i>For 60 Layers Instead Of 30, Add</i>	29.85	
01 56 16 00-0090	EA		24" x 36", 30 Layer Sticky Mat..... Note: Includes removal after use.	44.42	
			<i>For 60 Layers Instead Of 30, Add</i>	29.85	
01 56 16 00-0091	EA		25" x 45", 30 Layer Sticky Mat..... Note: Includes removal after use.	58.63	
			<i>For 60 Layers Instead Of 30, Add</i>	40.51	
01 56 16 00-0092	EA		36" x 36", 30 Layer Sticky Mat..... Note: Includes removal after use.	64.32	
			<i>For 60 Layers Instead Of 30, Add</i>	44.78	
01 56 16 00-0093	EA		36" x 46", 30 Layer Sticky Mat..... Note: Includes removal after use.	70.00	
			<i>For 60 Layers Instead Of 30, Add</i>	49.04	
01 56 16 00-0094	EA		36" x 60", 30 Layer Sticky Mat..... Note: Includes removal after use.	141.08	
			<i>For 60 Layers Instead Of 30, Add</i>	102.35	
01 56 16 00-0095	EA		36" x 72", 30 Layer Sticky Mat..... Note: Includes removal after use.	168.37	
01 56 26			Temporary Fencing (01 56)		
01 56 26 00-0001			Temporary Fencing (01 56 26) Note: Per ASTM A392-06 Standards		
01 56 26 00-0002			Temporary Chain Link Fence (01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0003			Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004	LF		Temporary 4' High Chain Link Fence And Posts, Up To 6 Months.....	7.05	
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.34	
			<i>For >500, Deduct</i>	-0.50	
			<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0005	LF		Temporary 6' High Chain Link Fence And Posts, Up To 6 Months.....	7.85	
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.38	
			<i>For >500, Deduct</i>	-0.57	
			<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0006	LF		Temporary 8' High Chain Link Fence And Posts, Up To 6 Months.....	10.82	
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.64	
			<i>For >500, Deduct</i>	-0.96	
			<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0007	LF		Temporary 10' High Chain Link Fence And Posts, Up To 6 Months.....	23.86	
			<i>For >100 To 250, Deduct</i>	-0.95	
			<i>For >250 To 500, Deduct</i>	-1.90	
			<i>For >500, Deduct</i>	-2.84	
			<i>For Each LF Shade Cloth, Add</i>	4.75	
01 56 26 00-0008			Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009	LF		Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months.....	7.39	
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.37	
			<i>For >500, Deduct</i>	-0.55	
			<i>For Each LF Shade Cloth, Add</i>	1.60	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0010	LF		Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months	8.22	
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.42	
			For >500, Deduct	-0.62	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0011	LF		Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months	11.45	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.05	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0012	LF		Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	25.75	
			For >100 To 250, Deduct	-1.04	
			For >250 To 500, Deduct	-2.09	
			For >500, Deduct	-3.13	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)					
01 56 26 00-0014	LF		Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months	7.76	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.41	
			For >500, Deduct	-0.61	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0015	LF		Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months	8.65	
			For >100 To 250, Deduct	-0.23	
			For >250 To 500, Deduct	-0.46	
			For >500, Deduct	-0.69	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0016	LF		Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months	12.16	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.77	
			For >500, Deduct	-1.16	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0017	LF		Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months	27.84	
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-3.44	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)					
01 56 26 00-0019	LF		Temporary 4' High Chain Link Fence And Posts, >18 Months	8.16	
			For >100 To 250, Deduct	-0.22	
			For >250 To 500, Deduct	-0.45	
			For >500, Deduct	-0.67	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020	LF		Temporary 6' High Chain Link Fence And Posts, >18 Months	9.07	
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.50	
			For >500, Deduct	-0.75	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021	LF		Temporary 8' High Chain Link Fence And Posts, >18 Months	12.92	
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.27	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022	LF		Temporary 10' High Chain Link Fence And Posts, >18 Months.....	30.12	
			For >100 To 250, Deduct	-1.26	
			For >250 To 500, Deduct	-2.52	
			For >500, Deduct	-3.78	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)					
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0080 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.					
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)					
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)					
01 56 26 00-0026	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	282.56	
			For Each LF Shade Cloth, Add	15.92	
01 56 26 00-0027	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	479.65	
			For Each LF Shade Cloth, Add	39.79	
01 56 26 00-0028	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	537.21	
			For Each LF Shade Cloth, Add	47.75	
01 56 26 00-0029	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	611.40	
			For Each LF Shade Cloth, Add	59.69	
01 56 26 00-0030	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	732.51	
			For Each LF Shade Cloth, Add	79.58	
01 56 26 00-0031	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	815.17	
			For Each LF Shade Cloth, Add	95.50	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)					

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0033	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	302.45	
			<i>For Each LF Shade Cloth, Add</i>	25.37	
01 56 26 00-0034	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	517.85	
			<i>For Each LF Shade Cloth, Add</i>	63.42	
01 56 26 00-0035	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	581.25	
			<i>For Each LF Shade Cloth, Add</i>	76.10	
01 56 26 00-0036	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	673.36	
			<i>For Each LF Shade Cloth, Add</i>	95.12	
01 56 26 00-0037	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	814.04	
			<i>For Each LF Shade Cloth, Add</i>	126.83	
01 56 26 00-0038	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	923.35	
			<i>For Each LF Shade Cloth, Add</i>	152.20	
01 56 26 00-0039			8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	337.68	
			<i>For Each LF Shade Cloth, Add</i>	35.81	
01 56 26 00-0041	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	593.24	
			<i>For Shade Cloth, Add</i>	89.53	
01 56 26 00-0042	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	663.64	
			<i>For Shade Cloth, Add</i>	107.43	
01 56 26 00-0043	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	759.56	
			<i>For Shade Cloth, Add</i>	134.29	
01 56 26 00-0044	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	928.30	
			<i>For Shade Cloth, Add</i>	179.06	
01 56 26 00-0045	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,076.71	
			<i>For Shade Cloth, Add</i>	214.87	
01 56 26 00-0046			10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	409.23	
			<i>For Each LF Shade Cloth, Add</i>	47.25	
01 56 26 00-0048	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	711.72	
			<i>For Each LF Shade Cloth, Add</i>	118.13	
01 56 26 00-0049	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	797.76	
			<i>For Each LF Shade Cloth, Add</i>	141.75	
01 56 26 00-0050	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	911.75	
			<i>For Each LF Shade Cloth, Add</i>	177.19	
01 56 26 00-0051	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,114.57	
			<i>For Each LF Shade Cloth, Add</i>	236.26	
01 56 26 00-0052	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,286.86	
			<i>For Each LF Shade Cloth, Add</i>	283.51	
01 56 26 00-0053			Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054			4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	293.22	
			<i>For Each LF Shade Cloth, Add</i>	15.92	
01 56 26 00-0056	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	496.23	
			<i>For Each LF Shade Cloth, Add</i>	39.79	
01 56 26 00-0057	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	556.15	
			<i>For Each LF Shade Cloth, Add</i>	47.75	
01 56 26 00-0058	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	632.72	
			<i>For Each LF Shade Cloth, Add</i>	59.69	
01 56 26 00-0059	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	758.57	
			<i>For Each LF Shade Cloth, Add</i>	79.58	
01 56 26 00-0060	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months	843.59	
			<i>For Each LF Shade Cloth, Add</i>	95.50	
01 56 26 00-0061			6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	313.59	
			<i>For Each LF Shade Cloth, Add</i>	25.37	
01 56 26 00-0063	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	535.18	
			<i>For Each LF Shade Cloth, Add</i>	63.42	
01 56 26 00-0064	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	601.06	
			<i>For Each LF Shade Cloth, Add</i>	76.10	
01 56 26 00-0065	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	695.65	
			<i>For Each LF Shade Cloth, Add</i>	95.12	
01 56 26 00-0066	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	841.28	
			<i>For Each LF Shade Cloth, Add</i>	126.83	
01 56 26 00-0067	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months	953.06	
			<i>For Each LF Shade Cloth, Add</i>	152.20	
01 56 26 00-0068			8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	349.93	
			<i>For Each LF Shade Cloth, Add</i>	35.81	
01 56 26 00-0070	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	612.31	
			<i>For Shade Cloth, Add</i>	89.53	
01 56 26 00-0071	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	685.43	
			<i>For Shade Cloth, Add</i>	107.43	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
01 56 26 00-0072	EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	784.08		
	For Shade Cloth, Add	134.29		
01 56 26 00-0073	EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	958.27		
	For Shade Cloth, Add	179.06		
01 56 26 00-0074	EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,109.39		
	For Shade Cloth, Add	214.87		
01 56 26 00-0075	10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)			
01 56 26 00-0076	EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	424.55		
	For Each LF Shade Cloth, Add	47.25		
01 56 26 00-0077	EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	735.55		
	For Each LF Shade Cloth, Add	118.13		
01 56 26 00-0078	EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	825.00		
	For Each LF Shade Cloth, Add	141.75		
01 56 26 00-0079	EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	942.40		
	For Each LF Shade Cloth, Add	177.19		
01 56 26 00-0080	EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,152.02		
	For Each LF Shade Cloth, Add	236.26		
01 56 26 00-0081	EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,327.72		
	For Each LF Shade Cloth, Add	283.51		
01 56 26 00-0082	Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)			
01 56 26 00-0083	4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)			
01 56 26 00-0084	EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	304.41		
	For Each LF Shade Cloth, Add	15.92		
01 56 26 00-0085	EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	513.64		
	For Each LF Shade Cloth, Add	39.79		
01 56 26 00-0086	EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	576.05		
	For Each LF Shade Cloth, Add	47.75		
01 56 26 00-0087	EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	655.10		
	For Each LF Shade Cloth, Add	59.69		
01 56 26 00-0088	EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	785.92		
	For Each LF Shade Cloth, Add	79.58		
01 56 26 00-0089	EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	873.43		
	For Each LF Shade Cloth, Add	95.50		
01 56 26 00-0090	6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)			
01 56 26 00-0091	EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	325.29		
	For Each LF Shade Cloth, Add	25.37		
01 56 26 00-0092	EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	553.38		
	For Each LF Shade Cloth, Add	63.42		
01 56 26 00-0093	EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	621.86		
	For Each LF Shade Cloth, Add	76.10		
01 56 26 00-0094	EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	719.05		
	For Each LF Shade Cloth, Add	95.12		
01 56 26 00-0095	EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	869.88		
	For Each LF Shade Cloth, Add	126.83		
01 56 26 00-0096	EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	984.26		
	For Each LF Shade Cloth, Add	152.20		
01 56 26 00-0097	8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)			
01 56 26 00-0098	EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	362.80		
	For Each LF Shade Cloth, Add	35.81		
01 56 26 00-0099	EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	632.33		
	For Shade Cloth, Add	89.53		
01 56 26 00-0100	EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	708.31		
	For Shade Cloth, Add	107.43		
01 56 26 00-0101	EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	809.82		
	For Shade Cloth, Add	134.29		
01 56 26 00-0102	EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	989.72		
	For Shade Cloth, Add	179.06		
01 56 26 00-0103	EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,143.71		
	For Shade Cloth, Add	214.87		
01 56 26 00-0104	10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)			
01 56 26 00-0105	EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	440.64		
	For Each LF Shade Cloth, Add	47.25		
01 56 26 00-0106	EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	760.57		
	For Each LF Shade Cloth, Add	118.13		
01 56 26 00-0107	EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	853.60		
	For Each LF Shade Cloth, Add	141.75		
01 56 26 00-0108	EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	974.57		
	For Each LF Shade Cloth, Add	177.19		
01 56 26 00-0109	EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,191.35		
	For Each LF Shade Cloth, Add	236.26		
01 56 26 00-0110	EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,370.62		
	For Each LF Shade Cloth, Add	283.51		

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0111		Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112		4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	315.60	
		For Each LF Shade Cloth, Add	15.92	
01 56 26 00-0114	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	531.05	
		For Each LF Shade Cloth, Add	39.79	
01 56 26 00-0115	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	595.94	
		For Each LF Shade Cloth, Add	47.75	
01 56 26 00-0116	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	677.48	
		For Each LF Shade Cloth, Add	59.69	
01 56 26 00-0117	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	813.28	
		For Each LF Shade Cloth, Add	79.58	
01 56 26 00-0118	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	903.28	
		For Each LF Shade Cloth, Add	95.50	
01 56 26 00-0119		6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	336.99	
		For Each LF Shade Cloth, Add	25.37	
01 56 26 00-0121	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	571.58	
		For Each LF Shade Cloth, Add	63.42	
01 56 26 00-0122	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	642.66	
		For Each LF Shade Cloth, Add	76.10	
01 56 26 00-0123	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	742.45	
		For Each LF Shade Cloth, Add	95.12	
01 56 26 00-0124	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	898.48	
		For Each LF Shade Cloth, Add	126.83	
01 56 26 00-0125	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	1,015.46	
		For Each LF Shade Cloth, Add	152.20	
01 56 26 00-0126		8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0127	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	375.67	
		For Each LF Shade Cloth, Add	35.81	
01 56 26 00-0128	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	652.35	
		For Shade Cloth, Add	89.53	
01 56 26 00-0129	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	731.19	
		For Shade Cloth, Add	107.43	
01 56 26 00-0130	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	835.56	
		For Shade Cloth, Add	134.29	
01 56 26 00-0131	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,021.18	
		For Shade Cloth, Add	179.06	
01 56 26 00-0132	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,178.03	
		For Shade Cloth, Add	214.87	
01 56 26 00-0133		10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	456.73	
		For Each LF Shade Cloth, Add	47.25	
01 56 26 00-0135	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	785.60	
		For Each LF Shade Cloth, Add	118.13	
01 56 26 00-0136	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	882.20	
		For Each LF Shade Cloth, Add	141.75	
01 56 26 00-0137	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,006.74	
		For Each LF Shade Cloth, Add	177.19	
01 56 26 00-0138	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,230.67	
		For Each LF Shade Cloth, Add	236.26	
01 56 26 00-0139	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,413.52	
		For Each LF Shade Cloth, Add	283.51	
01 56 26 00-0140		Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
		Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141		Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142	LF	Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	7.70	
		For >100 To 250, Deduct	-0.20	
		For >250 To 500, Deduct	-0.40	
		For >500, Deduct	-0.60	
		For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143	LF	Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	8.56	
		For >100 To 250, Deduct	-0.22	
		For >250 To 500, Deduct	-0.45	
		For >500, Deduct	-0.67	
		For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0144	LF	Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	11.68	
		For >100 To 250, Deduct	-0.36	
		For >250 To 500, Deduct	-0.72	
		For >500, Deduct	-1.09	
		For Each LF Shade Cloth, Add	3.60	



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

Σ

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	8.05	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.65	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months	8.93	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.49	
For >500, Deduct	-0.73	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months	12.30	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.79	
For >500, Deduct	-1.18	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months	8.39	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.47	
For >500, Deduct	-0.70	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	9.36	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.53	
For >500, Deduct	-0.79	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	13.02	
For >100 To 250, Deduct	-0.43	
For >250 To 500, Deduct	-0.86	
For >500, Deduct	-1.29	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	8.82	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.51	
For >500, Deduct	-0.77	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	9.79	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.57	
For >500, Deduct	-0.86	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	13.76	
For >100 To 250, Deduct	-0.47	
For >250 To 500, Deduct	-0.93	
For >500, Deduct	-1.40	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag	6.98	
Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts	3.97	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts	5.97	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts	8.61	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts	10.60	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.92	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	1.11	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.25	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	120.28	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	138.79	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	171.17	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	185.05	

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



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
01 56 26 00-0174	Temporary Safety Fence ^(01 56 26) Note: Includes removal after use.			
01 56 26 00-0175	LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence		3.58	
01 56 29	Temporary Protective Walkways ^(01 56)			
01 56 29 00-0001	Temporary Sidewalk Bridge Protection ^(01 56 29)			
01 56 29 00-0002	Installation of Sidewalk Bridge ^(01 56 29 00-0001) Note: Excludes material rental. See CSI section 01 56 29 00-0005 for monthly rental x length.			
01 56 29 00-0003	LF Installation of Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		195.03	
	Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.			
	For 3 Post System, Add		6.00	
	For Each Additional Foot Over 8' Wide, Add		3.00	
	For Each Additional Foot Over 8' High, Add		2.00	
01 56 29 00-0004	LF Installation of Netting for Sidewalk Bridge		4.97	
01 56 29 00-0005	Monthly Rental of Sidewalk Bridge ^(01 56 29 00-0001) Note: Excludes installation set-up and removal. See CSI section 01 56 29 00-0002 for installation set-up, 01 56 29 00-0016 for removal.			
01 56 29 00-0006	LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		15.49	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		2.32	
01 56 29 00-0007	LF Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		17.45	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		2.62	
01 56 29 00-0008	LF Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		19.38	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		2.91	
01 56 29 00-0009	LF Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		19.38	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		2.91	
01 56 29 00-0010	LF Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		21.30	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		3.20	
01 56 29 00-0011	LF Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		25.21	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		3.78	
01 56 29 00-0012	LF Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		23.28	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		3.49	
01 56 29 00-0013	LF Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		27.15	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		4.07	
01 56 29 00-0014	LF Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		29.05	
	Note: Includes spanning openings, planking and parapet, lighting and maintenance.			
	For 3 Post System, Add		4.36	
01 56 29 00-0015	LF Monthly Rental of Netting for Sidewalk Bridge		2.90	
01 56 29 00-0016	Removal of Sidewalk Bridge ^(01 56 29 00-0001)			
01 56 29 00-0017	LF Removal Of Heavy-Duty Steel Post And Beam Sidewalk Bridge Assembly		40.60	
	Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.			
	For 3 Post System, Add		2.50	
	For Each Additional Foot Over 8' Wide, Add		1.25	
	For Each Additional Foot Over 8' High, Add		0.75	
01 56 29 00-0018	LF Removal Of Netting For Sidewalk Bridge		1.39	
01 56 29 00-0019	Temporary Safety Nets ^(01 56 29) Note: Includes removal after use.			
01 56 29 00-0020	SF Small Mesh Debris Netting		2.90	
	Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.			
01 56 33	Temporary Security Barriers ^(01 56)			
01 56 33 00-0001	Board-up Opening With Plywood ^(01 56 33) Note: For use where directed by owner for boarding up door and window openings.			
01 56 33 00-0002	OPNG Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day		13.88	
01 56 33 00-0003	SF 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening		8.87	



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

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
01 56 33 00-0004	SF	3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening	10.27	
01 56 33 00-0005 Temporary Pedestrian Barricade (01 56 33)				
Note: Portable, interlocking galvanized steel fence with pivoting legs.				
01 56 33 00-0006	DAY	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	14.47	
01 56 33 00-0007	WK	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	35.15	
01 56 33 00-0008	MO	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	105.44	
01 56 39 Temporary Tree and Plant Protection (01 56)				
01 56 39 00-0001 Temporary Tree Guards (01 56 39)				
Note: Includes digging holes and removal after use.				
01 56 39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	203.87	
01 56 39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	242.35	
01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	263.51	
01 57 Temporary Controls (01 50)				
01 57 13 Temporary Erosion and Sediment Control (01 57)				
See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.				
01 57 23 Temporary Storm Water Pollution Control (01 57)				
See CSI section 31 25 00 00-0000 for temporary storm water pollution control.				
01 57 23 00-0001 Temporary Drain Guard (01 57 23)				
Note: Includes removal after use.				
01 57 23 00-0002	EA	36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	112.43	
01 57 23 00-0003	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	110.31	
Note: Up to 0.87 gallons oil, up to 40 Lb. sediment.				
01 57 23 00-0004	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	140.26	
Note: Up to 1.38 gallons oil, up to 40 Lb. sediment.				
01 57 23 00-0005	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	138.11	
Note: Up to 1.55 gallons oil, up to 40 Lb. sediment.				
01 57 23 00-0006	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	170.22	
Note: Up to 2.06 gallons oil, up to 40 Lb. sediment.				
01 58 Project Identification (01 50)				
Note: Includes removal after use.				
01 58 13 Temporary Project Signage (01 58)				
01 58 13 00-0001 Project Sign (01 58 13)				
01 58 13 00-0002 MDO Plywood Signs (01 58 13 00-0001)				
Note: Excludes posts.				
01 58 13 00-0003 ReflectORIZED, MDO Plywood Signs (01 58 13 00-0002)				
01 58 13 00-0004 Engineer Grade, ReflectORIZED, MDO Plywood Signs (01 58 13 00-0003)				
01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign	162.34	25.45
For High-Intensity Grade, Add			39.00	
For Diamond Grade, Add			75.22	
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign.....	276.08	26.61
For High-Intensity Grade, Add			78.00	
For Diamond Grade, Add			150.44	
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign.....	389.83	27.76
For High-Intensity Grade, Add			117.01	
For Diamond Grade, Add			225.66	
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign.....	503.57	28.92
For High-Intensity Grade, Add			156.01	
For Diamond Grade, Add			300.87	
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign	15.78	0.92
For High-Intensity Grade, Add			4.88	
For Diamond Grade, Add			9.40	
01 58 13 00-0010 Non-ReflectORIZED, MDO Plywood Signs (01 58 13 00-0002)				
01 58 13 00-0011 One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Signs (01 58 13 00-0010)				
01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign.....	208.96	25.45
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign	249.00	26.61
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign	311.47	27.76
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign	370.47	28.92
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Sign	11.62	0.92
01 58 13 00-0017 Full Color Design, Non-ReflectORIZED, MDO Plywood Signs (01 58 13 00-0010)				
01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non-ReflectORIZED, MDO Plywood Sign	213.41	25.45

01	General Requirements
01 50	Temporary Facilities and Controls
01 58	Project Identification



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 58 13 00-0019 EA >8 To 16 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	272.99	26.61
01 58 13 00-0020 EA >16 To 24 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	335.85	27.76
01 58 13 00-0021 EA >24 To 32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	391.36	28.92
01 58 13 00-0022 SF >32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	12.27	0.92
01 58 13 00-0023 Fabricate And Install New Posts (01 58 13 00-0001) Note: Includes excavation, backfill and compaction. Excludes core drilling.		
01 58 13 00-0024 LF Galvanized Metal Channel Sign Posts	19.26	
01 58 13 00-0025 LF 4" x 4" Pressure Treated Wood Sign Posts	14.89	
01 58 13 00-0026 LF 4" x 6" Pressure Treated Wood Sign Posts	17.88	
01 58 13 00-0027 Owner Supplied Signs (01 58 13 00-0001)		
01 58 13 00-0028 EA Installation And Removal Of Owner Supplied Project Sign	92.54	

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

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

01 66 19 00-0001 Transfer Delivered Materials Between Floors (01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0002 CY Transfer Delivered Material Between Floors Via Stairs, Per Floor	17.80	
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip	11.57	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125' (01 66 19) Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	7.23	
01 66 19 00-0006 Transfer Demolition Debris Between Floors (01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor	17.80	
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip	11.57	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125' (01 66 19) Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'	7.23	
01 66 19 00-0011 Moving Furniture And Furnishings (01 66 19) Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings	1.16	
Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.		

01 70 Execution and Closeout Requirements (01)

01 71 Examination and Preparation (01 70)

01 71 13 Mobilization (01 71)

01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization (01 71 13) Note: Excludes flagman for traffic control where necessary. Per each mobilization delivery. See CSI section 01 22 23 00-0914 for cranes.		
01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	492.62	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.		
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed	1,536.72	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy-duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 71 13 00-0004	Crane Delivery, Pickup, Mobilization And Demobilization (01 71 13)			
Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.				
01 71 13 00-0005	EA	Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....	525.45	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				131.36
For >60 To 100 Miles Radius, Add				210.18
01 71 13 00-0006	EA	>20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane	853.86	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				213.47
For >60 To 100 Miles Radius, Add				341.54
01 71 13 00-0007	EA	>40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane	1,182.27	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				295.57
For >60 To 100 Miles Radius, Add				472.91
01 71 13 00-0008	EA	>70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane	1,904.76	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				476.19
For >60 To 100 Miles Radius, Add				761.90
01 71 13 00-0009	EA	>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane	2,390.81	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				597.70
For >60 To 100 Miles Radius, Add				956.32
01 71 13 00-0010	EA	>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane	2,975.37	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				743.84
For >60 To 100 Miles Radius, Add				1,190.15
01 71 13 00-0011	EA	>150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane	3,428.57	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				857.14
For >60 To 100 Miles Radius, Add				1,371.43
01 71 13 00-0012	EA	>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane	3,835.80	
Note: Includes delivery and pickup.				
For >30 To 60 Miles Radius, Add				958.95
For >60 To 100 Miles Radius, Add				1,534.32
01 71 13 00-0013	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	2,036.13	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				509.03
For >60 To 100 Miles Radius, Add				814.45
01 71 13 00-0014	EA	100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	3,218.40	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				804.60
For >60 To 100 Miles Radius, Add				1,287.36
01 71 13 00-0015	EA	125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	4,072.25	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				1,018.06
For >60 To 100 Miles Radius, Add				1,628.90
01 71 13 00-0016	EA	150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	5,057.47	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				1,264.37
For >60 To 100 Miles Radius, Add				2,022.99
01 71 13 00-0017	EA	200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	6,305.43	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				1,576.36
For >60 To 100 Miles Radius, Add				2,522.17
01 71 13 00-0018	EA	250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	7,356.33	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				1,839.08
For >60 To 100 Miles Radius, Add				2,942.53
01 71 13 00-0019	EA	300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	10,509.04	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				2,627.26
For >60 To 100 Miles Radius, Add				4,203.62
01 71 13 00-0020	EA	500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane	14,410.52	
Note: Includes delivery, rigging and pickup.				
For >30 To 60 Miles Radius, Add				3,602.63
For >60 To 100 Miles Radius, Add				5,764.21

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

01 71 23 16-0001

Conventional Topographic Survey (01 71 23 16)

Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.

01 71 23 16-0002	ACR	Conventional Topographic Survey Of Clear Area With Few To No Obstacles	1,319.09
01 71 23 16-0003	ACR	Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings)	3,681.49
01 71 23 16-0004	ACR	Conventional Topographic Survey Of Clear Area With Few Structures, And/or Wooded (5-25% Buildings)	5,288.56
01 71 23 16-0005	ACR	Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings)	7,938.60
01 71 23 16-0006	ACR	Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings)	9,933.61

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



MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
01 71 23 16-0007	Property Lines Survey (01 71 23 16)			
Note: Not to be added to tasks in the "Conventional Topographic Survey" section.				
01 71 23 16-0008	LF	Survey Property Lines On Cleared Land	2.92	
01 71 23 16-0009	LF	Survey Property Lines On Slightly Wooded Land	3.38	
01 71 23 16-0010	LF	Survey Property Lines On Wooded Land.....	3.95	
01 71 23 16-0011	Survey Monument (01 71 23 16)			
01 71 23 16-0012	EA	3' Precast Survey Monument.....	207.99	
For Owner Furnished Monument, Deduct			-82.45	
01 71 23 16-0013	EA	Precast Survey Monument Box With Cast Iron Frame And Cover.....	311.57	
01 71 23 16-0014	EA	Riser Ring For Survey Monument.....	160.82	
01 71 23 16-0015	EA	Reset/Relocate/Adjust Survey Monument Cover To Grade.....	247.35	
01 71 23 16-0016	Facade Surveying (01 71 23 16)			
01 71 23 16-0017	LF	Facade Survey And Reports (LF Of Facade x Number Of Floors)	8.02	
01 71 23 16-0018	Utility Survey (01 71 23 16)			
Note: This survey is only for the location of underground utilities.				
01 71 23 16-0019	ACR	Survey Clear Area For Underground Utilities.....	6,762.21	
01 71 23 16-0020	GPR Bridge Deck And Pavement Inspection (01 71 23 16)			
01 71 23 16-0021	GPR Bridge Deck And Pavement Inspection Mobilization Fee (01 71 23 16-0020)			
Note: One mobilization per project.				
01 71 23 16-0022	EA	GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	4,104.76	
01 71 23 16-0023	Bridge Deck Delamination Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)			
Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.				
01 71 23 16-0024	EA	Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	3,013.35	
01 71 23 16-0025	SF	Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	1.27	
01 71 23 16-0026	SF	>5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	1.00	
01 71 23 16-0027	SF	>10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.80	
01 71 23 16-0028	SF	>25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.60	
01 71 23 16-0029	SF	>50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.48	
01 71 23 16-0030	SF	>100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.38	
01 71 23 16-0031	SF	>250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.28	
01 71 23 16-0032	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)			
Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.				
01 71 23 16-0033	EA	Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	1,004.45	
01 71 23 16-0034	SF	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.06	
01 71 23 16-0035	Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)			
Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.				
01 71 23 16-0036	EA	Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	1,004.45	
01 71 23 16-0037	SF	Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	0.46	
01 71 23 16-0038	SF	>5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.36	
01 71 23 16-0039	SF	>10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.28	
01 71 23 16-0040	SF	>25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.22	
01 71 23 16-0041	SF	>50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.18	
01 71 23 16-0042	SF	>100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.14	
01 71 23 16-0043	SF	>250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.10	
01 71 23 16-0044	Pavement Structure And Thickness Measurement, GPR Pavement Inspection (01 71 23 16-0020)			
Note: Each project will use one task for the length of the pavement surveyed.				
01 71 23 16-0045	LM	Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	7,469.09	
01 71 23 16-0046	LM	>4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	3,256.43	
01 71 23 16-0047	LM	>9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,424.74	
01 71 23 16-0048	LM	>49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,323.87	
01 71 23 16-0049	LM	>99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,040.61	
01 71 23 16-0050	Pavement Thickness Contour (Mapping), GPR Pavement Inspection (01 71 23 16-0020)			
Note: Each project will use one task for the length of the pavement surveyed.				
01 71 23 16-0051	LM	Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	9,504.11	



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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0052	LM	>4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	4,469.80	
01 71 23 16-0053	LM	>9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	3,395.04	
01 71 23 16-0054	LM	>49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	1,902.43	
01 71 23 16-0055	LM	>99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection.....	1,504.67	
01 71 23 16-0056		Pavement Void Detection (Mapping), GPR Pavement Inspection (01 71 23 16-0020) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0057	LM	Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	11,286.00	
01 71 23 16-0058	LM	>4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	5,530.50	
01 71 23 16-0059	LM	>9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	4,242.80	
01 71 23 16-0060	LM	>49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	2,408.67	
01 71 23 16-0061	LM	>99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection.....	1,908.46	
01 71 23 16-0062		Drone Survey (Extreme Aerial Productions) (01 71 23 16) Note: Thermographic services to electrical line grid inspections.		
01 71 23 16-0063		Mobilization For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0064	EA	Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	270.04	
01 71 23 16-0065	EA	Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	675.11	
01 71 23 16-0066	EA	Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter.....	180.03	
01 71 23 16-0067	EA	Mobilization For Drone Road Survey For Topography/Progression/Inspection.....	360.06	
01 71 23 16-0068	EA	Mobilization For Drone Survey Stockpile.....	180.03	
01 71 23 16-0069	EA	Mobilization For Drone Inspection.....	180.03	
01 71 23 16-0070	EA	Mobilization For Qualitative Drone Thermal Inspection.....	360.06	
01 71 23 16-0071	EA	Mobilization For Quantitative Drone Thermal Inspection.....	450.08	
01 71 23 16-0072	EA	Mobilization For Drone Agricultural Multispectral Survey.....	720.12	
01 71 23 16-0073	EA	Mobilization For Drone Building Inspection/Scan/Thermal.....	540.09	
01 71 23 16-0074	EA	Mobilization For Drone 3D Modelling.....	450.08	
01 71 23 16-0075	EA	Mobilization For Drone Spraying Crops Or Sanitation.....	810.14	
01 71 23 16-0076	EA	Mobilization For Drone Video Progression/Marketing.....	180.03	
01 71 23 16-0077	EA	Mobilization For Drone Pictures Progression/Marketing.....	180.03	
01 71 23 16-0078	EA	Mobilization For Drone Training, Flying, Test Prep, Equipment Checks.....	180.03	
01 71 23 16-0079	EA	Mobilization For Drone Accident Reconstruction.....	180.03	
01 71 23 16-0080	EA	Mobilization For Drone Landfill Survey.....	270.04	
01 71 23 16-0081	EA	Mobilization For Drone Event Security Using Tethered Drones.....	360.06	
01 71 23 16-0082	EA	Mobilization For Drone Emergency Response.....	900.15	
01 71 23 16-0083	EA	Mobilization For Drone Cell Tower Inspection.....	270.04	
01 71 23 16-0084		Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0085	HR	Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	657.11	
		Note: 3 hour minimum		
		For Visual Observation, Add	180.03	
		For Additional Manpower, Add	180.03	
01 71 23 16-0086	HR	> 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	837.14	
		For Visual Observation, Add	270.04	
		For Additional Manpower, Add	216.04	
01 71 23 16-0087	HR	Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter.....	540.09	
		Note: 3 hour minimum		
		For Visual Observation, Add	180.03	
		For Additional Manpower, Add	180.03	
01 71 23 16-0088	HR	Drone Road Survey For Topography/Progression/Inspection.....	630.10	
		Note: 3 hour minimum		
		For Visual Observation, Add	270.04	
		For Additional Manpower, Add	180.03	
01 71 23 16-0089	HR	Drone Survey Stockpile.....	450.08	
		Note: 3 hour minimum		
		For Visual Observation, Add	180.03	
		For Additional Manpower, Add	180.03	
01 71 23 16-0090	HR	Drone Inspection.....	630.10	
		Note: 3 hour minimum		
		For Visual Observation, Add	180.03	
		For Additional Manpower, Add	180.03	
01 71 23 16-0091	HR	Qualitative Drone Thermal Inspection.....	720.12	
		Note: 5 hour minimum		
		For Visual Observation, Add	270.04	
		For Additional Manpower, Add	180.03	
01 71 23 16-0092	HR	Quantitative Drone Thermal Inspection.....	1,080.18	
		Note: 5 hour minimum		
		For Visual Observation, Add	270.04	
		For Additional Manpower, Add	180.03	
01 71 23 16-0093	HR	Drone Agricultural Multispectral Survey.....	810.14	
		Note: 6 hour minimum		
		For Visual Observation, Add	180.03	
		For Additional Manpower, Add	180.03	
01 71 23 16-0094	HR	Drone Building Inspection/Scan/Thermal.....	720.12	
		Note: 3 hour minimum		
		For Visual Observation, Add	270.04	
		For Additional Manpower, Add	180.03	

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



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0095	HR	Drone 3D Modelling Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	540.09 270.04 180.03	
01 71 23 16-0096	HR	Drone Spraying Crops Or Sanitation Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	720.12 225.04 180.03	
01 71 23 16-0097	HR	Drone Video Progression/Marketing Note: 2 hour minimum For Visual Observation, Add For Additional Manpower, Add	360.06 180.03 180.03	
01 71 23 16-0098	HR	Drone Pictures Progression/Marketing Note: 2 hour minimum For Visual Observation, Add For Additional Manpower, Add	270.04 180.03 180.03	
01 71 23 16-0099	HR	Drone Training, Flying, Test Prep, Equipment Checks Note: 3 hour minimum	540.09	
01 71 23 16-0100	HR	Drone Accident Reconstruction Note: 2 hour minimum For Visual Observation, Add For Additional Manpower, Add	810.14 180.03 180.03	
01 71 23 16-0101	HR	Drone Landfill Survey Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	657.11 180.03 180.03	
01 71 23 16-0102	HR	Drone Event Security Using Tethered Drones Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	450.08 180.03 180.03	
01 71 23 16-0103	HR	Drone Emergency Response Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	450.08 270.04 180.03	
01 71 23 16-0104	HR	Drone Cell Tower Inspection Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	450.08 225.04 180.03	
01 71 23 16-0105		Utilization And Deliverables For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0106	Day	Utilization Of GPS Ground Control For Drone Surveying.....	450.08	
01 71 23 16-0107	Day	Utilization Of GPS Base Station Per Day For Drone Surveying.....	450.08	
01 71 23 16-0108	HR	Processing And Data Deliverables And Reporting For Drone Surveying..... Note: 2 hour minimum	180.03	
01 71 23 16-0109	HR	Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying..... Note: 3 hour minimum	360.06	
01 71 23 16-0110		Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0111	MI	Travel Over 100 Miles For Drone Surveying Note: For additional miles over 100	1.04	
01 71 23 16-0112	EA	Overnight Stay Per Person For Drone Surveying	225.04	
01 71 23 16-0113	EA	Waiver Utilization B, C, D, And E For Drone Surveying Note: Restricted airspace	90.02	
01 71 23 16-0114	EA	Night Waiver For Drone Surveying	117.02	
01 71 23 16-0115	EA	Flying Over People Waiver For Drone Surveying	180.03	
01 71 23 16-0116	EA	Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....	900.15	
01 71 23 16-0117	HR	Editing Video For Drone Surveying..... Note: 2 hour minimum	180.03	
01 71 23 16-0118	HR	Editing Pictures For Drone Surveying..... Note: 2 hour minimum	90.02	
01 71 23 16-0119	HR	Custom Post Processing For Drone Surveying..... Note: 3 hour minimum	270.04	
01 71 36		Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001		Electromagnetic Survey (01 71 36) Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002		Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003	EA	Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,161.90	
01 71 36 00-0004	EA	>1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,742.85	
01 71 36 00-0005	EA	>4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	3,485.70	
01 71 36 00-0006		Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007	EA	Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	387.30	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt Note: Includes GPS coordinates of located items and reference items.	774.60	
01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt Note: Includes additions to the owner provided CAD drawing.	1,742.85	

01 74 Cleaning and Waste Management (01 74)

01 74 13 Progress Cleaning (01 74)

Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.

01 74 13 00-0001 General (01 74 13)

01 74 13 00-0002 CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	23.16
01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster	27.19

Note: Per CY of debris removed.

01 74 16 Site Maintenance (01 74)

01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance (01 74 16)

Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks.

01 74 16 00-0002 Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)

01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....	24.46
01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	29.37

01 74 16 00-0005 Runway Sweeping (01 74 16 00-0001)

01 74 16 00-0006 MSF Sweep Runway, With Street Sweep	36.71

01 74 19 Construction Waste Management and Disposal (01 74)

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

01 74 19 00-0001 Debris Chutes (01 74 19)

Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.

01 74 19 00-0002 Steel Temporary Debris Chutes (01 74 19 00-0001)

01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute.....	44.36
01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute.....	67.17

01 74 19 00-0005 Plastic Temporary Debris Chutes (01 74 19 00-0001)

01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute	17.56
For Steel Liner, Add	3.44
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute	20.13
For Steel Liner, Add	3.94
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute	22.70
For Steel Liner, Add	4.45

01 74 19 00-0009 Wood Temporary Debris Chutes (01 74 19 00-0001)

01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute	34.51

Note: Includes fabrication and installation.

01 74 19 00-0011 Construction Dumpsters Rental (01 74 19)

Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.

01 74 19 00-0012 EA 10 CY Dumpster (1 Ton) "Construction Debris".....	534.09
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
For Each Ton Over Indicated Amount, Add	98.50
01 74 19 00-0013 EA 15 CY Dumpster (2 Ton) "Construction Debris".....	596.85
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
For Each Ton Over Indicated Amount, Add	98.50
01 74 19 00-0014 EA 20 CY Dumpster (2 Ton) "Construction Debris".....	617.85
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
For Each Ton Over Indicated Amount, Add	98.50
01 74 19 00-0015 EA 30 CY Dumpster (3 Ton) "Construction Debris".....	745.13
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
For Each Ton Over Indicated Amount, Add	98.50
01 74 19 00-0016 EA 40 CY Dumpster (4 Ton) "Construction Debris".....	896.35
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
For Each Ton Over Indicated Amount, Add	98.50

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	786.23	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable.....	857.94	
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable	921.96	
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020 Concrete Washout Service (01 74 19)		
01 74 19 00-0021 MO Rampless Concrete Washout Bin	531.71	
Note: Includes delivery.		
01 74 19 00-0022 MO Ramped Concrete Washout Bin	638.06	
Note: Includes delivery.		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin	640.17	
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin	1,387.04	
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
01 74 19 00-0025 Debris Processing Fee (01 74 19)		
01 74 19 00-0026 Material Recycling Fees (01 74 19 00-0025)		
Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center	18.24	
01 74 19 00-0028 CY Drop-Off Non-Reinforced Concrete At Recycling Center.....	24.44	
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center.....	36.66	
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center.....	31.77	
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center.....	35.44	
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center.....	17.11	
01 74 19 00-0033 Landfill Dump Fees (01 74 19 00-0025)		
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0043 for hauling.		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee.....	16.26	
01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee.....	70.88	
01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee	19.58	
01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee.....	46.68	
Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.		
01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	33.17	
01 74 19 00-0039 CY Clean Dirt (No Grass, Weeds, Roots, Plants, Trash).....	54.36	
01 74 19 00-0040 CY Clay Loads, Expansive Materials.....	67.95	
01 74 19 00-0041 TON General Refuse.....	79.51	
01 74 19 00-0042 EA Tires.....	15.46	
01 74 19 00-0043 Hauling (01 74 19)		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0044 CYM Hauling On Paved Roads, First 15 Miles	1.02	
01 74 19 00-0045 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.68	
01 74 19 00-0046 CYM Hauling On Unimproved Roads, First 15 Miles.....	1.57	
01 74 19 00-0047 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.23	
01 74 23 Final Cleaning (01 74)		
01 74 23 00-0001 Cleaning Of Glass (01 74 23)		
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces	31.62	

END OF SECTION 01



Existing Conditions		02
Assessment		02 20
Existing Material Assessment		02 25

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 Existing Conditions

02 20 Assessment⁽⁰²⁾

02 25 Existing Material Assessment^(02 20)

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

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

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

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

02 30 Subsurface Investigation⁽⁰²⁾

02 32 Geotechnical Investigations^(02 30)

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

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

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

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,237.62

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

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 37.27

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

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 96.99

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 165.89

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

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 102.40

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 9.75

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

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 132.45

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 11.21

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

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

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

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 74.15

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 86.50

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 115.34

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

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 205.61

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 370.10

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

02 32 13 00-0023 EA Shelby Tube Sampling 55.95

02 32 13 00-0024 EA Penetration Test 45.59

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

02 32 13 00-0026 VLF Boreholes 10.61

02 32 19 Exploratory Excavations^(02 32)

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

Note: Assumes on-site disposal. See CSI section 01 22 23 00-1314 for additional water per day, 01 71 13 00-0000 for additional support equipment mobilization, 01 74 19 00-0033 for off-site disposal fee of material, 01 74 19 00-0043 for hauling excavated soil from site.

02 32 19 00-0002 EA Hydro Excavation, Minimum Charge 1,646.35

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

02 32 19 00-0003 EA 600 to 750 Gallon Water Capacity, 6 To 9 CY Soil Capacity, Hydro Excavation, Mobilization/Demobilization Per Day 940.77

Note: Includes initial water.

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 32 19 00-0004	EA		1,200 To 1,500 Gallon Water Capacity, 12 To 15 CY Soil Capacity, Hydro Excavation, Mobilization/Demobilization Per Day.....	1,175.97	
			Note: Includes initial water		
02 32 19 00-0005	EA		Move And Reset Up At Different Access/Location, Hydro Excavation.....	117.60	
02 32 19 00-0006	CY		Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck).....	98.08	
			Note: Normal soil conditions consist of silt, sand and gravel.		
02 32 19 00-0007	CY		Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....	156.88	
			Note: Adverse soil conditions consist of clay, glacial till and rocks.		

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

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

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving.....	7.79
		For >500 To 1,000, Deduct	-0.78
		For >1,000 To 2,500, Deduct	-1.40
		For >2,500 To 5,000, Deduct	-2.03
		For >5,000 To 10,000, Deduct	-2.65
		For >10,000, Deduct	-3.27
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving.....	11.68
		For >500 To 1,000, Deduct	-1.17
		For >1,000 To 2,500, Deduct	-2.10
		For >2,500 To 5,000, Deduct	-3.04
		For >5,000 To 10,000, Deduct	-3.97
		For >10,000, Deduct	-4.91
02 41 13 13-0004	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving.....	14.87
		For >500 To 1,000, Deduct	-1.49
		For >1,000 To 2,500, Deduct	-2.68
		For >2,500 To 5,000, Deduct	-3.87
		For >5,000 To 10,000, Deduct	-5.06
		For >10,000, Deduct	-6.25
02 41 13 13-0005	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving.....	21.00
		For >500 To 1,000, Deduct	-2.10
		For >1,000 To 2,500, Deduct	-3.78
		For >2,500 To 5,000, Deduct	-5.46
		For >5,000 To 10,000, Deduct	-7.14
		For >10,000, Deduct	-8.82
02 41 13 13-0006	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving.....	29.76
		For >500 To 1,000, Deduct	-2.98
		For >1,000 To 2,500, Deduct	-5.36
		For >2,500 To 5,000, Deduct	-7.74
		For >5,000 To 10,000, Deduct	-10.12
		For >10,000, Deduct	-12.50
02 41 13 13-0007	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving.....	42.00
		For >500 To 1,000, Deduct	-4.20
		For >1,000 To 2,500, Deduct	-7.56
		For >2,500 To 5,000, Deduct	-10.92
		For >5,000 To 10,000, Deduct	-14.28
		For >10,000, Deduct	-17.64
02 41 13 13-0008	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving.....	54.92
		For >500 To 1,000, Deduct	-5.49
		For >1,000 To 2,500, Deduct	-9.89
		For >2,500 To 5,000, Deduct	-14.28
		For >5,000 To 10,000, Deduct	-18.67
		For >10,000, Deduct	-23.07
02 41 13 13-0009	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving.....	71.41
		For >500 To 1,000, Deduct	-7.14
		For >1,000 To 2,500, Deduct	-12.85
		For >2,500 To 5,000, Deduct	-18.57
		For >5,000 To 10,000, Deduct	-24.28
		For >10,000, Deduct	-29.99

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

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

02 41 13 13-0011	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving.....	1.90
02 41 13 13-0012	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving.....	2.41
02 41 13 13-0013	SF	>6" To 9" By Hand, Break-up And Leave In Place Bituminous Paving.....	3.19
02 41 13 13-0014	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving.....	2.38



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

02

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0015	SF		>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	3.02	
02 41 13 13-0016	SF		>6" To 9" By Hand, Break-up And Leave In Place Concrete Paving	3.98	
02 41 13 13-0017			By Machine, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13) Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0018	SY		Up To 3" By Machine, Break-up And Remove Bituminous Paving	16.61	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.98	
			For Elevated Slab, Add	8.31	
			For >500 To 1,000, Deduct	-1.66	
			For >1,000 To 2,500, Deduct	-2.99	
			For >2,500 To 5,000, Deduct	-4.32	
			For >5,000 To 10,000, Deduct	-5.65	
			For >10,000, Deduct	-6.98	
02 41 13 13-0019	SY		>3" To 6" By Machine, Break-up And Remove Bituminous Paving	22.66	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.80	
			For Elevated Slab, Add	11.33	
			For >500 To 1,000, Deduct	-2.27	
			For >1,000 To 2,500, Deduct	-4.08	
			For >2,500 To 5,000, Deduct	-5.89	
			For >5,000 To 10,000, Deduct	-7.70	
			For >10,000, Deduct	-9.52	
02 41 13 13-0020	SY		>6" To 9" By Machine, Break-up And Remove Bituminous Paving	31.45	
			For Elevated Slab, Add	15.73	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000 To 2,500, Deduct	-5.66	
			For >2,500 To 5,000, Deduct	-8.18	
			For >5,000 To 10,000, Deduct	-10.69	
			For >10,000, Deduct	-13.21	
02 41 13 13-0021	SY		>9" To 12" By Machine, Break-up And Remove Bituminous Paving	41.04	
			For Elevated Slab, Add	20.52	
			For >500 To 1,000, Deduct	-4.10	
			For >1,000 To 2,500, Deduct	-7.39	
			For >2,500 To 5,000, Deduct	-10.67	
			For >5,000 To 10,000, Deduct	-13.95	
			For >10,000, Deduct	-17.24	
02 41 13 13-0022	SY		>12" To 15" By Machine, Break-up And Remove Bituminous Paving	57.13	
			For Elevated Slab, Add	28.57	
			For >500 To 1,000, Deduct	-5.71	
			For >1,000 To 2,500, Deduct	-10.28	
			For >2,500 To 5,000, Deduct	-14.85	
			For >5,000 To 10,000, Deduct	-19.42	
			For >10,000, Deduct	-23.99	
02 41 13 13-0023	SY		Up To 3" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	19.10	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.73	
			For Elevated Slab, Add	9.55	
			For >500 To 1,000, Deduct	-1.91	
			For >1,000 To 2,500, Deduct	-3.44	
			For >2,500 To 5,000, Deduct	-4.97	
			For >5,000 To 10,000, Deduct	-6.49	
			For >10,000, Deduct	-8.02	
02 41 13 13-0024	SY		>3" To 6" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	24.99	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.50	
			For Elevated Slab, Add	12.50	
			For >500 To 1,000, Deduct	-2.50	
			For >1,000 To 2,500, Deduct	-4.50	
			For >2,500 To 5,000, Deduct	-6.50	
			For >5,000 To 10,000, Deduct	-8.50	
			For >10,000, Deduct	-10.50	
02 41 13 13-0025	SY		>6" To 9" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	44.63	
			For Elevated Slab, Add	22.32	
			For >500 To 1,000, Deduct	-4.46	
			For >1,000 To 2,500, Deduct	-8.03	
			For >2,500 To 5,000, Deduct	-11.60	
			For >5,000 To 10,000, Deduct	-15.17	
			For >10,000, Deduct	-18.74	
02 41 13 13-0026	SY		>9" To 14" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	58.31	
			For Elevated Slab, Add	29.16	
			For >500 To 1,000, Deduct	-5.83	
			For >1,000 To 2,500, Deduct	-10.50	
			For >2,500 To 5,000, Deduct	-15.16	
			For >5,000 To 10,000, Deduct	-19.83	
			For >10,000, Deduct	-24.49	
02 41 13 13-0027	SY		Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving	25.35	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.61	
			For Elevated Slab, Add	12.68	
			For >500 To 1,000, Deduct	-2.54	
			For >1,000 To 2,500, Deduct	-4.56	
			For >2,500 To 5,000, Deduct	-6.59	
			For >5,000 To 10,000, Deduct	-8.62	
			For >10,000, Deduct	-10.65	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	32.84	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	9.85	
For Elevated Slab, Add	16.42	
For >500 To 1,000, Deduct	-3.28	
For >1,000 To 2,500, Deduct	-5.91	
For >2,500 To 5,000, Deduct	-8.54	
For >5,000 To 10,000, Deduct	-11.17	
For >10,000, Deduct	-13.79	
02 41 13 13-0029 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	54.45	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	16.34	
For Elevated Slab, Add	27.23	
For >500 To 1,000, Deduct	-5.45	
For >1,000 To 2,500, Deduct	-9.80	
For >2,500 To 5,000, Deduct	-14.16	
For >5,000 To 10,000, Deduct	-18.51	
For >10,000, Deduct	-22.87	
02 41 13 13-0030 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	27.49	
For Elevated Slab, Add	13.75	
For >500 To 1,000, Deduct	-2.75	
For >1,000 To 2,500, Deduct	-4.95	
For >2,500 To 5,000, Deduct	-7.15	
For >5,000 To 10,000, Deduct	-9.35	
For >10,000, Deduct	-11.55	
02 41 13 13-0031 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	35.34	
For Elevated Slab, Add	17.67	
For >500 To 1,000, Deduct	-3.53	
For >1,000 To 2,500, Deduct	-6.36	
For >2,500 To 5,000, Deduct	-9.19	
For >5,000 To 10,000, Deduct	-12.02	
For >10,000, Deduct	-14.84	
02 41 13 13-0032 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	63.20	
For Elevated Slab, Add	31.60	
For >500 To 1,000, Deduct	-6.32	
For >1,000 To 2,500, Deduct	-11.38	
For >2,500 To 5,000, Deduct	-16.43	
For >5,000 To 10,000, Deduct	-21.49	
For >10,000, Deduct	-26.54	
02 41 13 13-0033 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	82.47	
For Elevated Slab, Add	41.24	
For >500 To 1,000, Deduct	-8.25	
For >1,000 To 2,500, Deduct	-14.84	
For >2,500 To 5,000, Deduct	-21.44	
For >5,000 To 10,000, Deduct	-28.04	
For >10,000, Deduct	-34.64	
02 41 13 13-0034 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	107.82	
For Elevated Slab, Add	53.91	
For >500 To 1,000, Deduct	-10.78	
For >1,000 To 2,500, Deduct	-19.41	
For >2,500 To 5,000, Deduct	-28.03	
For >5,000 To 10,000, Deduct	-36.66	
For >10,000, Deduct	-45.28	
02 41 13 13-0035 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	130.85	
For Elevated Slab, Add	65.43	
For >500 To 1,000, Deduct	-13.09	
For >1,000 To 2,500, Deduct	-23.55	
For >2,500 To 5,000, Deduct	-34.02	
For >5,000 To 10,000, Deduct	-44.49	
For >10,000, Deduct	-54.96	
02 41 13 13-0036 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Removal depth to include base aggregate. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 13 13-0037 SF >6" To 9" By Hand, Break-up And Remove Bituminous Paving.....	7.25	
02 41 13 13-0038 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	5.30	
02 41 13 13-0039 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	7.32	
02 41 13 13-0040 SF >6" To 9" By Hand, Break-up And Remove Concrete Paving.....	9.38	
02 41 13 13-0041 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	7.43	
02 41 13 13-0042 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	10.24	
02 41 13 13-0043 SF >6" To 9" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	13.12	
02 41 13 13-0044 Grind Concrete (02 41 13 13)		



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

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0045	EA	Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard).....	267.78	
		Note: For each location up to 5' wide, feather up to 12" each direction.		
		For >1/2" To 1" Depth Of Grinding, Add	40.17	
		For >1" To 1-1/2" Depth Of Grinding, Add	66.95	
		For Up To 5, Add	53.56	
		For >5 To 10, Add	26.78	
		For >25 To 50, Deduct	-26.78	
		For >50 To 250, Deduct	-40.17	
		For >250, Deduct	-53.56	
		For Sidewalks >5', Add	26.78	
		For Up To 12" Additional Feathering Per Side, Add	26.78	
02 41 13 13-0046		Repair Uneven Sidewalks (02 41 13 13)		
		Note: (1 inch foot = 1 inch high X 1 linear foot long). Example for sample trip hazard: 1/2" high on one side, Zero on the other side, 4 linear foot long. Calculation for height would be: (1/2 + 0)/2 = 1/4 inch average. Calculation for length would be: 1/4 inch average X 4 feet = 1 inch foot.		
02 41 13 13-0047	IF	Up To 2,000 Inch Feet Repair Uneven Sidewalks	92.03	
02 41 13 13-0048	IF	2,000 To 3,000 Inch Feet Repair Uneven Sidewalks	87.31	
02 41 13 13-0049	IF	3,000 And Up Inch Feet Repair Uneven Sidewalks	82.59	
02 41 13 15		Hydro Demolition (02 41 13)		
02 41 13 15-0001		Hydro Demolition Of Concrete Pavement (02 41 13 15)		
		Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002	SF	Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	8.26	
02 41 13 15-0003	SF	>2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	10.31	
02 41 13 15-0004	SF	>4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	13.80	
02 41 13 15-0005	SF	>6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	27.48	
02 41 19		Selective Demolition (02 41)		
02 41 19 13		Selective Building Demolition (02 41 19)		
02 41 19 13-0001		Exterior Masonry Removal (02 41 19 13)		
02 41 19 13-0002		Masonry Columns Removal (Interior And Exterior) (02 41 19 13-0001)		
02 41 19 13-0003	VLF	8" x 8" Masonry Column Removal	15.52	
02 41 19 13-0004	VLF	10" x 10" Masonry Column Removal	24.25	
02 41 19 13-0005	VLF	12" x 12" Masonry Column Removal	31.06	
02 41 19 13-0006	VLF	14" x 14" Masonry Column Removal	38.88	
02 41 19 13-0007	VLF	16" x 16" Masonry Column Removal	47.77	
02 41 19 13-0008	CF	Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	26.82	
02 41 19 13-0009		Masonry Chimney Removal (02 41 19 13-0001)		
02 41 19 13-0010	CF	Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed	31.47	
02 41 19 13-0011	CF	>3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	23.63	
02 41 19 13-0012	CF	>10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	18.08	
02 41 19 13-0013	CF	>20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	12.52	
02 41 19 13-0014		Remove And Reset Precast, Stone Or Masonry Coping (02 41 19 13-0001)		
		Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0015	LF	Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	22.07	
02 41 19 13-0016	LF	>8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	32.84	
02 41 19 13-0017	LF	>12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	62.45	
02 41 19 13-0018		Facade Removal (02 41 19 13-0001)		
		Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0019	SF	Stone Or Brick Veneer Facade Removal	5.90	
		For Cleaning and Storage For Reuse, Add	8.85	
		For Reinforcing, Add	0.89	
02 41 19 13-0020		Exterior Masonry Removal (02 41 19 13-0001)		
		Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.		
02 41 19 13-0021	SF	Demolish 4" Thick Non-Reinforced Concrete Block Exterior Wall	5.19	
02 41 19 13-0022	SF	Demolish 6" Thick Non-Reinforced Concrete Block Exterior Wall	5.86	
02 41 19 13-0023	SF	Demolish 8" Thick Non-Reinforced Concrete Block Exterior Wall	7.09	
02 41 19 13-0024	SF	Demolish 10" Thick Non-Reinforced Concrete Block Exterior Wall	7.75	
02 41 19 13-0025	SF	Demolish 12" Thick Non-Reinforced Concrete Block Exterior Wall	8.51	
02 41 19 13-0026	SF	Demolish 16" Thick Non-Reinforced Concrete Block Exterior Wall	10.64	
02 41 19 13-0027	SF	Demolish 4" Thick Reinforced Concrete Block Exterior Wall	6.14	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0028	SF		Demolish 6" Thick Reinforced Concrete Block Exterior Wall	7.03	
02 41 19 13-0029	SF		Demolish 8" Thick Reinforced Concrete Block Exterior Wall	8.51	
02 41 19 13-0030	SF		Demolish 10" Thick Reinforced Concrete Block Exterior Wall	9.30	
02 41 19 13-0031	SF		Demolish 12" Thick Reinforced Concrete Block Exterior Wall	10.20	
02 41 19 13-0032	SF		Demolish 16" Thick Reinforced Concrete Block Exterior Wall	12.77	
02 41 19 13-0033	SF		Demolish 4" Thick Brick Exterior Wall	5.19	
			<i>For Cleaning and Storage For Reuse, Add</i>	7.79	
02 41 19 13-0034	SF		Demolish 6" Thick Brick Exterior Wall	5.86	
			<i>For Cleaning and Storage For Reuse, Add</i>	8.79	
02 41 19 13-0035	SF		Demolish 8" Thick Brick Exterior Wall	7.09	
			<i>For Cleaning and Storage For Reuse, Add</i>	10.64	
02 41 19 13-0036	SF		Demolish 10" Thick Brick Exterior Wall	7.75	
			<i>For Cleaning and Storage For Reuse, Add</i>	11.63	
02 41 19 13-0037	SF		Demolish 12" Thick Brick Exterior Wall	8.51	
			<i>For Cleaning and Storage For Reuse, Add</i>	12.77	
02 41 19 13-0038	SF		Demolish 16" Thick Brick Exterior Wall	10.64	
			<i>For Cleaning and Storage For Reuse, Add</i>	15.96	
02 41 19 13-0039	CF		Exterior Brick, Concrete Block Or Composite Removal	15.12	
			<i>For Cleaning and Storage For Reuse, Add</i>	22.68	
			<i>For Reinforcing, Add</i>	2.27	
02 41 19 13-0040 Lintel Removal (02 41 19 13-0001)					
Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.					
02 41 19 13-0041	LF		Demolish Steel Lintel	14.39	
02 41 19 13-0042	LF		Demolish Concrete Or Stone Lintel	19.19	
02 41 19 13-0043	LF		Demolish Steel Shelf Angle	15.19	
02 41 19 13-0044 Reinstall Lintel (02 41 19 13-0001)					
Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0057 for saw cutting.					
02 41 19 13-0045	LF		Clean, Prime And Paint Steel Shelf Angle Or Lintel	9.74	
02 41 19 13-0046	LF		Reinstall Existing Concrete Or Stone Lintel	19.19	
02 41 19 13-0047	LF		Reinstall Existing Steel Shelf Angle	51.87	
Note: Includes fasteners.					
02 41 19 13-0048	LF		Reinstall Existing Steel Lintel	21.32	
02 41 19 13-0049	LF		Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls	85.81	
02 41 19 13-0050	LF		Removal And Replacement Of Steel Lintel Over Window Openings	148.47	
02 41 19 13-0051 Exterior Concrete Wall Removal (02 41 19 13)					
02 41 19 13-0052	SF		Demolish 4" Thick Reinforced Concrete Exterior Wall	7.13	
02 41 19 13-0053	SF		Demolish 6" Thick Reinforced Concrete Exterior Wall	12.94	
02 41 19 13-0054	SF		Demolish 8" Thick Reinforced Concrete Exterior Wall	16.26	
02 41 19 13-0055	SF		Demolish 10" Thick Reinforced Concrete Exterior Wall	19.18	
02 41 19 13-0056	SF		Demolish 12" Thick Reinforced Concrete Exterior Wall	22.68	
02 41 19 13-0057 Saw Cutting (02 41 19 13)					
Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.					
02 41 19 13-0058	EA		Saw Cut Minimum Set-up Charge, One Per Project	1,166.32	
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.					
02 41 19 13-0059	LF		Bituminous Paving Up To 4" Depth, Saw Cut	2.60	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	1.00	
			<i>For >250, Deduct</i>	-0.25	
02 41 19 13-0060	LF		Brick Masonry Up To 4" Depth, Saw Cut	9.54	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	3.76	
			<i>For >250, Deduct</i>	-0.94	
02 41 19 13-0061	LF		Concrete Block Up To 4" Depth, Saw Cut	8.64	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	3.40	
			<i>For >250, Deduct</i>	-0.85	
02 41 19 13-0062	LF		Non-Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	3.00	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	1.14	
			<i>For >250, Deduct</i>	-0.28	
02 41 19 13-0063	LF		Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.94	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	1.50	
			<i>For >250, Deduct</i>	-0.37	
02 41 19 13-0064	LF		Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	6.44	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	2.50	
			<i>For >250, Deduct</i>	-0.62	
02 41 19 13-0065	LF		Plain Concrete Walls Up To 4" Depth, Saw Cut	12.18	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	4.81	
			<i>For >250, Deduct</i>	-1.20	
02 41 19 13-0066	LF		Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	16.36	
			<i>For Each Additional Pass (Depth To 3"), Add</i>	6.46	
			<i>For >250, Deduct</i>	-1.61	



Existing Conditions		02
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Demolition		02 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0067	LF		Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets..... <i>For Each Additional Pass (Depth To 3"), Add</i> <i>For >250, Deduct</i>	3.26 1.18 -0.28	
02 41 19 13-0068	LF		Igneous Stone Pavements Up To 4" Depth, Saw Cut..... <i>For Each Additional Pass (Depth To 3"), Add</i> <i>For >250, Deduct</i>	8.68 3.41 -0.85	
02 41 19 13-0069	LF		Sedimentary Stone Pavements Up To 4" Depth, Saw Cut <i>For Each Additional Pass (Depth To 3"), Add</i> <i>For >250, Deduct</i>	8.68 3.41 -0.85	
02 41 19 13-0070	LF		Metamorphic Stone Pavements Up To 4" Depth, Saw Cut..... <i>For Each Additional Pass (Depth To 3"), Add</i> <i>For >250, Deduct</i>	8.68 3.41 -0.85	
02 41 19 13-0071	LF		Terrazzo Stone Pavements Up To 4" Depth, Saw Cut <i>For Each Additional Pass (Depth To 3"), Add</i> <i>For >250, Deduct</i>	8.68 3.41 -0.85	
02 41 19 13-0072 Torch Cutting (02 41 19 13)					
Note: Includes grinding edge					
02 41 19 13-0073	LF		Up To 1/2", Torch Cut Steel Plate.....	3.19	
02 41 19 13-0074	LF		>1/2" To 1" Thick, Torch Cut Steel Plate	6.38	
02 41 19 13-0075	LF		>1" To 1-1/2" Thick, Torch Cut Steel Plate	9.57	
02 41 19 13-0076	LF		>1-1/2" To 2" Thick, Torch Cut Steel Plate	12.75	
02 41 19 13-0077	LF		>2" To 2-1/2" Thick, Torch Cut Steel Plate	15.96	
02 41 19 13-0078	LF		>2-1/2" To 3" Thick, Torch Cut Steel Plate	19.14	
02 41 19 13-0079	EA		Torch Cutting Minimum Charge	1,046.31	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.					
02 41 19 13-0080 Drilling In Existing Materials (02 41 19 13)					
Note: Includes drill bit wear, water, layout, set-up and clean-up.					
02 41 19 13-0081 Concrete Core Drilling (02 41 19 13-0080)					
02 41 19 13-0082 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0081)					
02 41 19 13-0083	EA		Drill 1" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	46.08 9.11 18.23	
02 41 19 13-0084	EA		Drill 1-1/2" Diameter Core In Up To 4" Concrete	51.13	
			<i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	10.12 20.25	
02 41 19 13-0085	EA		Drill 2" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	56.77 11.25 22.50	
02 41 19 13-0086	EA		Drill 3" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.06 16.07 32.15	
02 41 19 13-0087	EA		Drill 4" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	108.62 21.54 43.08	
02 41 19 13-0088	EA		Drill 6" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	121.72 24.11 48.22	
02 41 19 13-0089	EA		Drill 8" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	194.49 38.58 77.16	
02 41 19 13-0090	EA		Drill 10" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	243.30 48.22 96.44	
02 41 19 13-0091	EA		Drill 12" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	283.92 56.26 112.52	
02 41 19 13-0092	EA		Drill 14" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	324.57 64.29 128.58	
02 41 19 13-0093	EA		Drill 18" Diameter Core In Up To 4" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	365.62 72.32 144.64	
02 41 19 13-0094 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0081)					
02 41 19 13-0095	EA		Drill 1" Diameter Core In >4" To 6" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	65.88 13.02 26.04	
02 41 19 13-0096	EA		Drill 1-1/2" Diameter Core In >4" To 6" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.11 14.46 28.93	
02 41 19 13-0097	EA		Drill 2" Diameter Core In >4" To 6" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.15 16.07 32.14	
02 41 19 13-0098	EA		Drill 3" Diameter Core In >4" To 6" Concrete..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	97.53 19.29 38.58	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0099 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	121.98	
For Horizontal Cores, Add	24.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	48.22	
02 41 19 13-0100 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	162.52	
For Horizontal Cores, Add	32.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	64.30	
02 41 19 13-0101 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	243.54	
For Horizontal Cores, Add	48.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	96.44	
02 41 19 13-0102 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	284.57	
For Horizontal Cores, Add	56.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	112.52	
02 41 19 13-0103 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	325.37	
For Horizontal Cores, Add	64.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.58	
02 41 19 13-0104 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	366.37	
For Horizontal Cores, Add	72.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	144.64	
02 41 19 13-0105 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	407.99	
For Horizontal Cores, Add	80.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	160.73	
02 41 19 13-0106 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0107 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	72.67	
For Horizontal Cores, Add	14.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.64	
02 41 19 13-0108 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	80.64	
For Horizontal Cores, Add	15.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.83	
02 41 19 13-0109 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	89.48	
For Horizontal Cores, Add	17.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.36	
02 41 19 13-0110 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	105.95	
For Horizontal Cores, Add	20.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.79	
02 41 19 13-0111 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	138.54	
For Horizontal Cores, Add	27.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.65	
02 41 19 13-0112 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	195.27	
For Horizontal Cores, Add	38.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	77.16	
02 41 19 13-0113 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	324.70	
For Horizontal Cores, Add	64.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.58	
02 41 19 13-0114 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	365.96	
For Horizontal Cores, Add	72.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	144.64	
02 41 19 13-0115 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	407.04	
For Horizontal Cores, Add	80.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	160.73	
02 41 19 13-0116 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	448.34	
For Horizontal Cores, Add	88.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	176.77	
02 41 19 13-0117 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	490.55	
For Horizontal Cores, Add	96.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	192.88	
02 41 19 13-0118 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0119 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	85.97	
For Horizontal Cores, Add	16.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.85	
02 41 19 13-0120 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	95.38	
For Horizontal Cores, Add	18.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.61	
02 41 19 13-0121 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	105.82	
For Horizontal Cores, Add	20.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.79	
02 41 19 13-0122 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	122.41	
For Horizontal Cores, Add	24.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	48.22	
02 41 19 13-0123 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	139.04	
For Horizontal Cores, Add	27.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	54.65	
02 41 19 13-0124 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	195.88	
For Horizontal Cores, Add	38.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	77.16	
02 41 19 13-0125 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	325.52	
For Horizontal Cores, Add	64.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.58	
02 41 19 13-0126 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	367.05	
For Horizontal Cores, Add	72.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	144.64	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0127 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	408.27	
For Horizontal Cores, Add	80.35	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	160.70	
02 41 19 13-0128 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	449.99	
For Horizontal Cores, Add	88.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	176.77	
02 41 19 13-0129 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	492.59	
For Horizontal Cores, Add	96.42	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	192.84	
02 41 19 13-0130 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0131 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	92.77	
For Horizontal Cores, Add	18.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.46	
02 41 19 13-0132 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	102.90	
For Horizontal Cores, Add	20.25	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	40.51	
02 41 19 13-0133 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	114.14	
For Horizontal Cores, Add	22.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	45.00	
02 41 19 13-0134 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	122.80	
For Horizontal Cores, Add	24.11	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	48.22	
02 41 19 13-0135 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	163.66	
For Horizontal Cores, Add	32.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	64.30	
02 41 19 13-0136 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	212.56	
For Horizontal Cores, Add	41.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.59	
02 41 19 13-0137 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	342.43	
For Horizontal Cores, Add	67.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	135.02	
02 41 19 13-0138 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	368.13	
For Horizontal Cores, Add	72.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	144.64	
02 41 19 13-0139 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	425.76	
For Horizontal Cores, Add	83.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	167.18	
02 41 19 13-0140 >12" Thick Concrete Core Drilling (02 41 19 13-0081)		
02 41 19 13-0141 IN Drill 1" Diameter Core In >12" Concrete.....	11.28	
For Horizontal Cores, Add	2.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.46	
02 41 19 13-0142 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	12.52	
For Horizontal Cores, Add	2.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.95	
02 41 19 13-0143 IN Drill 2" Diameter Core In >12" Concrete.....	13.89	
For Horizontal Cores, Add	2.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.50	
02 41 19 13-0144 IN Drill 3" Diameter Core In >12" Concrete.....	15.25	
For Horizontal Cores, Add	3.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.02	
02 41 19 13-0145 IN Drill 4" Diameter Core In >12" Concrete.....	20.33	
For Horizontal Cores, Add	4.02	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	8.04	
02 41 19 13-0146 IN Drill 6" Diameter Core In >12" Concrete.....	26.44	
For Horizontal Cores, Add	5.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.46	
02 41 19 13-0147 IN Drill 8" Diameter Core In >12" Concrete.....	42.64	
For Horizontal Cores, Add	8.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.89	
02 41 19 13-0148 IN Drill 10" Diameter Core In >12" Concrete.....	45.93	
For Horizontal Cores, Add	9.08	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.16	
02 41 19 13-0149 IN Drill 12" Diameter Core In >12" Concrete.....	52.92	
For Horizontal Cores, Add	10.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.91	
02 41 19 13-0150 Brick/Concrete Block Core Drilling (02 41 19 13-0080)		
02 41 19 13-0151 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0152 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block.....	36.97	
For Horizontal Cores, Add	7.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.58	
02 41 19 13-0153 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block.....	41.01	
For Horizontal Cores, Add	8.10	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.20	
02 41 19 13-0154 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block.....	45.51	
For Horizontal Cores, Add	9.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.00	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0155 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block.....	64.98	
For Horizontal Cores, Add	12.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.72	
02 41 19 13-0156 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block.....	87.09	
For Horizontal Cores, Add	17.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.46	
02 41 19 13-0157 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block.....	97.62	
For Horizontal Cores, Add	19.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.58	
02 41 19 13-0158 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block.....	155.91	
For Horizontal Cores, Add	30.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	61.72	
02 41 19 13-0159 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block.....	195.07	
For Horizontal Cores, Add	38.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	77.15	
02 41 19 13-0160 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block.....	227.66	
For Horizontal Cores, Add	45.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	90.02	
02 41 19 13-0161 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block.....	260.28	
For Horizontal Cores, Add	51.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.86	
02 41 19 13-0162 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block.....	293.30	
For Horizontal Cores, Add	57.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	115.72	
02 41 19 13-0163 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0164 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block.....	52.86	
For Horizontal Cores, Add	10.41	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.83	
02 41 19 13-0165 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block.....	58.64	
For Horizontal Cores, Add	11.57	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.14	
02 41 19 13-0166 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block.....	65.07	
For Horizontal Cores, Add	12.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.71	
02 41 19 13-0167 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block.....	78.23	
For Horizontal Cores, Add	15.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.86	
02 41 19 13-0168 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block.....	97.88	
For Horizontal Cores, Add	19.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	38.58	
02 41 19 13-0169 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block.....	130.37	
For Horizontal Cores, Add	25.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	51.44	
02 41 19 13-0170 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block.....	195.31	
For Horizontal Cores, Add	38.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	77.15	
02 41 19 13-0171 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block.....	228.31	
For Horizontal Cores, Add	45.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	90.02	
02 41 19 13-0172 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block.....	261.08	
For Horizontal Cores, Add	51.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.86	
02 41 19 13-0173 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block.....	294.05	
For Horizontal Cores, Add	57.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	115.72	
02 41 19 13-0174 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block.....	327.63	
For Horizontal Cores, Add	64.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.58	
02 41 19 13-0175 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0176 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block.....	58.36	
For Horizontal Cores, Add	11.46	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.92	
02 41 19 13-0177 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block.....	64.72	
For Horizontal Cores, Add	12.73	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.46	
02 41 19 13-0178 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block.....	71.79	
For Horizontal Cores, Add	14.14	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.29	
02 41 19 13-0179 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block.....	85.06	
For Horizontal Cores, Add	16.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.44	
02 41 19 13-0180 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block.....	111.21	
For Horizontal Cores, Add	21.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.72	
02 41 19 13-0181 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block.....	156.69	
For Horizontal Cores, Add	30.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	61.72	
02 41 19 13-0182 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block.....	260.41	
For Horizontal Cores, Add	51.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	102.86	



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

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0183 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	293.64 57.86 115.72	
02 41 19 13-0184 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	326.68 64.29 128.58	
02 41 19 13-0185 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	359.96 70.71 141.42	
02 41 19 13-0186 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	394.10 77.15 154.30	
02 41 19 13-0187 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0188 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.05 13.54 27.08	
02 41 19 13-0189 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	76.57 15.04 30.09	
02 41 19 13-0190 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	84.93 16.72 33.43	
02 41 19 13-0191 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.31 19.29 38.58	
02 41 19 13-0192 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.71 21.86 43.72	
02 41 19 13-0193 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	157.30 30.86 61.72	
02 41 19 13-0194 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	261.23 51.43 102.86	
02 41 19 13-0195 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	294.73 57.86 115.72	
02 41 19 13-0196 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	327.92 64.28 128.56	
02 41 19 13-0197 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	361.61 70.71 141.42	
02 41 19 13-0198 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	396.18 77.14 154.27	
02 41 19 13-0199 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0200 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	74.54 14.58 29.16	
02 41 19 13-0201 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	82.64 16.20 32.40	
02 41 19 13-0202 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.65 18.00 36.01	
02 41 19 13-0203 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.70 19.29 38.58	
02 41 19 13-0204 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.51 25.72 51.44	
02 41 19 13-0205 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	170.77 33.44 66.87	
02 41 19 13-0206 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	274.92 54.01 108.01	
02 41 19 13-0207 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	295.81 57.86 115.72	
02 41 19 13-0208 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	342.18 66.87 133.74	
02 41 19 13-0209 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0150)		
02 41 19 13-0210 IN Drill 1" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	9.05 1.78 3.56	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0211 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	10.04 1.98 3.96	
02 41 19 13-0212 IN Drill 2" Diameter Core In >12" Brick/Concrete Block..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.15 2.20 4.40	
02 41 19 13-0213 IN Drill 3" Diameter Core In >12" Brick/Concrete Block..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.24 2.41 4.82	
02 41 19 13-0214 IN Drill 4" Diameter Core In >12" Brick/Concrete Block..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.31 3.21 6.43	
02 41 19 13-0215 IN Drill 6" Diameter Core In >12" Brick/Concrete Block..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.21 4.18 8.36	
02 41 19 13-0216 IN Drill 8" Diameter Core In >12" Brick/Concrete Block..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.19 6.76 13.51	
02 41 19 13-0217 IN Drill 10" Diameter Core In >12" Brick/Concrete Block..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.85 7.26 14.52	
02 41 19 13-0218 IN Drill 12" Diameter Core In >12" Brick/Concrete Block..... For Horizontal Cores, Add For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.47 8.36 16.73	
02 41 19 13-0219 Asphalt Core Drilling (02 41 19 13-0080)		
02 41 19 13-0220 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0221 EA Drill 1" Diameter Core In Up To 2" Asphalt.....	22.11	
02 41 19 13-0222 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt.....	27.64	
02 41 19 13-0223 EA Drill 2" Diameter Core In Up To 2" Asphalt.....	34.55	
02 41 19 13-0224 EA Drill 3" Diameter Core In Up To 2" Asphalt.....	42.86	
02 41 19 13-0225 EA Drill 4" Diameter Core In Up To 2" Asphalt.....	53.93	
02 41 19 13-0226 EA Drill 6" Diameter Core In Up To 2" Asphalt.....	67.76	
02 41 19 13-0227 EA Drill 8" Diameter Core In Up To 2" Asphalt.....	84.40	
02 41 19 13-0228 EA Drill 10" Diameter Core In Up To 2" Asphalt.....	105.11	
02 41 19 13-0229 EA Drill 12" Diameter Core In Up To 2" Asphalt.....	131.35	
02 41 19 13-0230 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0231 EA Drill 1" Diameter Core In >2" To 3" Asphalt.....	27.63	
02 41 19 13-0232 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt.....	35.92	
02 41 19 13-0233 EA Drill 2" Diameter Core In >2" To 3" Asphalt.....	44.20	
02 41 19 13-0234 EA Drill 3" Diameter Core In >2" To 3" Asphalt.....	55.28	
02 41 19 13-0235 EA Drill 4" Diameter Core In >2" To 3" Asphalt.....	69.10	
02 41 19 13-0236 EA Drill 6" Diameter Core In >2" To 3" Asphalt.....	87.07	
02 41 19 13-0237 EA Drill 8" Diameter Core In >2" To 3" Asphalt.....	107.86	
02 41 19 13-0238 EA Drill 10" Diameter Core In >2" To 3" Asphalt.....	135.45	
02 41 19 13-0239 EA Drill 12" Diameter Core In >2" To 3" Asphalt.....	168.60	
02 41 19 13-0240 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0241 EA Drill 1" Diameter Core In >3" To 4" Asphalt.....	35.93	
02 41 19 13-0242 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt.....	45.61	
02 41 19 13-0243 EA Drill 2" Diameter Core In >3" To 4" Asphalt.....	56.66	
02 41 19 13-0244 EA Drill 3" Diameter Core In >3" To 4" Asphalt.....	70.50	
02 41 19 13-0245 EA Drill 4" Diameter Core In >3" To 4" Asphalt.....	88.50	
02 41 19 13-0246 EA Drill 6" Diameter Core In >3" To 4" Asphalt.....	110.62	
02 41 19 13-0247 EA Drill 8" Diameter Core In >3" To 4" Asphalt.....	138.36	
02 41 19 13-0248 EA Drill 10" Diameter Core In >3" To 4" Asphalt.....	172.88	
02 41 19 13-0249 EA Drill 12" Diameter Core In >3" To 4" Asphalt.....	215.70	
02 41 19 13-0250 >4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0219)		
02 41 19 13-0251 EA Drill 1" Diameter Core In >4" To 6" Asphalt.....	47.02	
02 41 19 13-0252 EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt.....	58.10	
02 41 19 13-0253 EA Drill 2" Diameter Core In >4" To 6" Asphalt.....	71.92	
02 41 19 13-0254 EA Drill 3" Diameter Core In >4" To 6" Asphalt.....	91.33	
02 41 19 13-0255 EA Drill 4" Diameter Core In >4" To 6" Asphalt.....	113.50	
02 41 19 13-0256 EA Drill 6" Diameter Core In >4" To 6" Asphalt.....	141.20	
02 41 19 13-0257 EA Drill 8" Diameter Core In >4" To 6" Asphalt.....	177.29	
02 41 19 13-0258 EA Drill 10" Diameter Core In >4" To 6" Asphalt.....	221.49	
02 41 19 13-0259 EA Drill 12" Diameter Core In >4" To 6" Asphalt.....	276.80	
02 41 19 13-0260 Manhole Core Drilling (02 41 19 13-0080)		
02 41 19 13-0261 EA Drill 4" Diameter Core In 6" Brick Manhole.....	242.07	
02 41 19 13-0262 EA Drill 5" Diameter Core In 6" Brick Manhole.....	276.63	
02 41 19 13-0263 EA Drill 6" Diameter Core In 6" Brick Manhole.....	322.64	
02 41 19 13-0264 EA Drill 8" Diameter Core In 6" Brick Manhole.....	483.83	
02 41 19 13-0265 EA Drill 2" Diameter Core In 8" Concrete Manhole.....	324.34	



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

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0266	EA	Drill 3" Diameter Core In 8" Concrete Manhole.....	345.37	
02 41 19 13-0267	EA	Drill 4" Diameter Core In 8" Concrete Manhole.....	380.20	
02 41 19 13-0268	EA	Drill 5" Diameter Core In 8" Concrete Manhole.....	407.94	
02 41 19 13-0269	EA	Drill 6" Diameter Core In 8" Concrete Manhole.....	483.83	
02 41 19 13-0270	EA	Drill 8" Diameter Core In 8" Concrete Manhole.....	691.04	
02 41 19 13-0271	EA	Drill 2" Diameter Core In Fiberglass Manhole.....	32.18	
02 41 19 13-0272	EA	Drill 3" Diameter Core In Fiberglass Manhole.....	37.14	
02 41 19 13-0273	EA	Drill 4" Diameter Core In Fiberglass Manhole.....	40.23	
02 41 19 13-0274	EA	Drill 5" Diameter Core In Fiberglass Manhole.....	43.90	
02 41 19 13-0275	EA	Drill 6" Diameter Core In Fiberglass Manhole.....	48.28	
02 41 19 13-0276	EA	Drill 8" Diameter Core In Fiberglass Manhole.....	53.66	
02 41 19 13-0277 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0080)				
Note: Includes layout.				
02 41 19 13-0278	IN	1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.23	
02 41 19 13-0279	IN	5/16" Diameter Drilling In Concrete Per Inch Of Depth.....	2.36	
02 41 19 13-0280	IN	3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.49	
02 41 19 13-0281	IN	1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.68	
02 41 19 13-0282	IN	5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.84	
02 41 19 13-0283	IN	3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.13	
02 41 19 13-0284	IN	7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.39	
02 41 19 13-0285	IN	1" Diameter Drilling In Concrete Per Inch Of Depth.....	3.55	
02 41 19 13-0286	IN	1-1/8" Diameter Drilling In Concrete Per Inch Of Depth.....	4.19	
02 41 19 13-0287	IN	1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.93	
02 41 19 13-0288	IN	1-3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	4.19	
02 41 19 13-0289	IN	1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	4.45	
02 41 19 13-0290	IN	1-3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	4.94	
02 41 19 13-0291	IN	2" Diameter Drilling In Concrete Per Inch Of Depth.....	5.75	
02 41 19 13-0292 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0080)				
Note: Includes layout.				
02 41 19 13-0293	IN	1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.86	
02 41 19 13-0294	IN	5/16" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.97	
02 41 19 13-0295	IN	3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.08	
02 41 19 13-0296	IN	1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.23	
02 41 19 13-0297	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.37	
02 41 19 13-0298	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.61	
02 41 19 13-0299	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.82	
02 41 19 13-0300	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	2.97	
02 41 19 13-0301	IN	1-1/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.13	
02 41 19 13-0302	IN	1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.27	
02 41 19 13-0303	IN	1-3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.50	
02 41 19 13-0304	IN	1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	3.72	
02 41 19 13-0305	IN	1-3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	4.14	
02 41 19 13-0306	IN	2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	4.79	
02 41 19 13-0307 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0080)				
Note: Includes layout.				
02 41 19 13-0308	IN	1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.92	
02 41 19 13-0309	IN	5/16" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.99	
02 41 19 13-0310	IN	3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.04	
02 41 19 13-0311	IN	1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.11	
02 41 19 13-0312	IN	5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.18	
02 41 19 13-0313	IN	3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.30	
02 41 19 13-0314	IN	7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.41	
02 41 19 13-0315	IN	1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.48	
02 41 19 13-0316	IN	1-1/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.55	
02 41 19 13-0317	IN	1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.63	
02 41 19 13-0318	IN	1-3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.73	
02 41 19 13-0319	IN	1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.85	
02 41 19 13-0320	IN	1-3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	2.06	
02 41 19 13-0321	IN	2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	2.39	
02 41 19 13-0322 Limestone Core Drilling (02 41 19 13-0080)				
02 41 19 13-0323 10" To 14" Thick Limestone Core Drilling (02 41 19 13-0322)				
02 41 19 13-0324	EA	Drill 1" Diameter Core In 10" To 14" Limestone.....	69.45	
02 41 19 13-0325	EA	Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....	83.42	
02 41 19 13-0326	EA	Drill 2" Diameter Core In 10" To 14" Limestone.....	90.48	
02 41 19 13-0327	EA	Drill 3" Diameter Core In 10" To 14" Limestone.....	104.66	
02 41 19 13-0328	EA	Drill 4" Diameter Core In 10" To 14" Limestone.....	118.85	
02 41 19 13-0329	EA	Drill 6" Diameter Core In 10" To 14" Limestone.....	167.46	
02 41 19 13-0330	EA	Drill 8" Diameter Core In 10" To 14" Limestone.....	278.38	
02 41 19 13-0331 15" To 18" Thick Limestone Core Drilling (02 41 19 13-0322)				
02 41 19 13-0332	EA	Drill 1" Diameter Core In 15" To 18" Limestone.....	76.47	

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

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0333	EA	Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....	90.46		
02 41 19 13-0334	EA	Drill 2" Diameter Core In 15" To 18" Limestone.....	97.59		
02 41 19 13-0335	EA	Drill 3" Diameter Core In 15" To 18" Limestone.....	104.97		
02 41 19 13-0336	EA	Drill 4" Diameter Core In 15" To 18" Limestone.....	139.90		
02 41 19 13-0337	EA	Drill 6" Diameter Core In 15" To 18" Limestone.....	181.68		
02 41 19 13-0338	EA	Drill 8" Diameter Core In 15" To 18" Limestone.....	292.91		
02 41 19 13-0339 19" To 24" Thick Limestone Core Drilling (02 41 19 13-0322)					
02 41 19 13-0340	EA	Drill 1" Diameter Core In 19" To 24" Limestone.....	83.47		
02 41 19 13-0341	EA	Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....	97.51		
02 41 19 13-0342	EA	Drill 2" Diameter Core In 19" To 24" Limestone.....	104.67		
02 41 19 13-0343	EA	Drill 3" Diameter Core In 19" To 24" Limestone.....	118.98		
02 41 19 13-0344	EA	Drill 4" Diameter Core In 19" To 24" Limestone.....	167.76		
02 41 19 13-0345	EA	Drill 6" Diameter Core In 19" To 24" Limestone.....	209.64		
02 41 19 13-0346	EA	Drill 8" Diameter Core In 19" To 24" Limestone.....	314.31		
02 41 19 13-0347 Minimum Charge For Core Drilling (02 41 19 13-0080)					
02 41 19 13-0348	EA	Core Drill Minimum Charge.....	938.92		
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth".					
02 41 19 13-0349 Cutouts (02 41 19 13)					
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.					
02 41 19 13-0350 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0349)					
02 41 19 13-0351	SF	4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	52.43		
02 41 19 13-0352	SF	6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	55.61		
02 41 19 13-0353	SF	8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	58.79		
02 41 19 13-0354	SF	10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	61.96		
02 41 19 13-0355	SF	12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF.....	63.55		
02 41 19 13-0356 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0349)					
Note: Includes cutting and removing steel decking.					
02 41 19 13-0357	SF	4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	63.90		
02 41 19 13-0358	SF	6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	67.77		
02 41 19 13-0359	SF	8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	71.65		
02 41 19 13-0360	SF	10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	75.52		
02 41 19 13-0361	SF	12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF.....	77.45		
02 41 19 13-0362 Reinforced Concrete Wall Cutouts (02 41 19 13-0349)					
02 41 19 13-0363	SF	4" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	65.54		
02 41 19 13-0364	SF	6" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	69.51		
02 41 19 13-0365	SF	8" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	73.48		
02 41 19 13-0366	SF	10" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	77.45		
02 41 19 13-0367	SF	12" Thick Reinforced Concrete Wall Cutouts, <24 SF.....	79.44		
02 41 19 13-0368 Brick Wall Cutouts (02 41 19 13-0349)					
Note: Excludes toothing.					
02 41 19 13-0369	SF	4" Thick Brick Wall Cutouts, <24 SF.....	19.86		
02 41 19 13-0370	SF	6" Thick Brick Wall Cutouts, <24 SF.....	32.77		
02 41 19 13-0371	SF	8" Thick Brick Wall Cutouts, <24 SF.....	45.63		
02 41 19 13-0372	SF	10" Thick Brick Wall Cutouts, <24 SF.....	55.61		
02 41 19 13-0373	SF	12" Thick Brick Wall Cutouts, <24 SF.....	66.53		
02 41 19 13-0374	SF	16" Thick Brick Wall Cutouts, <24 SF.....	78.45		
02 41 19 13-0375 Concrete Block Wall Cutouts (02 41 19 13-0349)					
Note: Excludes toothing.					
02 41 19 13-0376	SF	4" Thick Concrete Block Wall Cutouts, <24 SF.....	32.85		
02 41 19 13-0377	SF	6" Thick Concrete Block Wall Cutouts, <24 SF.....	34.79		
02 41 19 13-0378	SF	8" Thick Concrete Block Wall Cutouts, <24 SF.....	36.74		
02 41 19 13-0379	SF	10" Thick Concrete Block Wall Cutouts, <24 SF.....	38.73		
02 41 19 13-0380	SF	12" Thick Concrete Block Wall Cutouts, <24 SF.....	39.72		
02 41 19 13-0381	SF	16" Thick Concrete Block Wall Cutouts, <24 SF.....	41.71		
02 41 19 13-0382 Limestone Cutouts (02 41 19 13-0349)					
02 41 19 13-0383	SF	2" Thick Limestone Cutouts, <24 SF.....	55.61		
02 41 19 13-0384	SF	4" Thick Limestone Cutouts, <24 SF.....	67.53		
02 41 19 13-0385	SF	6" Thick Limestone Cutouts, <24 SF.....	71.50		
02 41 19 13-0386	SF	8" Thick Limestone Cutouts, <24 SF.....	75.46		
02 41 19 13-0387	SF	10" Thick Limestone Cutouts, <24 SF.....	79.44		
02 41 19 13-0388	SF	12" Thick Limestone Cutouts, <24 SF.....	83.41		



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

02

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0389	Toothing Masonry Cutouts (02 41 19 13-0349) Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0390	VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	19.86	
02 41 19 13-0391	VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	26.81	
02 41 19 13-0392	VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	11.92	
02 41 19 13-0393	VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts	15.89	
02 41 19 13-0394	Minimum Charge For Cutouts (02 41 19 13-0349) Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0395	EA Cutouts Minimum Charge	397.20	
02 43 Structure Moving (02 40)			
02 43 13	Structure Relocation (02 43) Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.		
02 43 13 13	Building Relocation (02 43 13)		
02 43 13 13-0001	Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete (02 43 13 13) Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.		
02 43 13 13-0002	SF Up To 800 SF, Move Relocatable Metal Frame Building.....	38.13	
02 43 13 13-0003	SF >800 To 920 SF, Move Relocatable Metal Frame Building.....	36.04	
02 43 13 13-0004	SF >920 SF, Move Relocatable Metal Frame Building.....	33.73	
02 43 13 13-0005	SF Up To 800 SF, Move Relocatable Wood Frame Building	30.59	
02 43 13 13-0006	SF >800 To 920 SF, Move Relocatable Wood Frame Building.....	28.60	
02 43 13 13-0007	SF >920 SF, Move Relocatable Wood Frame Building	25.30	
02 43 13 13-0008	SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	37.06	
02 43 13 13-0009	SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building	33.73	
02 43 13 13-0010	SF >920 SF, Move Relocatable Wood/Metal Frame Building	28.60	
02 60 Contaminated Site Material Removal (02)			
02 61 Removal and Disposal of Contaminated Soils (02 60)			
02 61 13	Excavation and Handling of Contaminated Material (02 61) See CSI section 31 23 16 00-0000 for excavation.		
02 61 13 00-0001	Excavation Of Non-Petroleum Contaminated Soil (02 61 13) See CSI section 02 65 00 00-0001 for testing, 02 65 00 00-0006 for testing, 31 23 16 00-0000 for excavation of non-contaminated soil, 31 23 16 33-0019 for loading non-petroleum contaminated material onto trucks for removal.		
02 61 13 00-0002	Excavate Non-Petroleum Contaminated Soil (02 61 13 00-0001)		
02 61 13 00-0003	CY Excavate Non-Petroleum Contaminated Soil..... Note: Includes excavation, making a determination if the soil is reusable or contaminated, and stockpiling as per determination.	9.72	
02 61 13 00-0004	CY Load Excavated Non-Petroleum Contaminated Soil.....	8.44	
02 61 13 00-0005	CY Disposal Fees Of Non-Petroleum Contaminated Soil	46.68	
02 61 13 00-0006	Excavate Petroleum Contaminated Soil (02 61 13)		
02 61 13 00-0007	CY Excavate Petroleum Contaminated Soil	14.59	
02 61 13 00-0008	CY Load Excavated Petroleum Contaminated Soil.....	8.44	
02 61 13 00-0009	CY Disposal Fees Of Petroleum Contaminated Soil.....	74.79	
02 61 13 00-0010	Accessories For Contaminated Soil Stockpile (02 61 13) See CSI section 31 25 14 23-0001 for sand bags.		
02 61 13 00-0011	SF 30 Mil Liner For Contaminated Soil Storage	1.57	
02 61 13 00-0012	SF 10 Mil Liner For Contaminated Soil Storage..... Note: 9.93 SF of liner per 1 ton of petroleum contaminated soil.	0.93	
02 61 26	Removal and Disposal of Asbestos Contaminated Soils (02 61) Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less		

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

02 61 26 00-0001	Removal and Disposal of Asbestos Contaminated Soils (02 61 26)	
	Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.	
02 61 26 00-0002	EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	1,244.86
	For Work In Restricted Working Space, Add	373.46
02 61 26 00-0003	CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	82.52
	For Work In Restricted Working Space, Add	24.76
02 61 26 00-0004	CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	55.01
	For Work In Restricted Working Space, Add	16.50
02 61 26 00-0005	CF >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	41.32
	For Work In Restricted Working Space, Add	12.40
02 61 26 00-0006	CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	33.00
	For Work In Restricted Working Space, Add	9.90
02 61 26 00-0007	CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	28.05
	For Work In Restricted Working Space, Add	8.42
02 61 26 00-0008	CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	25.25
	For Work In Restricted Working Space, Add	7.58

02 65 Underground Storage Tank Removal (02 60)

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

02 65 00 00-0001	Monitoring, Sampling, Testing And Analysis (02 65)	
02 65 00 00-0002	Field Samples For Testing Underground Storage Tank (02 65 00 00-0001)	
02 65 00 00-0003	EA Collection Of Sludge Sample For Underground Storage Tank	26.95
02 65 00 00-0004	EA Collection Of Pumpable Liquids Sample For Underground Storage Tank	26.95
02 65 00 00-0005	EA Collection Of Contaminated Soil Sample	26.95
02 65 00 00-0006	Lab Tests For Underground Storage Tank Removal (02 65 00 00-0001)	
	Note: Includes lab test fees, reports, shipping, handling, chain of custody documents and disposal of sample.	
02 65 00 00-0007	EA Benzene, Toluene, Ethylbenzene, Xylene 8020, Lab Test	208.77
	Note: The cost is for the in-lab test for Benzene, Toluene, Ethylbenzene, And Xylene using procedure 8020 as detailed in EPA SW-846.	
02 65 00 00-0008	EA Flashpoint, Lab Test	81.19
	Note: The cost is for the in-lab test for the flashpoint using procedure 40CFR 261.21 as detailed in EPA SW-846.	
02 65 00 00-0009	EA TOX 9020, Lab Test	195.30
	Note: The cost is for the in-lab test for total organic halides using procedure 9020 as detailed in EPA SW-846.	
02 65 00 00-0010	EA TPH 8015 Modified, Lab Test	208.77
	Note: The cost is for the in-lab test for total petroleum hydrocarbons by gas chromatography using procedure 8015 Mod. as detailed in EPA SW-846.	
02 65 00 00-0011	EA TRPH 418.1, Lab Test	162.38
	Note: The cost is for the in-lab test for total recoverable petroleum hydrocarbons using procedure 418.1 as detailed in EPA SW-846.	
02 65 00 00-0012	EA VOC, Lab Test	440.74
	Note: The cost is for the in-lab test for volatile organics using procedure 8240 as detailed in EPA SW-846.	
02 65 00 00-0013	EA Semi-Volatile Organic, Lab Test	811.90
	Note: The cost is for the in-lab test for semi-volatile organics using procedure 8270 as detailed in EPA SW-846.	
02 65 00 00-0014	EA Oil And Grease 413.1, Lab Test	97.65
	Note: The cost is for the in-lab test for oil and grease using procedure 413.1 as detailed in EPA SW-846.	
02 65 00 00-0015	EA TCLP (Extraction) - Metals, Lab Test	173.98
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	
02 65 00 00-0016	EA TCLP (Extraction) - Semi-Volatile Organic, Lab Test	231.97
	Note: The cost is for the in-lab test for toxicity characteristics leaching procedures using procedure 1311 as detailed in EPA SW-846.	
02 65 00 00-0017	EA Metals 6010 RCRA, Lab Test	259.81
	Note: The cost is for the in-lab test for metals using procedure 6010 RCRA as detailed in EPA SW-846.	
02 65 00 00-0018	EA Metals (Arsenic) 7060, Lab Test	34.80
	Note: The cost is for the in-lab test for the metal arsenic using procedure 7060 as detailed in EPA SW-846.	
02 65 00 00-0019	EA Metals (Selenium) 7740, Lab Test	34.80
	Note: The cost is for the in-lab test for the metal selenium (SE) using procedure 7740 as detailed in EPA SW-846.	
02 65 00 00-0020	EA Metals (Lead) 7421, Lab Test	34.80
	Note: The cost is for the in-lab test for the metal lead using procedure 7421 as detailed in EPA SW-846.	
02 65 00 00-0021	EA Metals (Mercury) 7470, Lab Test	64.95
	Note: The cost is for the in-lab test for the metal mercury using procedure 7470 as detailed in EPA SW-846.	
02 65 00 00-0022	EA PNA/PAH 8100, Lab Test	371.15
	Note: The cost is for the in-lab test for polynuclear aromatic hydrocarbons using procedure 8100 as detailed in EPA SW-846.	
02 65 00 00-0023	EA Fuel Id ASTM D3328-78, Lab Test	134.27
	Note: The cost is for the in-lab test to determine the constituents of fuel using the procedure as detailed in ASTM D3328-78.	



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

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
02 65 00 00-0024	EA	pH, Lab Test.....	27.84	
02 65 00 00-0025	EA	Lab Test - Polychlorinated Biphenyl (PCB) In Wastewater.....	347.96	
02 65 00 00-0026	EA	Methyl Tertiary Butyl Ether (MTBE), Lab Test.....	208.77	
02 65 00 00-0027 Tests, Surveys And Maintenance For Underground Storage Tank (02 65 00 00-0001)				
02 65 00 00-0028	EA	Site Survey For AST/UST Location By Certified Tank Installer.....	1,203.58	
Note: Includes testing Pump output both tank and dispenser, Calibrate pump dispenser if needed, Check all sumps both tank and dispenser, check all fitting connections for leaks and check wiring connection for possible malfunction or safety hazard, check seals on caps for fill tube, check overfill performance for safety shutdown, check all hoses and pump handle, check break-away couplings, complete written report on all data found.				
02 65 00 00-0029	EA	Check Cathodic Protection - Impressed Current Systems And Sacrificial Anode Systems.....	208.57	
Note: By Certified Technician. Write report of findings for action if needed				
02 65 00 00-0030	EA	Check And Report On Monitor Probes.....	48.27	
Note: By Certified Technician				
02 65 00 00-0031	EA	Tank Monitoring System: Check System Per Manufacturer's Specification By Certified Technician With Written Report.....	339.54	
Note: Including pass / fail; paper feed operational paper installed etc.; and status of inspection repairs needed etc.				
02 65 00 00-0032	EA	Removal And Replacement Of Anode On Impressed System.....	165.48	
02 65 00 00-0033	EA	Removal And Replacement Of Power Converter On Impressed System On Underground Storage Tank.....	238.16	
02 65 00 00-0034	EA	Removal And Replacement Of Monitor Probes On Underground Storage Tank.....	343.50	
02 65 00 00-0035	EA	Ultrasonic Test On Underground Storage Tank.....	216.57	
02 65 00 00-0036 Tests And Sampling Labor Hours (02 65 00 00-0001)				
02 65 00 00-0037	HR	Certified Tank Installer For Underground Storage Tank.....	126.71	
02 65 00 00-0038	HR	Certified Geologist/Environmentalist.....	131.08	
02 65 00 00-0039	HR	Hourly Office Work For Reports Required For EPA On Underground Storage Tank.....	140.38	
Note: Includes title searches, well survey data, site drawings, submitting preliminary work, etc. Hours not to be used in association with other tasks performed.				
02 65 00 00-0040 Remove Tank Contents (02 65)				
02 65 00 00-0041 Transfer Liquid (02 65 00 00-0040)				
Note: For use to transfer liquids from one tank to another.				
02 65 00 00-0042	GAL	Transfer Reusable Liquid To Different Tank.....	0.65	
Note: Per gallon of material transferred.				
02 65 00 00-0043 Pump Contaminated Liquids And Rinse Material (02 65 00 00-0040)				
02 65 00 00-0044	GAL	Removal and Disposal Of Hazardous Liquids From Tank.....	1.87	
02 65 00 00-0045	GAL	Removal and Disposal Of Non-Hazardous Liquid From Tank.....	0.83	
02 65 00 00-0046 Sludge (02 65 00 00-0040)				
Note: Includes scraping and solidifying agent.				
02 65 00 00-0047	GAL	Removal and Disposal Of Hazardous Solids Or Sludge From Tank.....	6.86	
02 65 00 00-0048	GAL	Removal and Disposal Of Non-Hazardous Solids Or Sludge From Tank.....	1.54	
02 65 00 00-0049 Purge Vapors, Open And Clean Tank (02 65)				
02 65 00 00-0050 Purge Vapors (02 65 00 00-0049)				
02 65 00 00-0051	LB	Purge Tank Using Dry Ice.....	4.61	
Note: Approximately 1.5 To 3.0 Lb. of dry ice per 100 Gallons of tank volume.				
02 65 00 00-0052 High Pressure Water Wash And Rinse Of Tank Interior (02 65 00 00-0049)				
Note: Includes removal and disposal of rinse water.				
02 65 00 00-0053	EA	Up To 275 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	353.86	
02 65 00 00-0054	EA	>275 To 550 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	464.04	
02 65 00 00-0055	EA	>550 To 1,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	601.79	
02 65 00 00-0056	EA	>1,000 To 2,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	813.68	
02 65 00 00-0057	EA	>2,000 To 5,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,576.07	
02 65 00 00-0058	EA	>5,000 To 6,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	1,895.18	
02 65 00 00-0059	EA	>6,000 To 8,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,172.75	
02 65 00 00-0060	EA	>8,000 To 10,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	2,625.78	
02 65 00 00-0061	EA	>10,000 To 15,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	3,383.06	
02 65 00 00-0062	EA	>15,000 To 20,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	4,067.46	
02 65 00 00-0063	EA	>20,000 To 30,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	5,153.60	
02 65 00 00-0064	EA	>30,000 To 40,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	6,350.13	
02 65 00 00-0065	EA	>40,000 To 50,000 Gallon Tank, High Pressure Water Wash And Rinse Of Tank Interior.....	7,775.04	
02 65 00 00-0066 Scrape Clean Tank Exterior (02 65 00 00-0049)				
02 65 00 00-0067	EA	Up To 275 Gallon Tank, Scrape Clean Tank Exterior.....	259.49	
02 65 00 00-0068	EA	>275 To 550 Gallon Tank, Scrape Clean Tank Exterior.....	345.54	
02 65 00 00-0069	EA	>550 To 1,000 Gallon Tank, Scrape Clean Tank Exterior.....	452.78	
02 65 00 00-0070	EA	>1,000 To 2,000 Gallon Tank, Scrape Clean Tank Exterior.....	627.00	
02 65 00 00-0071	EA	>2,000 To 5,000 Gallon Tank, Scrape Clean Tank Exterior.....	1,388.53	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0072	EA		>5,000 To 6,000 Gallon Tank, Scrape Clean Tank Exterior	1,758.17	
02 65 00 00-0073	EA		>6,000 To 8,000 Gallon Tank, Scrape Clean Tank Exterior	2,057.38	
02 65 00 00-0074	EA		>8,000 To 10,000 Gallon Tank, Scrape Clean Tank Exterior	2,586.42	
02 65 00 00-0075	EA		>10,000 To 15,000 Gallon Tank, Scrape Clean Tank Exterior	3,361.70	
02 65 00 00-0076	EA		>15,000 To 20,000 Gallon Tank, Scrape Clean Tank Exterior	4,219.60	
02 65 00 00-0077	EA		>20,000 To 30,000 Gallon Tank, Scrape Clean Tank Exterior	5,494.28	
02 65 00 00-0078	EA		>30,000 To 40,000 Gallon Tank, Scrape Clean Tank Exterior	6,593.13	
02 65 00 00-0079	EA		>40,000 To 50,000 Gallon Tank, Scrape Clean Tank Exterior	8,241.41	
02 65 00 00-0080			Tank And Piping Removal (02 65) Note: Excludes excavation. See CSI section 02 61 13 00-0001 for excavation.		
02 65 00 00-0081			Removal And Disposal Of Piping (02 65 00 00-0080) Note: Includes removal, inspection, loading, transporting pipe to disposal facility or transfer station within 15 miles and disposal fees.		
02 65 00 00-0082	LF		Up To 4", Removal And Disposal Of Piping	20.75	
02 65 00 00-0083	LF		>4" To 8", Removal And Disposal Of Piping	27.66	
02 65 00 00-0084			Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement (02 65 00 00-0080) Note: Excludes excavation or backfill.		
02 65 00 00-0085	EA		Up To 275 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	723.50	
02 65 00 00-0086	EA		>275 To 550 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	878.54	
02 65 00 00-0087	EA		>550 To 1,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,033.58	
02 65 00 00-0088	EA		>1,000 To 2,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,291.97	
02 65 00 00-0089	EA		>2,000 To 5,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	1,808.74	
02 65 00 00-0090	EA		>5,000 To 6,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,273.85	
02 65 00 00-0091	EA		>6,000 To 8,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	2,583.92	
02 65 00 00-0092	EA		>8,000 To 10,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	3,100.72	
02 65 00 00-0093	EA		>10,000 To 15,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,134.28	
02 65 00 00-0094	EA		>15,000 To 20,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	4,956.09	
02 65 00 00-0095	EA		>20,000 To 30,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	5,807.52	
02 65 00 00-0096	EA		>30,000 To 40,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	6,794.30	
02 65 00 00-0097	EA		>40,000 To 50,000 Gallon Tank, Cut Straps, Extract Tank From The Diggings And Block To Prevent Movement	8,492.87	
02 65 00 00-0098			Cut Tank Into Sections That Can Easily Be Transported And Disposed Of When Necessary (02 65 00 00-0080) Note: Includes 1 lengthwise at every 4' on-center height wise.		
02 65 00 00-0099	EA		>1,000 To 2,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	876.58	
02 65 00 00-0100	EA		>2,000 To 5,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,634.71	
02 65 00 00-0101	EA		>5,000 To 6,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	1,966.39	
02 65 00 00-0102	EA		>6,000 To 8,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,191.46	
02 65 00 00-0103	EA		>8,000 To 10,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	2,629.75	
02 65 00 00-0104	EA		>10,000 To 15,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,269.41	
02 65 00 00-0105	EA		>15,000 To 20,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	3,932.78	
02 65 00 00-0106	EA		>20,000 To 30,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	4,915.97	
02 65 00 00-0107	EA		>30,000 To 40,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	6,144.98	
02 65 00 00-0108	EA		>40,000 To 50,000 Gallon Tank, Cut Tank Into Sections That Can Easily Be Transported And Disposed Of	7,681.21	
02 65 00 00-0109			Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station (02 65 00 00-0080) Note: Includes disposal fee.		
02 65 00 00-0110	EA		Up To 275 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	312.21	
			For Each Additional Mile >15 Miles, Add	4.79	
02 65 00 00-0111	EA		>275 To 550 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	422.90	
			For Each Additional Mile >15 Miles, Add	6.05	
02 65 00 00-0112	EA		>550 To 1,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	664.47	
			For Each Additional Mile >15 Miles, Add	9.08	
02 65 00 00-0113	EA		>1,000 To 2,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,026.21	
			For Each Additional Mile >15 Miles, Add	10.60	
02 65 00 00-0114	EA		>2,000 To 5,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,810.96	
			For Each Additional Mile >15 Miles, Add	18.67	
02 65 00 00-0115	EA		>5,000 To 6,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,871.51	
			For Each Additional Mile >15 Miles, Add	20.18	
02 65 00 00-0116	EA		>6,000 To 8,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	1,972.42	
			For Each Additional Mile >15 Miles, Add	22.71	
02 65 00 00-0117	EA		>8,000 To 10,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	2,857.46	
			For Each Additional Mile >15 Miles, Add	30.27	
02 65 00 00-0118	EA		>10,000 To 15,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	3,924.76	
			For Each Additional Mile >15 Miles, Add	45.41	
02 65 00 00-0119	EA		>15,000 To 20,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	4,588.40	
			For Each Additional Mile >15 Miles, Add	50.46	
02 65 00 00-0120	EA		>20,000 To 30,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	5,674.75	
			For Each Additional Mile >15 Miles, Add	60.55	
02 65 00 00-0121	EA		>30,000 To 40,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	7,926.09	
			For Each Additional Mile >15 Miles, Add	72.66	
02 65 00 00-0122	EA		>40,000 To 50,000 Gallon Tank, Load, Transport, And Dispose Of Tank At Disposal Facility Or Transfer Station	9,566.79	
			For Each Additional Mile >15 Miles, Add	83.56	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 65 00 00-0123 Other Storage Tank Removals (02 65 00 00-0080) Note: Based on tank gallon size		
02 65 00 00-0124 GAL Removal Of Cement Lining.....	0.62	
02 65 00 00-0125 GAL Sandblast Tank In Prep For Lining Or Welding; Remove Sand, Vacuum Walls And Seams.....	0.22	
02 65 00 00-0126 GAL Install Epoxy For Interior Corrosion Protection	1.34	
02 65 00 00-0127 Tank Closure Report (02 65 00 00-0080) Note: Excludes soils tests. See CSI section 02 65 00 00-0006 for soil tests.		
02 65 00 00-0128 EA Prepare Tank Closure Report.....	3,520.58	
02 65 00 00-0129 Temporary Tanks (02 65)		
02 65 00 00-0130 Temporary Holding Tanks (02 65 00 00-0129)		
02 65 00 00-0131 Above Ground Temporary Holding Tanks, Monthly Rental (02 65 00 00-0130)		
02 65 00 00-0132 MO 550 Gallon, Stainless Steel, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	965.25	
02 65 00 00-0133 MO 630 Gallon, Polyethylene, DOT Approved, Above Ground Temporary Holding Tanks, Monthly Rental	965.25	
02 65 00 00-0134 MO 630 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,930.49	
02 65 00 00-0135 MO 4,000 Gallon, Polyethylene, Stackable, Above Ground Temporary Holding Tanks, Monthly Rental	1,447.87	
02 65 00 00-0136 MO 4,000 Gallon, Polyethylene, Trailer Mounted, Above Ground Temporary Holding Tanks, Monthly Rental	3,378.36	
02 65 00 00-0137 MO 6,000 Gallon, Polyethylene, Total Drain, Above Ground Temporary Holding Tanks, Monthly Rental.....	2,413.12	
02 65 00 00-0138 MO 21,000 Gallon (500 BBL), Steel, Open, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	5,255.58	
02 65 00 00-0139 MO 21,000 Gallon (500 BBL), Steel, Closed, Stationary, Above Ground Temporary Holding Tanks, Monthly Rental	6,298.36	
02 65 00 00-0140 MO 21,000 Gallon (500 BBL), Steel, Vapor Proof, Above Ground Temporary Holding Tanks, Monthly Rental	10,636.30	
02 65 00 00-0141 Secondary Containment Berm (02 65 00 00-0129)		
02 65 00 00-0142 MO Secondary Containment Berm Monthly Rental	2,091.37	
02 80 Facility Remediation (02)		
02 81 Transportation and Disposal of Hazardous Materials (02 80)		
02 81 00 00-0001 Hazardous Material Disposal (02 81)		
02 81 00 00-0002 EA RCRA (Direct Landfill) Drums.....	511.76	
Note: Excludes stabilization. See CSI section 02 81 00 00-0003 for Stabilization (>5 ppm).		
02 81 00 00-0003 EA Stabilization (>5 ppm)	681.93	
02 81 00 00-0004 TON Bulk Hazardous Material Landfill Cost	431.72	
02 81 00 00-0005 Equipment Oil Drain And Disposal (02 81)		
02 81 00 00-0006 TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....	677.78	
Note: Excludes Disposal Cost.		
02 81 00 00-0007 DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....	106.51	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0008 DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....	484.12	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0009 DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	871.42	
Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0010 CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site	116.24	
Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.		
02 82 Asbestos Remediation (02 80)		
See CSI section 01 56 16 00-0033 for temporary stud walls, 01 74 19 00-0043 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for plastic sheeting for containment construction, 02 89 00 00-0009 for decontamination chambers.		
02 82 13 Asbestos Abatement (02 82)		
02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)		
Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.		
02 82 13 00-0002 HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	100.03	
02 82 13 00-0003 EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	63.06	
02 82 13 00-0004 EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	73.93	
02 82 13 00-0005 EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	117.42	
02 82 13 00-0006 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	202.22	
02 82 13 00-0007 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	245.71	
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	50.01	
02 82 13 00-0009 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing	60.88	
02 82 13 00-0010 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing	82.63	
02 82 13 00-0011 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	63.06	
02 82 13 00-0012 EA Next Day Turnaround, (Air Point Counting) PLM Test.....	73.93	
02 82 13 00-0013 EA Same Day Turnaround, (Air Point Counting) PLM Test.....	117.42	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 13 00-0014	EA		48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	202.22	
02 82 13 00-0015	EA		Next Day Turnaround, (Air) TEM Test, Asbestos Testing	232.66	
02 82 13 00-0016	EA		Same Day Turnaround, (Air) TEM Test, Asbestos Testing	323.99	
02 82 16 Engineering Control of Asbestos Containing Materials (02 82)					
02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)					
02 82 16 00-0002	SF		Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.71	
02 82 16 00-0003	SF		Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	2.34	
02 82 16 00-0004	SF		Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.54	
02 82 16 00-0005	SF		Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.75	
02 82 16 00-0006	SF		Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	8.56	
02 82 16 00-0007	SF		Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	9.70	
02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)					
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. The SET task includes portion for set-up and mobilization. For those tasks the contractor will be paid the first task of SET with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.					
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)					
02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)					
Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.					
02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)					
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.					
02 82 33 00-0004	SET		Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,262.15	
			For Work In Restricted Working Space, Add	373.46	
02 82 33 00-0005	LF		>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	43.29	
			For Work In Restricted Working Space, Add	12.73	
02 82 33 00-0006	LF		>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	32.69	
			For Work In Restricted Working Space, Add	9.55	
02 82 33 00-0007	LF		>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	24.73	
			For Work In Restricted Working Space, Add	7.16	
02 82 33 00-0008	LF		>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	18.76	
			For Work In Restricted Working Space, Add	5.37	
02 82 33 00-0009	LF		>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	16.43	
			For Work In Restricted Working Space, Add	4.67	
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)					
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.					
02 82 33 00-0011	SET		Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,279.44	
			For Work In Restricted Working Space, Add	373.46	
02 82 33 00-0012	LF		>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	50.54	
			For Work In Restricted Working Space, Add	14.64	
02 82 33 00-0013	LF		>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	38.33	
			For Work In Restricted Working Space, Add	10.98	
02 82 33 00-0014	LF		>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	29.18	
			For Work In Restricted Working Space, Add	8.24	
02 82 33 00-0015	LF		>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	22.31	
			For Work In Restricted Working Space, Add	6.17	
02 82 33 00-0016	LF		>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	19.63	
			For Work In Restricted Working Space, Add	5.37	
02 82 33 00-0017 >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)					
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.					
02 82 33 00-0018	SET		Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	1,296.73	
			For Work In Restricted Working Space, Add	373.46	
02 82 33 00-0019	LF		>20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	67.38	
			For Work In Restricted Working Space, Add	19.52	
02 82 33 00-0020	LF		>250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	51.11	
			For Work In Restricted Working Space, Add	14.64	
02 82 33 00-0021	LF		>500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	38.91	
			For Work In Restricted Working Space, Add	10.98	
02 82 33 00-0022	LF		>2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	29.75	
			For Work In Restricted Working Space, Add	8.23	
02 82 33 00-0023	LF		>10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal	26.18	
			For Work In Restricted Working Space, Add	7.16	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0024 >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0002) See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0025 SET Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	1,314.02 373.46	
02 82 33 00-0026 LF >20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	92.66 26.85	
02 82 33 00-0027 LF >250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	70.26 20.13	
02 82 33 00-0028 LF >500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	53.50 15.10	
02 82 33 00-0029 LF >2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	40.90 11.32	
02 82 33 00-0030 LF >10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	35.99 9.85	
02 82 33 00-0031 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0032 SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	805.50 240.09	
02 82 33 00-0033 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	135.11 40.01	
02 82 33 00-0034 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	53.51 15.53	
02 82 33 00-0035 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	40.56 11.65	
02 82 33 00-0036 LF >500 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	30.85 8.74	
02 82 33 00-0037 Thermal Insulation, Asbestos Abatement And Disposal ^(02 82 33)		
02 82 33 00-0038 Calcium Block Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0037)		
02 82 33 00-0039 SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal 02 82 33 00-0040 SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal 02 82 33 00-0041 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal 02 82 33 00-0042 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal 02 82 33 00-0043 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal	1,253.51 51.59 42.57 34.20 27.94	
02 82 33 00-0044 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0037)		
02 82 33 00-0045 SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal 02 82 33 00-0046 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0047 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0048 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0049 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	1,249.18 45.36 36.34 27.98 21.72	
02 82 33 00-0050 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal ^(02 82 33 00-0037)		
02 82 33 00-0051 SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0052 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal 02 82 33 00-0053 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal 02 82 33 00-0054 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal 02 82 33 00-0055 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal	1,247.74 40.24 31.22 22.86 16.58	
02 82 33 00-0056 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal ^(02 82 33 00-0037) Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0057 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal 02 82 33 00-0058 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal 02 82 33 00-0059 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0060 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal..... 02 82 33 00-0061 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	1,255.67 42.86 33.85 25.50 19.23	
02 82 33 00-0062 Surfacing Material, Asbestos Abatement And Disposal ^(02 82 33)		
02 82 33 00-0063 Fireproofing For Small Areas, Asbestos Abatement And Disposal ^(02 82 33 00-0062) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0065 for areas > 1 SF see CSI section.		
02 82 33 00-0064 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal..... Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	207.91	
02 82 33 00-0065 Fireproofing, Asbestos Abatement And Disposal ^(02 82 33 00-0062) Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0066 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal	1,255.67	

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0067	SF	>25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	51.35	
02 82 33 00-0068	SF	>500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	38.60	
02 82 33 00-0069	SF	>2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	29.06	
02 82 33 00-0070	SF	>10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	21.90	
02 82 33 00-0071		Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0062) Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0072	SET	Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	1,252.07	
02 82 33 00-0073	SF	>25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	21.56	
02 82 33 00-0074	SF	>500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	16.37	
02 82 33 00-0075	SF	>2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	12.22	
02 82 33 00-0076	SF	>10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	9.11	
02 82 33 00-0077		Plywood, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0078	SET	Up To 40 SF, Plywood, Asbestos Abatement And Disposal.....	1,256.39	
02 82 33 00-0079	SF	>50 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	17.93	
02 82 33 00-0080	SF	>500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	8.77	
02 82 33 00-0081	SF	>2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	6.01	
02 82 33 00-0082	SF	>10,000 SF, Plywood, Asbestos Abatement And Disposal.....	5.17	
02 82 33 00-0083		Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0084		Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0085	SET	Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	1,259.26	
02 82 33 00-0086	SF	>100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	7.51	
02 82 33 00-0087	SF	>500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.91	
02 82 33 00-0088	SF	>2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.16	
02 82 33 00-0089	SF	>10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.76	
02 82 33 00-0090		Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0091	SET	Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	1,054.67	
02 82 33 00-0092	LF	>10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	44.16	
02 82 33 00-0093	LF	>100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	33.56	
02 82 33 00-0094	LF	>250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	25.60	
02 82 33 00-0095	LF	>500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	19.63	
02 82 33 00-0096	LF	>2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	15.16	
02 82 33 00-0097	LF	>10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	14.84	
02 82 33 00-0098		Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0083)		
02 82 33 00-0099	SET	Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	1,269.28	
02 82 33 00-0100	SF	>125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	6.78	
02 82 33 00-0101	SF	>1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	5.45	
02 82 33 00-0102	SF	>5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	4.38	
02 82 33 00-0103	SF	>10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	3.32	
02 82 33 00-0104	SF	>20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal..... Note: Single or first of multiple layers.	2.52	
02 82 33 00-0105		Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0106		Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0105)		
02 82 33 00-0107	SET	Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	847.20 248.97	
02 82 33 00-0108	CF	>10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	84.25 24.76	
02 82 33 00-0109	CF	>100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	56.74 16.50	
02 82 33 00-0110	CF	>250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	43.05 12.40	
02 82 33 00-0111	CF	>500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	34.73 9.90	
02 82 33 00-0112	CF	>2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	29.78 8.42	
02 82 33 00-0113	CF	>10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal..... For Work In Restricted Working Space, Add	26.98 7.58	
02 82 33 00-0114		Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 82 33 00-0115	30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0116	SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	422.73
02 82 33 00-0117	EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	157.16
02 82 33 00-0118	EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	142.22

02 82 33 00-0119	Grout, Asbestos Abatement And Disposal (02 82 33 00-0114)	
Note: e.g. flue grout.		
02 82 33 00-0120	SET Up To 10 LF, Grout, Asbestos Abatement And Disposal.....	415.19
02 82 33 00-0121	LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal.....	16.36
02 82 33 00-0122	LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal.....	11.26
02 82 33 00-0123	LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal.....	9.65
02 82 33 00-0124	LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal.....	8.30
02 82 33 00-0125	LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal.....	7.15
02 82 33 00-0126	LF >2,500 LF, Grout, Asbestos Abatement And Disposal.....	6.13

02 82 33 00-0127	Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0114)	
Note: e.g. rope, web cloth, flat.		
02 82 33 00-0128	SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	415.31
02 82 33 00-0129	LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal.....	22.05
02 82 33 00-0130	LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal.....	16.55
02 82 33 00-0131	LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal.....	14.10
02 82 33 00-0132	LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal.....	12.69
02 82 33 00-0133	LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	11.41
02 82 33 00-0134	LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal.....	10.86

02 82 33 00-0135	Caulking, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0136	Non-Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0135)	
02 82 33 00-0137	SET Up To 10 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	415.19
02 82 33 00-0138	LF >10 To 50 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	12.26
02 82 33 00-0139	LF >50 To 100 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	8.65
02 82 33 00-0140	LF >100 To 250 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	6.44
02 82 33 00-0141	LF >250 To 1,000 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	4.84
02 82 33 00-0142	LF >1,000 To 2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	3.83
02 82 33 00-0143	LF >2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal.....	3.33

02 82 33 00-0144	Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0145	SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal.....	415.19
02 82 33 00-0146	LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal.....	16.36
02 82 33 00-0147	LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal.....	11.26
02 82 33 00-0148	LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal.....	9.65
02 82 33 00-0149	LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	8.30
02 82 33 00-0150	LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	7.15

02 82 33 00-0151	Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0152	SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	863.11
02 82 33 00-0153	EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	82.57
02 82 33 00-0154	EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	57.81
02 82 33 00-0155	EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	45.49
02 82 33 00-0156	EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	38.01
02 82 33 00-0157	EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	33.55
02 82 33 00-0158	EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	31.02

02 82 33 00-0159	Bearing Pads, Asbestos Abatement And Disposal (02 82 33 00-0114)	
02 82 33 00-0160	SET Up To 10 EA, Bearing Pads, Asbestos Abatement And Disposal.....	415.67
02 82 33 00-0161	EA >10 To 20 EA, Bearing Pads, Asbestos Abatement And Disposal.....	27.56
02 82 33 00-0162	EA >20 To 35 EA, Bearing Pads, Asbestos Abatement And Disposal.....	17.71
02 82 33 00-0163	EA >35 To 50 EA, Bearing Pads, Asbestos Abatement And Disposal.....	15.89
02 82 33 00-0164	EA >50 EA, Bearing Pads, Asbestos Abatement And Disposal.....	14.28

02 83 Lead Remediation (02 80)

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

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

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 83 19 13**Lead-Based Paint Abatement** (02 83 19)

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

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

02 83 19 13-0002	EA	Lead-Based Paint Remediation Minimum Show Up Charge.....	1,272.73
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.			

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

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

02 83 19 13-0004	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	93.81
02 83 19 13-0005	EA	X-Ray Fluorescence (XRF) Lead Testing	74.96
Note: Including Technician, 3 Readings Per Surface And Lab Fee			
02 83 19 13-0006	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	71.76
02 83 19 13-0007	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	108.72
02 83 19 13-0008	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	152.21
02 83 19 13-0009	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	28.27
02 83 19 13-0010	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	43.49
02 83 19 13-0011	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	54.36
02 83 19 13-0012	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	71.76
02 83 19 13-0013	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	108.72
02 83 19 13-0014	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee	11.96
02 83 19 13-0015	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	16.31
02 83 19 13-0016	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	23.92
02 83 19 13-0017	EA	5 Day Turnaround Lead Air Samples And Lab Fee	11.96
02 83 19 13-0018	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	16.31
02 83 19 13-0019	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	23.92
02 83 19 13-0020	EA	5 Day Turnaround Lead Water Test and Lab Fee	43.49
02 83 19 13-0021	EA	24 Hour Turnaround Lead Water Test and Lab Fee	65.23
02 83 19 13-0022	EA	8 Hour Turnaround Lead Water Test and Lab Fee	86.98
02 83 19 13-0023	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee	44.97
02 83 19 13-0024	EA	5 Day Turnaround Lead Soil Test and Lab Fee	89.95

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

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

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	36.00
For 0.025" (25 mil) Application, Add			2.05
For 0.03" (30 mil) Application, Add			3.23
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	53.37
For 0.025" (25 mil) Application, Add			2.92
For 0.03" (30 mil) Application, Add			4.53
02 83 19 13-0028	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material	8.56
For 0.025" (25 mil) Application, Add			0.63
For 0.03" (30 mil) Application, Add			1.07
02 83 19 13-0029	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	32.15
For 0.025" (25 mil) Application, Add			1.81
For 0.03" (30 mil) Application, Add			2.84
02 83 19 13-0030	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	38.33
For 0.025" (25 mil) Application, Add			2.12
For 0.03" (30 mil) Application, Add			3.30
02 83 19 13-0031	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	24.84
For 0.025" (25 mil) Application, Add			1.54
For 0.03" (30 mil) Application, Add			2.50
For 0.125" (125 mil) Application, Add			15.21
02 83 19 13-0032	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	11.13
For 0.025" (25 mil) Application, Add			0.71
For 0.03" (30 mil) Application, Add			1.15
For 0.125" (125 mil) Application, Add			7.28
02 83 19 13-0033	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	19.92
For 0.025" (25 mil) Application, Add			1.25
For 0.03" (30 mil) Application, Add			2.03
For 0.125" (125 mil) Application, Add			12.48
02 83 19 13-0034	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	27.29
For 0.025" (25 mil) Application, Add			1.66
For 0.03" (30 mil) Application, Add			2.68
For 0.125" (125 mil) Application, Add			15.82
02 83 19 13-0035	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	48.92
For 0.025" (25 mil) Application, Add			2.90
For 0.03" (30 mil) Application, Add			4.63
For 0.125" (125 mil) Application, Add			25.73



Existing Conditions			02
Facility Remediation			02 80
Lead Remediation			02 83

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
02 83 19 13-0036	SF >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area		14.61	
	For 0.025" (25 mil) Application, Add		0.84	
	For 0.03" (30 mil) Application, Add		1.33	
	For 0.125" (125 mil) Application, Add		6.89	
02 83 19 13-0037	EA Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material		290.44	
	For 0.025" (25 mil) Application, Add		15.97	
	For 0.03" (30 mil) Application, Add		24.87	
02 83 19 13-0038	SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material		11.21	
	For 0.025" (25 mil) Application, Add		0.76	
	For 0.03" (30 mil) Application, Add		1.27	
	For 0.125" (125 mil) Application, Add		8.80	
02 83 19 13-0039	SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material		12.73	
	For 0.025" (25 mil) Application, Add		0.84	
	For 0.03" (30 mil) Application, Add		1.38	
	For 0.125" (125 mil) Application, Add		9.18	
02 83 19 13-0040	SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material		12.69	
	For 0.025" (25 mil) Application, Add		0.83	
	For 0.03" (30 mil) Application, Add		1.38	
	For 0.125" (125 mil) Application, Add		9.17	
02 83 19 13-0041	SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material		58.29	
	For 0.025" (25 mil) Application, Add		3.31	
	For 0.03" (30 mil) Application, Add		5.22	
	For 0.125" (125 mil) Application, Add		26.57	
02 83 19 13-0042	LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material		10.13	
	For 0.025" (25 mil) Application, Add		0.66	
	For 0.03" (30 mil) Application, Add		1.08	
	For 0.125" (125 mil) Application, Add		7.03	
02 83 19 13-0043	SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material		29.65	
	Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.			
	For 0.025" (25 mil) Application, Add		1.78	
	For 0.03" (30 mil) Application, Add		2.86	
	For 0.125" (125 mil) Application, Add		16.41	
02 83 19 13-0044	SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material		32.40	
	Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.			
	For 0.025" (25 mil) Application, Add		1.87	
	For 0.03" (30 mil) Application, Add		2.96	
	For 0.125" (125 mil) Application, Add		15.60	
02 83 19 13-0045	Demolish Lead Contaminated Material (02 83 19 13)			
	Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.			
02 83 19 13-0046	SF Demolish Brick, Lead Contaminated Material		4.46	
02 83 19 13-0047	SF Demolish Concrete Block, Lead Contaminated Material		5.74	
02 83 19 13-0048	SF Demolish Up To 6" Concrete, Lead Contaminated Material		6.51	
02 83 19 13-0049	IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth		5.07	
02 83 19 13-0050	IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth		6.76	
02 83 19 13-0051	LF Demolish Wood Balustrades And Railings, Lead Contaminated Material		7.40	
02 83 19 13-0052	SF Demolish Concrete, Lead Contaminated Material		14.73	
02 83 19 13-0053	LF Demolish Cabinets, Lead Contaminated Material		34.32	
02 83 19 13-0054	SF Demolish Grilles, Lead Contaminated Material		4.13	
02 83 19 13-0055	EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material		17.85	
02 83 19 13-0056	LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material		7.32	
02 83 19 13-0057	LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material		10.67	
02 83 19 13-0058	LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material		16.13	
02 83 19 13-0059	LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material		29.75	
02 83 19 13-0060	EA Demolish Radiators, Lead Contaminated Material		128.50	
02 83 19 13-0061	SF Demolish Siding, Lead Contaminated Material		1.99	
02 83 19 13-0062	SF Demolish Flat Steel Surfaces, Lead Contaminated Material		4.63	
02 83 19 13-0063	SF Demolish Steel Beams, Lead Contaminated Material		5.46	
02 83 19 13-0064	SF Demolish Trusses, Lead Contaminated Material		7.15	
02 83 19 13-0065	SF Demolish Metal Stair, Lead Contaminated Material		8.51	
02 83 19 13-0066	LF Demolish Single Metal Hand Rail, Lead Contaminated Material		6.26	
02 83 19 13-0067	LF Demolish Metal Railing And Posts, Lead Contaminated Material		10.21	
02 83 19 13-0068	SF Demolish Metal Picket Fence, Lead Contaminated Material		2.81	
02 83 19 13-0069	SF Demolish Plywood, Lead Contaminated Material		7.69	
02 83 19 13-0070	SF Demolish Planks (Various Sizes), Lead Contaminated Material		3.75	
02 83 19 13-0071	EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material		23.45	
02 83 19 13-0072	LF Demolish Metal Guard Rails, Lead Contaminated Material		14.07	
02 83 19 13-0073	Wet Sanding/Light Scraping Of Lead Contaminated Material (02 83 19 13)			
	Note: Remove loose, flaking lead-based paint to prepare for painting.			
02 83 19 13-0074	SF Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting		3.58	
02 83 19 13-0075	Lead Abatement Encapsulation (02 83 19 13)			
	Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.			
02 83 19 13-0076	SF Balustrades, Lead Abatement Encapsulation		6.51	
02 83 19 13-0077	SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation		4.19	
02 83 19 13-0078	SF Columns, Lead Abatement Encapsulation		5.06	
02 83 19 13-0079	SF Picket Fence (Brush), Lead Abatement Encapsulation		3.03	

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

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02 83 19 13-0080	SF	Wood Floors (Roller), Lead Abatement Encapsulation	2.54
02 83 19 13-0081	SF	Grilles, Vents, Lead Abatement Encapsulation	7.02
02 83 19 13-0082	EA	Hangers, Lead Abatement Encapsulation	55.23
02 83 19 13-0083	LF	Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	3.95
02 83 19 13-0084	LF	>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	5.71
02 83 19 13-0085	LF	>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	8.86
02 83 19 13-0086	LF	>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	13.08
02 83 19 13-0087	SF	Siding, Lead Abatement Encapsulation	3.61
02 83 19 13-0088	SF	Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation	4.19
02 83 19 13-0089	SF	Steel Beams And Metal Decks, Lead Abatement Encapsulation	5.47
02 83 19 13-0090	SF	Trusses, Lead Abatement Encapsulation	5.47

02 83 33 Removal and Disposal of Material Containing Lead (02 83)**02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)****02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)**

02 83 33 13-0002	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent	0.30
02 83 33 13-0003	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate	0.29
02 83 33 13-0004	SF	High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting	1.48

02 86 Hazardous Waste Drum Handling (02 86)**02 86 00 00-0001 Hazardous Waste Packaging (02 86)****02 86 00 00-0002 Overpacks (02 86 00 00-0001)****02 86 00 00-0003 Steel Salvage Drums, 16 Gauge (02 86 00 00-0002)**

02 86 00 00-0004	EA	110 Gallon, 30" Diameter X 41" High	515.13
02 86 00 00-0005	EA	85 Gallon, 26" Diameter X 38" High	293.23
02 86 00 00-0006	EA	83 Gallon, 26" Diameter X 36" High	283.01
02 86 00 00-0007	EA	55 Gallon, DOT 17C, 18" Diameter X 34" High	177.06
02 86 00 00-0008	EA	30 Gallon, DOT 17C, 18" Diameter X 28" High	139.48
02 86 00 00-0009	EA	22 Gallon, 16" Diameter X 25" High	93.97
02 86 00 00-0010	EA	15 Gallon, DOT 17C, 14" Diameter X 24" High	84.97
02 86 00 00-0011	EA	10 Gallon, 13.8" Diameter X 15" High	74.87

02 86 00 00-0012 Polyethylene Overpacks (02 86 00 00-0002)

02 86 00 00-0013	EA	95 Gallon, DOT E9618, Twist On Lid 31" Diameter X 41" High	581.87
02 86 00 00-0014	EA	20 Gallon, Labpack, Twist On Lid 21" Diameter X 7.5" High	107.53
02 86 00 00-0015	EA	85 Gallon, DOT E9775, Clamp Ring Lid, 27" Diameter X 41" High	526.52

02 86 00 00-0016 Composite Overpacks (02 86 00 00-0002)

02 86 00 00-0017	EA	55 Gal, DOT 17C, Steel Drum Nested With 2-20 Gallon Fiber Drums	285.72
02 86 00 00-0018	EA	55 Gal, DOT 17C, Steel Drum Nested With 4-10 Gallon Fiber Drums	392.08
02 86 00 00-0019	EA	85 Gal, 16 Gauge Salvage Drum Nested With 3-20 Gallon Fiber Drums	531.82

02 86 00 00-0020 DOT E-9168 Exempt Packaging (02 86 00 00-0002)

02 86 00 00-0021	EA	32 Oz Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	49.55
02 86 00 00-0022	EA	950 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	52.28
02 86 00 00-0023	EA	500 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	51.11
02 86 00 00-0024	EA	250 cc Bottle, Carton, Insert, Can, Poly Bag And Tape -E9168	25.31
02 86 00 00-0025	EA	Can, Carton, Insert, Tape - Corrosive And Flammable - UPS	15.31
02 86 00 00-0026	EA	16 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	8.10
02 86 00 00-0027	EA	32 Oz Bottle, Carton, Insert And Tape, Sludge/Viscous, UPS	10.53

02 86 00 00-0028 Steel Drums (02 86 00 00-0001)**02 86 00 00-0029 UN Rated Steel Drums (02 86 00 00-0028)**

02 86 00 00-0030	EA	UN 1A2/X 320/S 55 Gallon, Open, 16 Gauge, Steel Drum	135.52
02 86 00 00-0031	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (25-49)	1,380.00
02 86 00 00-0032	EA	8 Gallon, 17C, Open, Steel Drum	95.94
02 86 00 00-0033	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (10-24)	1,113.58
02 86 00 00-0034	EA	55 Gallon Reconditioned Steel 17h Drum (50+)	93.85
02 86 00 00-0035	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (25-49)	1,092.62
02 86 00 00-0036	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (10-24)	1,598.52
02 86 00 00-0037	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (50+)	1,308.15
02 86 00 00-0038	EA	UN 1A2/X 320/S 55 Gallon, Closed, 16 Gauge, Steel Drum	128.09
02 86 00 00-0039	EA	UN 1A2/Y 1.4/100 55 Gallon, Open, 16 Gauge, Steel Drum	103.86
02 86 00 00-0040	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (1-9)	1,445.85
02 86 00 00-0041	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (25-49)	1,568.59
02 86 00 00-0042	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (50+)	984.86
02 86 00 00-0043	EA	55 Gallon Stainless Steel DOT 5C Ch Seamless Drum 16-Gauge (50+)	1,412.93
02 86 00 00-0044	EA	UN 1A2/Y 1.4/100 55 Gallon, Closed, 16 Gauge, Steel Drum	81.85



Existing Conditions			02
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Hazardous Waste Drum Handling			02 86

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MINOR			TOTAL DIRECT	DEMOLITION
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02 86 00 00-0045	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (10-24).....	1,418.91	
02 86 00 00-0046	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	927.98	
02 86 00 00-0047	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	892.06	
02 86 00 00-0048	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (1-9).....	1,508.72	
02 86 00 00-0049	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (25-49).....	1,278.22	
02 86 00 00-0050	EA	UN 1A2/X 160/S 30 Gallon, Open, 18 Gauge, Steel Drum.....	94.88	
02 86 00 00-0051	EA	55 Gallon Stainless Steel DOT 5C Oh 16-Gauge Drum (50+).....	1,212.36	
02 86 00 00-0052	EA	UN 1A2/Y 1.4/100 30 Gallon, Open, 18 Gauge, Steel Drum.....	80.65	
02 86 00 00-0053	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (10-24).....	1,472.80	
02 86 00 00-0054	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	853.14	
02 86 00 00-0055	EA	30 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	823.21	
02 86 00 00-0056	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (25-49).....	1,445.85	
02 86 00 00-0057	EA	30 Gallon, 17E, Open, Steel Drum.....	58.51	
02 86 00 00-0058	EA	55 Gallon Reconditioned Steel 17h Drum (1-9).....	137.65	
02 86 00 00-0059	EA	20 Gallon, 17C, Open, Steel Drum.....	82.23	
02 86 00 00-0060	EA	55 Gallon Stainless Steel DOT 5C Ch 16-Gauge Drum (50+).....	1,302.17	
02 86 00 00-0061	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (1-9).....	1,559.61	
02 86 00 00-0062	EA	55 Gallon Reconditioned Steel 17h Drum (10-24).....	122.00	
02 86 00 00-0063	EA	55 Gallon Reconditioned Steel 17h Drum (25-49).....	106.36	
02 86 00 00-0064	EA	55 Gallon Stainless Steel DOT 17E Ch 18-Gauge Drum (1-9).....	1,140.52	
02 86 00 00-0065	EA	55 Gallon Stainless Steel DOT 5C Seamless Oh Drum 16-Gauge (10-24).....	1,529.67	
02 86 00 00-0066	EA	20 Gallon, 17E, Open, Steel Drum.....	55.35	
02 86 00 00-0067	Plastic Drums (02 86 00 00-0001)			
02 86 00 00-0068	Polyethylene Closed Head Drums (02 86 00 00-0067)			
Note: Closed head drums have standard NPS (National Pipe Standard) plug and drain vents. Primarily for liquids.				
02 86 00 00-0069	EA	55 Gallon Polyethylene Closed Head Drums.....	85.08	
02 86 00 00-0070	EA	35 Gallon Polyethylene Closed Head Drums.....	65.31	
02 86 00 00-0071	EA	30 Gallon Polyethylene Closed Head Drums.....	59.30	
02 86 00 00-0072	EA	20 Gallon Polyethylene Closed Head Drums.....	41.43	
02 86 00 00-0073	EA	15 Gallon Polyethylene Closed Head Drums.....	40.64	
02 86 00 00-0074	Polyethylene Open Head Drums (02 86 00 00-0067)			
Note: Open head drums are primarily used for solids and sludge.				
02 86 00 00-0075	EA	55 Gallon Polyethylene Open Head Drums.....	107.53	
02 86 00 00-0076	EA	35 Gallon Polyethylene Open Head Drums.....	79.07	
02 86 00 00-0077	EA	30 Gallon Polyethylene Open Head Drums.....	75.11	
02 86 00 00-0078	EA	20 Gallon Polyethylene Open Head Drums.....	55.35	
02 86 00 00-0079	EA	15 Gallon Polyethylene Open Head Drums.....	47.44	
02 86 00 00-0080	Fiber Drums (02 86 00 00-0001)			
02 86 00 00-0081	Steel Top/Fiber Bottom Drums, Hazardous (02 86 00 00-0080)			
Note: Waste fiber drums have tubular rubber gaskets and caulked bottom seams.				
02 86 00 00-0082	EA	30 Gallon Fiber Drum DOT-21C (1-9).....	65.15	
02 86 00 00-0083	EA	30 Gallon Fiber Drum DOT-21C (10-24).....	61.04	
02 86 00 00-0084	EA	30 Gallon Fiber Drum DOT-21C (25-49).....	55.66	
02 86 00 00-0085	EA	30 Gallon Fiber Drum DOT-21C (50+).....	55.03	
02 86 00 00-0086	EA	55 Gallon Fiber Drum DOT-21C (1-9).....	67.05	
02 86 00 00-0087	EA	55 Gallon Fiber Drum DOT-21C (10-24).....	63.25	
02 86 00 00-0088	EA	55 Gallon Fiber Drum DOT-21C (25-49).....	58.51	
02 86 00 00-0089	EA	55 Gallon Fiber Drum DOT-21C (50-99).....	56.61	
02 86 00 00-0090	EA	55 Gallon Fiber Drum DOT-21C (100+).....	49.02	
02 86 00 00-0091	EA	10 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	41.75	
02 86 00 00-0092	EA	20 Gallon, 20" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	45.54	
02 86 00 00-0093	EA	20 Gallon, 23" Diameter, DOT 21C-250 Polyethylene/Polyester Lined.....	53.13	
02 86 00 00-0094	Loading Hazardous Waste For Shipment (02 86 00 00-0001)			
02 86 00 00-0095	EA	Load Drums On Disposal Truck.....	12.00	
02 86 00 00-0096	EA	Load Liquid Or Sludge Into 5,000 Gallon Bulk Tank Truck.....	1,250.54	
02 86 00 00-0097	Transport Drums To Landfill (02 86 00 00-0001)			
Note: Includes transportation for up to 25 miles.				
02 86 00 00-0098	EA	Transport Drum To Landfill.....	102.29	
Note: Includes transportation for up to 25 miles.				

02 87 Bio-Hazard Material Remediation (02 80)

02 87 13 Mold Remediation (02 87)

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

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)

02 87 13 33-0001 Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)
Note: Treat fittings as additional lf of insulation.

02 87 13 33-0002 Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)
Note: Diameter is outer size of insulation.

02 87 13 33-0003 Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)
Note: Excludes encased fittings.

02 87 13 33-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	838.56
02 87 13 33-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	32.52
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	24.50
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.48
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	13.96
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	12.20

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

02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	864.49
02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	38.63
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	29.41
02 87 13 33-0014	LF	>500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	22.49
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	17.29
02 87 13 33-0016	LF	>10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	15.27

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

02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	851.52
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	18.87
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	14.26
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	10.80
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	8.38

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

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

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

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

02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal	844.32
02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal	18.73
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal	14.12
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	10.66
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal	8.09

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

Note: Exposed surface area, includes associated overspray.

02 87 13 33-0032	SET	Up To 50 SF, Fireproofing, Mold Abatement And Disposal	851.52
02 87 13 33-0033	SF	>50 To 500 SF, Fireproofing, Mold Abatement And Disposal	25.84
02 87 13 33-0034	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	19.52
02 87 13 33-0035	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	14.75
02 87 13 33-0036	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal	11.17

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

02 87 13 33-0039	SET	Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	858.73
02 87 13 33-0040	SF	>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	7.70
02 87 13 33-0041	SF	>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.35
02 87 13 33-0042	SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.61
02 87 13 33-0043	SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.25

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

02 87 13 33-0046	SET	Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal	864.49
02 87 13 33-0047	CF	>20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal	30.43
02 87 13 33-0048	CF	>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	20.87
02 87 13 33-0049	CF	>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	16.08
02 87 13 33-0050	CF	>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	13.21
02 87 13 33-0051	CF	>2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	8.00
02 87 13 33-0052	CF	>10,000 CF, Contaminated Debris, Mold Abatement And Disposal	7.37



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

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0053 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)			
02 87 13 33-0054 Caulking, Mold Abatement And Disposal (02 87 13 33-0053)			
02 87 13 33-0055	SET Up To 20 LF, Caulking, Mold Abatement And Disposal	207.96	
02 87 13 33-0056	LF >20 To 50 LF, Caulking, Mold Abatement And Disposal	4.17	
02 87 13 33-0057	LF >50 To 100 LF, Caulking, Mold Abatement And Disposal	2.98	
02 87 13 33-0058	LF >100 To 250 LF, Caulking, Mold Abatement And Disposal	2.26	
02 87 13 33-0059	LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.68	
02 87 13 33-0060	LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal	1.36	
02 87 13 33-0061	LF >2,500 LF, Caulking, Mold Abatement And Disposal	1.17	
02 87 13 33-0062 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0053)			
02 87 13 33-0063	CSF Wipe Down Floors With Mild Bleach Solution	23.06	
	For >25 To 50, Deduct	-2.31	
	For >50 To 200, Deduct	-5.76	
	For >200, Deduct	-9.22	
02 87 13 33-0064	CSF Wipe Down Walls With Mild Bleach Solution	27.13	
	For >25 To 50, Deduct	-2.71	
	For >50 To 200, Deduct	-6.78	
	For >200, Deduct	-10.85	
02 87 13 33-0065	CSF Wipe Down Ceilings With Mild Bleach Solution	30.87	
	For >25 To 50, Deduct	-3.09	
	For >50 To 200, Deduct	-7.72	
	For >200, Deduct	-12.34	
02 87 13 33-0066	CSF Wipe Down Countertops With Mild Bleach Solution	25.16	
	For >25 To 50, Deduct	-2.52	
02 87 13 33-0067	CSF Wipe Down Other Surfaces With Mild Bleach Solution	31.93	
	For >25 To 50, Deduct	-3.19	
	For >50 To 200, Deduct	-7.98	
	For >200, Deduct	-12.77	
02 87 16 Excrement Removal (02 87)			
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks, the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.			
02 87 16 13 Bird Excrement Removal (02 87 16)			
02 87 16 13-0001 Bird Waste Removal (02 87 16 13)			
Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.			
02 87 16 13-0002	EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness	829.91	
	For Work In Restricted Working Space, Add	248.97	
02 87 16 13-0003	SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness	13.83	
	For Work In Restricted Working Space, Add	4.15	
02 87 16 13-0004	SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	12.58	
	For Work In Restricted Working Space, Add	3.77	
02 87 16 13-0005	SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	11.43	
	For Work In Restricted Working Space, Add	3.43	
02 87 16 13-0006	SF >10,000 SF Bird Waste Removal, Up To 3" Thickness	10.40	
	For Work In Restricted Working Space, Add	3.12	
02 89 Hazmat Ancillary Tasks and Support (02 89)			
02 89 00 00-0001 Barriers And Protection (02 89)			
Note: Includes removal and disposal after use.			
02 89 00 00-0002 Hazmat Containment Construction Plastic Sheetting (02 89 00 00-0001)			
02 89 00 00-0003	SF 6 Mil Plastic Sheetting, Applied To Floors, Hazmat Containment Construction	0.51	
02 89 00 00-0004	SF 6 Mil Plastic Sheetting, Applied To Walls, Hazmat Containment Construction	0.67	
02 89 00 00-0005	SF 6 Mil Plastic Sheetting, Applied To Ceilings, Hazmat Containment Construction	0.89	
02 89 00 00-0006	SF 6 Mil Plastic Fire Retardant, Anti-static Sheetting, Applied To Floors, Hazmat Containment Construction	0.79	
02 89 00 00-0007	SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheetting, Applied To Walls, Hazmat Containment Construction	0.99	
02 89 00 00-0008	SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheetting, Applied To Ceilings, Hazmat Containment Construction	1.31	
02 89 00 00-0009 Decontamination Chambers (02 89)			
Note: Includes removal after use.			
02 89 00 00-0010	EA 3 Stage Portable Personnel Decontamination Wash Facility	1,083.58	
	Note: Includes connection to negative air system.		
02 89 00 00-0011	EA 5 Stage Portable Personnel Decontamination Wash Facility	1,278.07	
	Note: Includes connection to negative air system.		
02 89 00 00-0012	EA Portable Waste Decontamination Unit	669.25	
	Note: Includes connection to negative air system.		
	For Dismantling And Relocation To A Different Area, Add	438.71	

02	02	Existing Conditions
	02 80	Facility Remediation
	02 89	Hazmat Ancillary Tasks and Support



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST

END OF SECTION 02



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

03

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 Concrete

03 01 Maintenance of Concrete⁽⁰³⁾

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

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

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

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

Note: Includes containment and clean-up of all material. Includes steel ball media.

03 01 30 51-0002	SF	Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.97	
		For Up To 100, Add	3.36	
		For >100 To 250, Add	0.84	
		For >250 To 500, Add	0.42	
		For >5,000 To 10,000, Deduct	-0.08	
		For >10,000, Deduct	-0.17	
03 01 30 51-0003	SF	Concrete Walls, Abrasive Shot (Bead) Blasting.....	5.65	
		For Up To 100, Add	6.72	
		For >100 To 250, Add	1.68	
		For >250 To 500, Add	0.84	
		For >5,000 To 10,000, Deduct	-0.17	
		For >10,000, Deduct	-0.34	

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

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

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

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

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

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

03 01 30 71-0004	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar	7.26	
03 01 30 71-0005	SF	Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	23.04	
03 01 30 71-0006	SF	Patch Decks Or Floors With White Aluminum Oxide Grit (Non-Slip Aggregate).....	0.65	

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

03 01 30 71-0008	SF	Grinding Cured, Warped, Or Rough Concrete Slabs	1.19	

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

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

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

03 01 30 71-0010	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	10.87	
03 01 30 71-0011	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	31.48	
03 01 30 71-0012	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	35.46	
03 01 30 71-0013	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	9.57	
03 01 30 71-0014	SF	Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound	16.91	

Note: Rapid Set - WunderFixx

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

03 01 30 71-0016	SF	Patch Circular Piers With 1/8" To 1/4" Elastomeric Patching Compound	13.39	
03 01 30 71-0017	SF	Patch Circular Piers With 1/8" To 1/4" Copolymer Cementitious Compound.....	23.02	

Note: Rapid Set - WunderFixx

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

03 01 30 71-0019	SF	Sweep Bridge Deck	0.02	
03 01 30 71-0020	SF	Clean Bridge Deck	0.02	
03 01 30 71-0021	SF	Treat Bridge Deck With Methacrylate Resin Sealant	2.36	

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

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

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

03 01 30 71-0025	BAG	Sika Top 111 Plus.....	182.47	
		Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar.		
		Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 Lb. of 3/8" pea gravel).		
		For Up To 10, Add	65.81	
		For >10 To 25, Add	39.49	
		For >25 To 50, Add	26.32	
		For >50 To 75, Add	13.16	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0026 BAG Sika Grout 212, 50 Lb. Bag.....	125.70	
Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.		
For Up To 10, Add	41.67	
For >10 To 25, Add	25.00	
For >25 To 50, Add	16.67	
For >50 To 75, Add	8.33	
03 01 30 71-0027 EA Sika Flex 1A, 10.3 Ounce Tube.....	43.49	
Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.		
03 01 30 71-0028 BAG Pea Gravel.....	32.59	
03 01 30 71-0029 Crack Repair For Concrete (03 01 30 71-0001)		
03 01 30 71-0030 Non-Structural Crack Repair For Concrete (03 01 30 71-0029)		
03 01 30 71-0031 Surface Applied, Non-Structural Crack Repair For Concrete (03 01 30 71-0030)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0032 LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.68	
For V-Grooving Crack With Grinder, Add	5.33	
03 01 30 71-0033 LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	8.75	
For V-Grooving Crack With Grinder, Add	5.21	
03 01 30 71-0034 LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.82	
For V-Grooving Crack With Grinder, Add	5.33	
03 01 30 71-0035 LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	9.04	
For V-Grooving Crack With Grinder, Add	5.21	
03 01 30 71-0036 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.35	
For V-Grooving Crack With Grinder, Add	5.33	
03 01 30 71-0037 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	10.08	
For V-Grooving Crack With Grinder, Add	5.21	
03 01 30 71-0038 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.73	
For V-Grooving Crack With Grinder, Add	5.33	
03 01 30 71-0039 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	10.84	
For V-Grooving Crack With Grinder, Add	5.21	
03 01 30 71-0040 Pressure Injected, Non-Structural Crack Repair For Concrete (03 01 30 71-0030)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0041 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non-Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	30.81	
For Cracks Accessible From Both Sides, Add	6.28	
03 01 30 71-0042 Structural Crack Repair For Concrete (03 01 30 71-0029)		
03 01 30 71-0043 Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0042)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0044 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.82	
For V-Grooving Crack With Grinder, Add	5.33	
03 01 30 71-0045 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	11.04	
For V-Grooving Crack With Grinder, Add	5.21	
03 01 30 71-0046 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	7.62	
For V-Grooving Crack With Grinder, Add	5.33	
03 01 30 71-0047 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	10.63	
For V-Grooving Crack With Grinder, Add	5.21	
03 01 30 71-0048 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	9.32	
For V-Grooving Crack With Grinder, Add	5.33	
03 01 30 71-0049 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	14.03	
For V-Grooving Crack With Grinder, Add	5.21	
03 01 30 71-0050 Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0042)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		



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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0051	LF	Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	26.73	
		<i>For Cracks Accessible From Both Sides, Add</i>	6.28	
03 01 30 71-0052	LF	Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	26.52	
		<i>For Cracks Accessible From Both Sides, Add</i>	6.28	
03 01 30 71-0053		Carbon Fiber Strengthening System (03 01 30 71-0001) Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0054	SF	Carbon Fiber Strengthening System For Concrete Beams, Per Layer	94.13	
		Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0055	SF	Carbon Fiber Strengthening System For Concrete Columns, Per Layer	83.19	
		Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0056	SF	Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer	77.03	
		Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0057	SF	Carbon Fiber Strengthening System For Concrete Walls, Per Layer.....	73.60	
		Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0058	SF	Carbon Fiber Strengthening System For Concrete Slab, Per Layer	68.81	
		Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 72		Strengthening Of Cast-in-Place Concrete (03 01 30)		
03 01 30 72-0001		Concrete Surface Repairs (03 01 30 72)		
03 01 30 72-0002	SF	Sound The Concrete Surface To Locate Delaminated Areas	0.42	
03 05		Common Work Results For Concrete (03)		
03 05 13		Concrete Admixtures (03 05)		
03 05 13 00-0001		Concrete Admixtures (03 05 13)		
03 05 13 00-0002	CY	Low Range Water Reducing (LRWR), Type A Concrete Admixture	8.24	
03 05 13 00-0003	CY	Set Retarding, Type B Concrete Admixture	5.70	
03 05 13 00-0004	CY	1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	8.87	
03 05 13 00-0005	CY	2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	17.75	
03 05 13 00-0006	CY	1% Non-Chloride Accelerating, Type C Concrete Admixture.....	15.85	
03 05 13 00-0007	CY	2% Non-Chloride Accelerating, Type C Concrete Admixture.....	31.69	
03 05 13 00-0008	CY	1% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture.....	6.85	
03 05 13 00-0009	CY	2% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture.....	13.35	
03 05 13 00-0010	CY	1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	9.51	
03 05 13 00-0011	CY	2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	19.02	
03 05 13 00-0012	CY	Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	6.34	
03 05 13 00-0013	CY	High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	15.21	
03 05 13 00-0014	CY	1 Lb./CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	13.52	
03 05 13 00-0015	CY	1-1/2 Lb./CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture.....	20.28	
03 05 13 00-0016	CY	25 Lb./CY Steel Fibers, Concrete Admixture	40.18	
03 05 13 00-0017	CY	10% Microsilica (Silica Fume), Concrete Admixture	101.42	
03 05 13 00-0018	CY	Corrosion Inhibiting Concrete Admixture	38.03	
03 05 13 00-0019	CY	Winter Service Or Heat, Concrete Add	20.28	
03 05 13 00-0020	CY	Chilled Water, Concrete Add	20.28	
03 05 13 00-0021	CY	Subtle Color (See Davis Colors Color Card), Concrete Admixture	39.57	
03 05 13 00-0022	CY	Standard Color (See Davis Colors Color Card), Concrete Admixture.....	65.94	
03 05 13 00-0023	CY	Premium Color (See Davis Colors Color Card), Concrete Admixture.....	126.61	
03 05 13 00-0024	CY	Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	175.85	
03 10		Concrete Forming and Accessories (03)		
03 11		Concrete Forming (03 10)		
03 11 13		Structural Cast-In-Place Concrete Forming (03 11)		
		Note: Per square foot of formwork.		
03 11 13 00-0001		Wood Formwork (03 11 13) Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0002		Foundation Wood Formwork (03 11 13 00-0001) Note: For foundation work below or at grade.		
03 11 13 00-0003	SF	Continuous Footings Foundation Wood Formwork.....	9.53	
		<i>For <1,000, Add</i>	1.78	
		<i>For Foundations >8' Below Grade, Add</i>	1.72	
		<i>For Curved Formwork, Add</i>	3.44	
03 11 13 00-0004	SF	Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	11.35	
		<i>For <1,000, Add</i>	2.14	
		<i>For Foundations >8' Below Grade, Add</i>	2.08	
		<i>For Curved Formwork, Add</i>	4.16	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0005 SF Mat Foundation Wood Formwork.....	13.06	
For <1,000, Add	2.50	
For Foundations >8' Below Grade, Add	2.45	
For Curved Formwork, Add	4.89	
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork	10.91	
For <1,000, Add	2.07	
For Foundations >8' Below Grade, Add	2.02	
For Curved Formwork, Add	4.03	
03 11 13 00-0007 SF Below Grade Walls Foundation Wood Formwork	15.51	
Note: Excludes footing		
For <1,000, Add	2.94	
For Foundations >8' Below Grade, Add	2.85	
For Curved Formwork, Add	5.70	
03 11 13 00-0008 Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009 LF Up To 6" High Slab Edge and Block-Out Wood Formwork	7.36	
For Foundations >8' Below Grade, Add	1.37	
For Curved Formwork, Add	2.75	
For Up To 250, Add	1.41	
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork	10.54	
For Foundations >8' Below Grade, Add	1.92	
For Curved Formwork, Add	3.83	
For Up To 250, Add	1.98	
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork.....	13.47	
For Foundations >8' Below Grade, Add	2.48	
For Curved Formwork, Add	4.95	
For <1,000, Add	2.55	
03 11 13 00-0012 Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013 LF Up To 8" Square Column Wood Formwork.....	56.88	
03 11 13 00-0014 LF >8" To 12" Square Column Wood Formwork.....	82.56	
03 11 13 00-0015 LF >12" To 18" Square Column Wood Formwork	103.68	
03 11 13 00-0016 LF >18" To 24" Square Column Wood Formwork	148.75	
03 11 13 00-0017 LF >24" To 36" Square Column Wood Formwork	213.42	
03 11 13 00-0018 LF >36" To 48" Square Column Wood Formwork	281.95	
03 11 13 00-0019 Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020 SF Up To 8' High Above Grade Wall Wood Formwork.....	17.35	
For Curved Formwork, Add	6.44	
For <1,000, Add	3.30	
03 11 13 00-0021 SF >8' High Above Grade Wall Wood Formwork	20.55	
For Curved Formwork, Add	7.64	
For <1,000, Add	3.92	
03 11 13 00-0022 Elevated Beam Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023 SF Bottom of Elevated Beam Wood Formwork	22.74	
For Curved Formwork, Add	8.39	
For <1,000, Add	4.31	
03 11 13 00-0024 SF Vertical Sides of Elevated Beam Wood Formwork	14.38	
For Curved Formwork, Add	5.36	
For <1,000, Add	2.74	
03 11 13 00-0025 Elevated Slab Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026 SF Elevated Slab Wood Formwork	13.40	
For <1,000, Add	2.47	
03 11 13 00-0027 Metal Framed Formwork (03 11 13)		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028 Foundation Metal Framed Formwork (03 11 13 00-0027)		
Note: For foundation work below or at grade.		
03 11 13 00-0029 SF Continuous Footings Foundation Metal Framed Formwork	9.46	
For <1,000, Add	1.69	
For Foundations >8' Below Grade, Add	1.59	
For Curved Formwork, Add	3.18	
03 11 13 00-0030 SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork	10.44	
For <1,000, Add	1.88	
For Foundations >8' Below Grade, Add	1.78	
For Curved Formwork, Add	3.56	
03 11 13 00-0031 SF Mat Foundation Metal Framed Formwork	11.78	
For <1,000, Add	2.10	
For Foundations >8' Below Grade, Add	1.97	
For Curved Formwork, Add	3.93	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
03 11 13 00-0032	SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork	9.95		
	For <1,000, Add	1.77		
	For Foundations >8' Below Grade, Add	1.65		
	For Curved Formwork, Add	3.31		
03 11 13 00-0033	SF Below Grade Walls Foundation Metal Framed Formwork	14.98		
	Note: Excludes footing.			
	For <1,000, Add	2.72		
	For Foundations >8' Below Grade, Add	2.58		
	For Curved Formwork, Add	5.16		
03 11 13 00-0034	Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)			
03 11 13 00-0035	LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork	6.38		
	For Foundations >8' Below Grade, Add	1.23		
	For Curved Formwork, Add	2.47		
	For <250, Add	1.25		
03 11 13 00-0036	LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork	8.01		
	For Foundations >8' Below Grade, Add	1.53		
	For Curved Formwork, Add	3.07		
	For <250, Add	1.56		
03 11 13 00-0037	SF >12" High Slab Edge and Block-Out Metal Framed Formwork	8.88		
	For Foundations >8' Below Grade, Add	1.70		
	For Curved Formwork, Add	3.39		
	For <1,000, Add	1.72		
03 11 13 00-0038	Column Metal Framed Formwork (03 11 13 00-0027)			
03 11 13 00-0039	Square Columns (03 11 13 00-0038)			
03 11 13 00-0040	LF Up To 12" Square Column Metal Framed Formwork	58.39		
03 11 13 00-0041	LF >12" To 16" Square Column Metal Framed Formwork	70.82		
03 11 13 00-0042	LF >16" To 20" Square Column Metal Framed Formwork	83.27		
03 11 13 00-0043	LF >20" To 24" Square Column Metal Framed Formwork	99.37		
03 11 13 00-0044	LF >24" To 30" Square Column Metal Framed Formwork	119.84		
03 11 13 00-0045	LF >30" To 36" Square Column Metal Framed Formwork	144.15		
03 11 13 00-0046	LF >36" To 48" Square Column Metal Framed Formwork	185.13		
03 11 13 00-0047	LF >48" To 60" Square Column Metal Framed Formwork	228.70		
03 11 13 00-0048	Round Columns (03 11 13 00-0038)			
03 11 13 00-0049	LF Up To 12" Diameter Column Metal Formwork	64.89		
03 11 13 00-0050	LF >12" To 16" Diameter Column Metal Formwork	71.58		
03 11 13 00-0051	LF >16" To 20" Diameter Column Metal Formwork	81.50		
03 11 13 00-0052	LF >20" To 24" Diameter Column Metal Formwork	93.86		
03 11 13 00-0053	LF >24" To 30" Diameter Column Metal Formwork	110.04		
03 11 13 00-0054	LF >30" To 36" Diameter Column Metal Formwork	125.47		
03 11 13 00-0055	LF >36" To 48" Diameter Column Metal Formwork	165.50		
03 11 13 00-0056	LF >48" To 60" Diameter Column Metal Formwork	222.98		
03 11 13 00-0057	Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)			
03 11 13 00-0058	SF Up to 8' High Above Grade Wall Metal Framed Formwork	9.52		
	For Curved Formwork, Add	2.97		
	For <1,000, Add	1.63		
03 11 13 00-0059	SF >8' High Above Grade Wall Metal Framed Formwork.....	11.70		
	For Curved Formwork, Add	3.59		
	For <1,000, Add	1.98		
03 11 13 00-0060	Elevated Beam Metal Framed Formwork (03 11 13 00-0027)			
	Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.			
03 11 13 00-0061	SF Bottom of Elevated Beam Metal Framed Formwork	9.33		
	For Curved Formwork, Add	2.77		
	For <1,000, Add	1.55		
03 11 13 00-0062	SF Vertical Sides of Elevated Beam Metal Framed Formwork.....	7.15		
	For Curved Formwork, Add	2.19		
	For <1,000, Add	1.21		
03 11 13 00-0063	Elevated Slab Metal Framed Formwork (03 11 13 00-0027)			
	Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.			
03 11 13 00-0064	SF Elevated Slab Metal Framed Formwork.....	12.39		
	For <1,000, Add	1.85		
03 11 13 00-0065	Fiber Tube Formwork (03 11 13)			
	Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.			
03 11 13 00-0066	Round Column Fiber Tube Formwork (03 11 13 00-0065)			
03 11 13 00-0067	LF 6" Diameter Round Fiber Tube Formwork	22.46		
	For Plastic Lined, Add	0.88		
	For Columns >12' In Length, Add	2.25		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0068 LF 8" Diameter Round Fiber Tube Formwork 23.75 For Plastic Lined, Add 1.04 For Columns >12' In Length, Add 2.38		
03 11 13 00-0069 LF 10" Diameter Round Fiber Tube Formwork 26.40 For Plastic Lined, Add 1.25 For Columns >12' In Length, Add 2.64		
03 11 13 00-0070 LF 12" Diameter Round Fiber Tube Formwork 32.69 For Plastic Lined, Add 2.23 For Columns >12' In Length, Add 3.27		
03 11 13 00-0071 LF 14" Diameter Round Fiber Tube Formwork 36.74 For Plastic Lined, Add 2.82 For Columns >12' In Length, Add 3.67		
03 11 13 00-0072 LF 16" Diameter Round Fiber Tube Formwork 40.04 For Plastic Lined, Add 3.51 For Columns >12' In Length, Add 4.00		
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork 43.13 For Plastic Lined, Add 4.11 For Columns >12' In Length, Add 4.31		
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork 49.14 For Plastic Lined, Add 5.58 For Columns >12' In Length, Add 4.91		
03 11 13 00-0075 LF 22" Diameter Round Fiber Tube Formwork 51.43 For Plastic Lined, Add 5.81 For Columns >12' In Length, Add 5.14		
03 11 13 00-0076 LF 24" Diameter Round Fiber Tube Formwork 54.02 For Plastic Lined, Add 6.13 For Columns >12' In Length, Add 5.40		
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork 56.25 For Plastic Lined, Add 6.62 For Columns >12' In Length, Add 5.63		
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork 58.47 For Plastic Lined, Add 7.10 For Columns >12' In Length, Add 5.85		
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork 60.70 For Plastic Lined, Add 7.59 For Columns >12' In Length, Add 6.07		
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork 70.15 For Plastic Lined, Add 9.76 For Columns >12' In Length, Add 7.02		
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork 110.52 For Plastic Lined, Add 21.40 For Columns >12' In Length, Add 11.05		
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork 134.66 For Plastic Lined, Add 28.16 For Columns >12' In Length, Add 13.47		
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork 242.90 For Plastic Lined, Add 59.87 For Columns >12' In Length, Add 24.29		
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork 270.51 For Plastic Lined, Add 67.56 For Columns >12' In Length, Add 27.05		
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials 2.71		
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials 2.86		
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials 3.32		
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials 3.83		
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork 13.91		
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 16.20		
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 19.52		
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 23.59		
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 26.65		
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 34.32		
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal 74.09		
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork 6.56		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 11 16 13-0003	SF		Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	8.75	
03 11 16 13-0004	SF		Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	11.49	

03 11 23 Permanent Stair Forming (03 11)

03 11 23 00-0001 Stairway Wood Formwork (03 11 23)

03 11 23 00-0002	SF		Cast On Grade Stairway Wood Formwork	22.05	
			For Curved Formwork, Add	8.50	
			For <1,000, Add	4.30	
03 11 23 00-0003	SF		Elevated Stairway Wood Formwork	43.67	
			Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
			For Curved Formwork, Add	16.63	
			For <1,000, Add	8.45	

03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)

03 11 23 00-0005	SF		Cast On Grade Stairway Metal Framed Formwork	19.03	
			For Curved Formwork, Add	7.05	
			For <1,000, Add	3.62	
03 11 23 00-0006	SF		Elevated Stairway Metal Framed Formwork	34.89	
			Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
			For Curved Formwork, Add	13.04	
			For <1,000, Add	6.67	

03 15 Concrete Accessories (03 10)

03 15 13 Waterstops (03 15)

03 15 13 13 Non-Expanding Waterstops (03 15 13)

03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)

03 15 13 13-0002	LF		3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	10.47	
03 15 13 13-0003	LF		3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	11.70	
03 15 13 13-0004	LF		3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	13.93	
03 15 13 13-0005	LF		3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.21	
03 15 13 13-0006	LF		1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	22.11	
03 15 13 13-0007	LF		3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.12	
03 15 13 13-0008	LF		3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.03	
03 15 13 13-0009	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	24.02	
03 15 13 13-0010	LF		3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	19.28	

03 15 13 13-0011 Rubber Waterstops (03 15 13 13)

03 15 13 13-0012	LF		3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	11.55	
03 15 13 13-0013	LF		3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	13.14	
03 15 13 13-0014	LF		1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	11.77	
03 15 13 13-0015	LF		1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	15.75	
03 15 13 13-0016	LF		3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	13.43	
03 15 13 13-0017	LF		3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	16.87	

03 15 13 16 Expanding Waterstops (03 15 13)

03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)

03 15 13 16-0002	LF		3/4" x 3/8" Bentonite Waterstop	9.14	
03 15 13 16-0003	LF		1-1/4" x 1/2" Bentonite Waterstop	13.81	
03 15 13 16-0004	LF		1" x 3/4" Bentonite Waterstop	15.45	
03 15 13 16-0005	LF		1" x 1" Bentonite Waterstop	17.38	

03 15 16 Concrete Construction Joints (03 15)

03 15 16 00-0001 Poured Expansion Joint (03 15 16)

03 15 16 00-0002	LF		1/2" x 1" Plain Asphalt Expansion Joint, Poured	3.39	0.92
			For Installation In Walls, Add	1.55	
03 15 16 00-0003	LF		1" x 2" Plain Asphalt Expansion Joint, Poured	7.69	0.92
			For Installation In Walls, Add	1.73	
03 15 16 00-0004	LF		1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	3.67	0.92
			For Installation In Walls, Add	1.55	
03 15 16 00-0005	LF		1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	8.78	0.92
			For Installation In Walls, Add	1.73	
03 15 16 00-0006	LF		1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	5.30	0.92
			For Installation In Walls, Add	1.73	
03 15 16 00-0007	LF		1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts	9.71	0.92
			For Installation In Walls, Add	2.82	
03 15 16 00-0008	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.78	0.92
			For Installation In Walls, Add	1.55	
03 15 16 00-0009	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	4.67	0.92
			For Installation In Walls, Add	1.55	
03 15 16 00-0010	LF		1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	12.29	0.92
			For Installation In Walls, Add	1.73	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 15 16 00-0011	Premolded Expansion Joints (03 15 16)		
03 15 16 00-0012	Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0013	LF 1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.92	1.36
03 15 16 00-0014	LF 1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.31	1.43
03 15 16 00-0015	LF 1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.56	1.49
03 15 16 00-0016	LF 1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.82	1.56
03 15 16 00-0017	LF 3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.16	1.36
03 15 16 00-0018	LF 3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.49	1.43
03 15 16 00-0019	LF 3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.91	1.49
03 15 16 00-0020	LF 3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.48	1.56
03 15 16 00-0021	LF 1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	2.87	1.29
03 15 16 00-0022	LF 1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	3.12	1.36
03 15 16 00-0023	LF 1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.40	1.43
03 15 16 00-0024	LF 1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.65	1.49
03 15 16 00-0025	LF 1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.94	1.56
03 15 16 00-0026	LF 1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.37	1.63
03 15 16 00-0027	LF 1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	4.68	1.70
03 15 16 00-0028	LF 1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	5.23	1.76
03 15 16 00-0029	LF 3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.42	1.43
03 15 16 00-0030	LF 3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.89	1.49
03 15 16 00-0031	LF 3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.72	1.63
03 15 16 00-0032	SF 1" Asphalt Saturated Fiber, Premolded Expansion Joint	8.03	2.25
03 15 16 00-0033	Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034	LF 1/2" x 4" Cork, Premolded Expansion Joint	4.76	1.43
03 15 16 00-0035	LF 1/2" x 6" Cork, Premolded Expansion Joint	5.34	1.56
03 15 16 00-0036	LF 1/2" x 8" Cork, Premolded Expansion Joint	5.80	1.63
03 15 16 00-0037	LF 1/2" x 10" Cork, Premolded Expansion Joint	7.98	1.70
03 15 16 00-0038	LF 1/2" x 12" Cork, Premolded Expansion Joint	8.49	1.76
03 15 16 00-0039	SF 1/2" Cork, Premolded Expansion Joint	9.45	2.25
03 15 16 00-0040	SF 3/4" Cork, Premolded Expansion Joint	10.87	2.25
03 15 16 00-0041	SF 1" Cork, Premolded Expansion Joint	11.52	2.25
03 15 16 00-0042	Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043	LF 1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.15	1.43
03 15 16 00-0044	LF 1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.29	1.49
03 15 16 00-0045	LF 1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.46	1.56
03 15 16 00-0046	LF 1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.99	1.63
03 15 16 00-0047	LF 1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.23	1.43
03 15 16 00-0048	LF 1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.38	1.49
03 15 16 00-0049	LF 1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.52	1.56
03 15 16 00-0050	LF 1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.86	1.63
03 15 16 00-0051	Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052	LF 1" Zip Strip, Premolded Expansion Joint.....	3.18	1.43
03 15 16 00-0053	LF 1-1/2" Zip Strip, Premolded Expansion Joint	3.46	1.49
03 15 16 00-0054	LF 2" Zip Strip, Premolded Expansion Joint.....	3.85	1.63
03 15 16 00-0055	Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056	LF 1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	5.11	1.36
03 15 16 00-0057	LF 1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	6.14	1.36
03 15 16 00-0058	Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059	SF Asphalt Felt Control Joint, 30 Lb. Felt Bond Breaker	1.53	1.02
	>1,250, Deduct	-0.08	
03 15 16 00-0060	SF Asphalt Felt Control Joint, 15 Lb. Felt Bond Breaker	1.44	1.02
	>1,250, Deduct	-0.07	
03 15 16 00-0061	Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062	24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063	LF 24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint	7.64	
03 15 16 00-0064	LF 24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint	7.76	
03 15 16 00-0065	LF 24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint	8.04	
03 15 16 00-0066	LF 24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint	8.49	
03 15 16 00-0067	LF 24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint	10.42	
03 15 19	Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001	Cast In Place Anchors (03 15 19)		
	Note: For cast in place installations. Includes nut and washer.		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
03 15 19 00-0002	J-Type Anchor Bolts (03 15 19 00-0001) See CSI section 03 11 13 00-0002 for template.			
03 15 19 00-0003	1/2" And 5/8" Diameter (03 15 19 00-0002)			
03 15 19 00-0004	EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		13.86	
	For Galvanized, Add		3.07	
	For Stainless Steel, Add		21.46	
	For >10 To 50, Deduct		-0.39	
	For >50 To 100, Deduct		-0.93	
	For >100, Deduct		-1.85	
03 15 19 00-0005	EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		16.13	
	For Galvanized, Add		3.91	
	For Stainless Steel, Add		27.34	
	For >10 To 50, Deduct		-0.42	
	For >50 To 100, Deduct		-1.03	
	For >100, Deduct		-2.05	
03 15 19 00-0006	EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		19.78	
	For Galvanized, Add		5.38	
	For Stainless Steel, Add		37.66	
	For >10 To 50, Deduct		-0.45	
	For >50 To 100, Deduct		-1.17	
	For >100, Deduct		-2.34	
03 15 19 00-0007	EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		23.08	
	For Galvanized, Add		7.03	
	For Stainless Steel, Add		49.21	
	For >10 To 50, Deduct		-0.45	
	For >50 To 100, Deduct		-1.25	
	For >100, Deduct		-2.51	
03 15 19 00-0008	EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		28.60	
	For Galvanized, Add		9.39	
	For Stainless Steel, Add		65.70	
	For >10 To 50, Deduct		-0.49	
	For >50 To 100, Deduct		-1.45	
	For >100, Deduct		-2.90	
03 15 19 00-0009	EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		32.27	
	For Galvanized, Add		10.73	
	For Stainless Steel, Add		75.08	
	For >10 To 50, Deduct		-0.54	
	For >50 To 100, Deduct		-1.62	
	For >100, Deduct		-3.24	
03 15 19 00-0010	3/4" And 7/8" Diameter (03 15 19 00-0002)			
03 15 19 00-0011	EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		32.12	
	For Galvanized, Add		10.65	
	For Stainless Steel, Add		74.55	
	For >10 To 50, Deduct		-0.54	
	For >50 To 100, Deduct		-1.61	
	For >100, Deduct		-3.23	
03 15 19 00-0012	EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		36.84	
	For Galvanized, Add		12.41	
	For Stainless Steel, Add		86.87	
	For >10 To 50, Deduct		-0.60	
	For >50 To 100, Deduct		-1.82	
	For >100, Deduct		-3.65	
03 15 19 00-0013	EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		45.31	
	For Galvanized, Add		15.90	
	For Stainless Steel, Add		111.27	
	For >10 To 50, Deduct		-0.68	
	For >50 To 100, Deduct		-2.15	
	For >100, Deduct		-4.29	
03 15 19 00-0014	EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		55.23	
	For Galvanized, Add		20.04	
	For Stainless Steel, Add		140.25	
	For >10 To 50, Deduct		-0.76	
	For >50 To 100, Deduct		-2.52	
	For >100, Deduct		-5.04	
03 15 19 00-0015	EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		42.63	
	For Galvanized, Add		14.56	
	For Stainless Steel, Add		101.89	
	For >10 To 50, Deduct		-0.68	
	For >50 To 100, Deduct		-2.08	
	For >100, Deduct		-4.16	
03 15 19 00-0016	EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		50.32	
	For Galvanized, Add		17.43	
	For Stainless Steel, Add		122.01	
	For >10 To 50, Deduct		-0.77	
	For >50 To 100, Deduct		-2.42	
	For >100, Deduct		-4.84	
03 15 19 00-0017	EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt		64.49	
	For Galvanized, Add		23.23	
	For Stainless Steel, Add		162.61	
	For >10 To 50, Deduct		-0.90	
	For >50 To 100, Deduct		-2.96	
	For >100, Deduct		-5.93	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 15 19 00-0018	1" And 1-1/8" Diameter (03 15 19 00-0002)			
03 15 19 00-0019	EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.11		
	For Galvanized, Add	18.83		
	For Stainless Steel, Add	131.78		
	For >10 To 50, Deduct	-0.77		
	For >50 To 100, Deduct	-2.49		
	For >100, Deduct	-4.97		
03 15 19 00-0020	EA 1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	63.34		
	For Galvanized, Add	22.66		
	For Stainless Steel, Add	158.59		
	For >10 To 50, Deduct	-0.90		
	For >50 To 100, Deduct	-2.94		
	For >100, Deduct	-5.87		
03 15 19 00-0021	EA 1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	78.45		
	For Galvanized, Add	28.41		
	For Stainless Steel, Add	198.84		
	For >10 To 50, Deduct	-1.08		
	For >50 To 100, Deduct	-3.58		
	For >100, Deduct	-7.17		
03 15 19 00-0022	EA 1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	96.47		
	For Galvanized, Add	34.71		
	For Stainless Steel, Add	242.94		
	For >10 To 50, Deduct	-1.35		
	For >50 To 100, Deduct	-4.44		
	For >100, Deduct	-8.88		
03 15 19 00-0023	EA 1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	64.05		
	For Galvanized, Add	23.54		
	For Stainless Steel, Add	164.78		
	For >10 To 50, Deduct	-0.85		
	For >50 To 100, Deduct	-2.87		
	For >100, Deduct	-5.75		
03 15 19 00-0024	EA 1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	76.45		
	For Galvanized, Add	28.33		
	For Stainless Steel, Add	198.28		
	For >10 To 50, Deduct	-0.99		
	For >50 To 100, Deduct	-3.40		
	For >100, Deduct	-6.79		
03 15 19 00-0025	EA 1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	94.78		
	For Galvanized, Add	35.51		
	For Stainless Steel, Add	248.57		
	For >10 To 50, Deduct	-1.19		
	For >50 To 100, Deduct	-4.15		
	For >100, Deduct	-8.30		
03 15 19 00-0026	EA 1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	116.46		
	For Galvanized, Add	43.38		
	For Stainless Steel, Add	303.66		
	For >10 To 50, Deduct	-1.49		
	For >50 To 100, Deduct	-5.14		
	For >100, Deduct	-10.28		
03 15 19 00-0027	1-1/4" And 1-1/2" Diameter (03 15 19 00-0002)			
03 15 19 00-0028	EA 1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	77.64		
	For Galvanized, Add	29.42		
	For Stainless Steel, Add	205.94		
	For >10 To 50, Deduct	-0.94		
	For >50 To 100, Deduct	-3.35		
	For >100, Deduct	-6.70		
03 15 19 00-0029	EA 1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	92.76		
	For Galvanized, Add	35.42		
	For Stainless Steel, Add	247.91		
	For >10 To 50, Deduct	-1.10		
	For >50 To 100, Deduct	-3.96		
	For >100, Deduct	-7.93		
03 15 19 00-0030	EA 1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	115.11		
	For Galvanized, Add	44.40		
	For Stainless Steel, Add	310.77		
	For >10 To 50, Deduct	-1.32		
	For >50 To 100, Deduct	-4.85		
	For >100, Deduct	-9.70		
03 15 19 00-0031	EA 1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	141.33		
	For Galvanized, Add	54.22		
	For Stainless Steel, Add	379.54		
	For >10 To 50, Deduct	-1.64		
	For >50 To 100, Deduct	-6.00		
	For >100, Deduct	-12.00		
03 15 19 00-0032	EA 1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	94.63		
	For Galvanized, Add	36.78		
	For Stainless Steel, Add	257.43		
	For >10 To 50, Deduct	-1.05		
	For >50 To 100, Deduct	-3.95		
	For >100, Deduct	-7.89		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 15 19 00-0033	EA 1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	113.12		
	For Galvanized, Add	44.26		
	For Stainless Steel, Add	309.82		
	For >10 To 50, Deduct	-1.23		
	For >50 To 100, Deduct	-4.67		
	For >100, Deduct	-9.35		
03 15 19 00-0034	EA 1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	140.53		
	For Galvanized, Add	55.51		
	For Stainless Steel, Add	388.54		
	For >10 To 50, Deduct	-1.48		
	For >50 To 100, Deduct	-5.73		
	For >100, Deduct	-11.45		
03 15 19 00-0035	EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	172.44		
	For Galvanized, Add	67.78		
	For Stainless Steel, Add	474.46		
	For >10 To 50, Deduct	-1.84		
	For >50 To 100, Deduct	-7.08		
	For >100, Deduct	-14.15		
03 15 19 00-0036	L-Type Anchor Bolts (03 15 19 00-0001)			
	See CSI section 03 11 13 00-0002 for template.			
03 15 19 00-0037	3/4" And 7/8" Diameter (03 15 19 00-0036)			
03 15 19 00-0038	EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	28.30		
	For Galvanized, Add	8.14		
	For Stainless Steel, Add	56.98		
	For >10 To 50, Deduct	-0.60		
	For >50 To 100, Deduct	-1.61		
	For >100, Deduct	-3.22		
03 15 19 00-0039	EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.63		
	For Galvanized, Add	10.06		
	For Stainless Steel, Add	70.39		
	For >10 To 50, Deduct	-0.68		
	For >50 To 100, Deduct	-1.85		
	For >100, Deduct	-3.71		
03 15 19 00-0040	EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	38.52		
	For Galvanized, Add	11.53		
	For Stainless Steel, Add	80.71		
	For >10 To 50, Deduct	-0.77		
	For >50 To 100, Deduct	-2.12		
	For >100, Deduct	-4.25		
03 15 19 00-0041	EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.97		
	For Galvanized, Add	11.97		
	For Stainless Steel, Add	83.79		
	For >10 To 50, Deduct	-0.90		
	For >50 To 100, Deduct	-2.40		
	For >100, Deduct	-4.80		
03 15 19 00-0042	EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	46.77		
	For Galvanized, Add	12.57		
	For Stainless Steel, Add	87.96		
	For >10 To 50, Deduct	-1.08		
	For >50 To 100, Deduct	-2.79		
	For >100, Deduct	-5.58		
03 15 19 00-0043	EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.71		
	For Galvanized, Add	10.10		
	For Stainless Steel, Add	70.67		
	For >10 To 50, Deduct	-0.68		
	For >50 To 100, Deduct	-1.86		
	For >100, Deduct	-3.71		
03 15 19 00-0044	EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	38.98		
	For Galvanized, Add	11.76		
	For Stainless Steel, Add	82.32		
	For >10 To 50, Deduct	-0.77		
	For >50 To 100, Deduct	-2.13		
	For >100, Deduct	-4.27		
03 15 19 00-0045	EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	45.00		
	For Galvanized, Add	13.49		
	For Stainless Steel, Add	94.40		
	For >10 To 50, Deduct	-0.90		
	For >50 To 100, Deduct	-2.48		
	For >100, Deduct	-4.95		
03 15 19 00-0046	EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	49.64		
	For Galvanized, Add	14.00		
	For Stainless Steel, Add	98.00		
	For >10 To 50, Deduct	-1.08		
	For >50 To 100, Deduct	-2.86		
	For >100, Deduct	-5.73		
03 15 19 00-0047	EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	56.48		
	For Galvanized, Add	14.71		
	For Stainless Steel, Add	102.97		
	For >10 To 50, Deduct	-1.35		
	For >50 To 100, Deduct	-3.44		
	For >100, Deduct	-6.88		

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 15 19 00-0048	1" And 1-1/8" Diameter (03 15 19 00-0036)				
03 15 19 00-0049	EA	1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.35		
		For Galvanized, Add	12.95		
		For Stainless Steel, Add	90.62		
		For >10 To 50, Deduct	-0.77		
		For >50 To 100, Deduct	-2.19		
		For >100, Deduct	-4.39		
03 15 19 00-0050	EA	1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	47.14		
		For Galvanized, Add	14.56		
		For Stainless Steel, Add	101.89		
		For >10 To 50, Deduct	-0.90		
		For >50 To 100, Deduct	-2.53		
		For >100, Deduct	-5.06		
03 15 19 00-0051	EA	1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	54.20		
		For Galvanized, Add	16.28		
		For Stainless Steel, Add	113.96		
		For >10 To 50, Deduct	-1.08		
		For >50 To 100, Deduct	-2.98		
		For >100, Deduct	-5.96		
03 15 19 00-0052	EA	1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	57.62		
		For Galvanized, Add	17.05		
		For Stainless Steel, Add	119.32		
		For >10 To 50, Deduct	-1.18		
		For >50 To 100, Deduct	-3.21		
		For >100, Deduct	-6.41		
03 15 19 00-0053	EA	1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	62.76		
		For Galvanized, Add	17.85		
		For Stainless Steel, Add	124.95		
		For >10 To 50, Deduct	-1.35		
		For >50 To 100, Deduct	-3.60		
		For >100, Deduct	-7.20		
03 15 19 00-0054	EA	1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	71.43		
		For Galvanized, Add	20.69		
		For Stainless Steel, Add	144.80		
		For >10 To 50, Deduct	-1.50		
		For >50 To 100, Deduct	-4.04		
		For >100, Deduct	-8.08		
03 15 19 00-0055	EA	1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	84.50		
		For Galvanized, Add	24.21		
		For Stainless Steel, Add	169.47		
		For >10 To 50, Deduct	-1.80		
		For >50 To 100, Deduct	-4.82		
		For >100, Deduct	-9.64		
03 15 19 00-0056	EA	1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	52.08		
		For Galvanized, Add	17.03		
		For Stainless Steel, Add	119.18		
		For >10 To 50, Deduct	-0.90		
		For >50 To 100, Deduct	-2.65		
		For >100, Deduct	-5.31		
03 15 19 00-0057	EA	1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	59.75		
		For Galvanized, Add	19.06		
		For Stainless Steel, Add	133.39		
		For >10 To 50, Deduct	-1.08		
		For >50 To 100, Deduct	-3.12		
		For >100, Deduct	-6.23		
03 15 19 00-0058	EA	1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	63.41		
		For Galvanized, Add	19.94		
		For Stainless Steel, Add	139.58		
		For >10 To 50, Deduct	-1.18		
		For >50 To 100, Deduct	-3.35		
		For >100, Deduct	-6.70		
03 15 19 00-0059	1-1/4" And 1-3/8" Diameter (03 15 19 00-0036)				
03 15 19 00-0060	EA	1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	62.82		
		For Galvanized, Add	20.59		
		For Stainless Steel, Add	144.13		
		For >10 To 50, Deduct	-1.08		
		For >50 To 100, Deduct	-3.19		
		For >100, Deduct	-6.39		
03 15 19 00-0061	EA	1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	75.25		
		For Galvanized, Add	24.10		
		For Stainless Steel, Add	168.67		
		For >10 To 50, Deduct	-1.35		
		For >50 To 100, Deduct	-3.91		
		For >100, Deduct	-7.82		
03 15 19 00-0062	EA	1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	83.06		
		For Galvanized, Add	27.29		
		For Stainless Steel, Add	191.03		
		For >10 To 50, Deduct	-1.42		
		For >50 To 100, Deduct	-4.21		
		For >100, Deduct	-8.43		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0063	EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	91.69		
	For Galvanized, Add	30.82		
	For Stainless Steel, Add	215.71		
	For >10 To 50, Deduct	-1.50		
	For >50 To 100, Deduct	-4.55		
	For >100, Deduct	-9.09		
03 15 19 00-0064	EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	100.85		
	For Galvanized, Add	33.52		
	For Stainless Steel, Add	234.61		
	For >10 To 50, Deduct	-1.69		
	For >50 To 100, Deduct	-5.06		
	For >100, Deduct	-10.12		
03 15 19 00-0065	EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	110.43		
	For Galvanized, Add	35.89		
	For Stainless Steel, Add	251.23		
	For >10 To 50, Deduct	-1.93		
	For >50 To 100, Deduct	-5.66		
	For >100, Deduct	-11.32		
03 15 19 00-0066	EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	121.93		
	For Galvanized, Add	38.42		
	For Stainless Steel, Add	268.94		
	For >10 To 50, Deduct	-2.25		
	For >50 To 100, Deduct	-6.43		
	For >100, Deduct	-12.86		
03 15 19 00-0067	EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	139.07		
	For Galvanized, Add	42.48		
	For Stainless Steel, Add	297.36		
	For >10 To 50, Deduct	-2.71		
	For >50 To 100, Deduct	-7.54		
	For >100, Deduct	-15.07		
03 15 19 00-0068	EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	73.12		
	For Galvanized, Add	25.74		
	For Stainless Steel, Add	180.18		
	For >10 To 50, Deduct	-1.08		
	For >50 To 100, Deduct	-3.45		
	For >100, Deduct	-6.90		
03 15 19 00-0069	EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	87.31		
	For Galvanized, Add	30.13		
	For Stainless Steel, Add	210.88		
	For >10 To 50, Deduct	-1.35		
	For >50 To 100, Deduct	-4.21		
	For >100, Deduct	-8.42		
03 15 19 00-0070	EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	96.70		
	For Galvanized, Add	34.11		
	For Stainless Steel, Add	238.77		
	For >10 To 50, Deduct	-1.42		
	For >50 To 100, Deduct	-4.55		
	For >100, Deduct	-9.11		
03 15 19 00-0071	EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	107.09		
	For Galvanized, Add	38.52		
	For Stainless Steel, Add	269.61		
	For >10 To 50, Deduct	-1.50		
	For >50 To 100, Deduct	-4.93		
	For >100, Deduct	-9.86		
03 15 19 00-0072	EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	117.63		
	For Galvanized, Add	41.91		
	For Stainless Steel, Add	293.34		
	For >10 To 50, Deduct	-1.69		
	For >50 To 100, Deduct	-5.48		
	For >100, Deduct	-10.95		
03 15 19 00-0073	EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	128.40		
	For Galvanized, Add	44.88		
	For Stainless Steel, Add	314.13		
	For >10 To 50, Deduct	-1.93		
	For >50 To 100, Deduct	-6.11		
	For >100, Deduct	-12.22		
03 15 19 00-0074	EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	141.93		
	For Galvanized, Add	48.42		
	For Stainless Steel, Add	338.94		
	For >10 To 50, Deduct	-2.25		
	For >50 To 100, Deduct	-6.93		
	For >100, Deduct	-13.86		
03 15 19 00-0075	EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	160.33		
	For Galvanized, Add	53.11		
	For Stainless Steel, Add	371.77		
	For >10 To 50, Deduct	-2.71		
	For >50 To 100, Deduct	-8.07		
	For >100, Deduct	-16.13		

03 15 19 00-0076 1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 15 19 00-0077	EA	1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	95.96	
		For Galvanized, Add	35.68	
		For Stainless Steel, Add	249.76	
		For >10 To 50, Deduct	-1.23	
		For >50 To 100, Deduct	-4.24	
		For >100, Deduct	-8.49	
03 15 19 00-0078	EA	1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.33	
		For Galvanized, Add	37.43	
		For Stainless Steel, Add	261.98	
		For >10 To 50, Deduct	-1.42	
		For >50 To 100, Deduct	-4.72	
		For >100, Deduct	-9.44	
03 15 19 00-0079	EA	1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	114.19	
		For Galvanized, Add	41.18	
		For Stainless Steel, Add	288.26	
		For >10 To 50, Deduct	-1.59	
		For >50 To 100, Deduct	-5.24	
		For >100, Deduct	-10.48	
03 15 19 00-0080	EA	1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	123.80	
		For Galvanized, Add	44.99	
		For Stainless Steel, Add	314.93	
		For >10 To 50, Deduct	-1.69	
		For >50 To 100, Deduct	-5.63	
		For >100, Deduct	-11.26	
03 15 19 00-0081	EA	1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	133.68	
		For Galvanized, Add	48.80	
		For Stainless Steel, Add	341.60	
		For >10 To 50, Deduct	-1.80	
		For >50 To 100, Deduct	-6.05	
		For >100, Deduct	-12.10	
03 15 19 00-0082	EA	1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.58	
		For Galvanized, Add	52.48	
		For Stainless Steel, Add	367.36	
		For >10 To 50, Deduct	-2.08	
		For >50 To 100, Deduct	-6.79	
		For >100, Deduct	-13.57	
03 15 19 00-0083	EA	1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	162.73	
		For Galvanized, Add	56.77	
		For Stainless Steel, Add	397.39	
		For >10 To 50, Deduct	-2.46	
		For >50 To 100, Deduct	-7.76	
		For >100, Deduct	-15.52	
03 15 19 00-0084	EA	1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	186.03	
		For Galvanized, Add	62.96	
		For Stainless Steel, Add	440.69	
		For >10 To 50, Deduct	-3.01	
		For >50 To 100, Deduct	-9.16	
		For >100, Deduct	-18.32	
03 15 19 00-0085	EA	1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	134.43	
		For Galvanized, Add	53.69	
		For Stainless Steel, Add	375.80	
		For >10 To 50, Deduct	-1.35	
		For >50 To 100, Deduct	-5.39	
		For >100, Deduct	-10.78	
03 15 19 00-0086	EA	1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	139.77	
		For Galvanized, Add	54.86	
		For Stainless Steel, Add	383.99	
		For >10 To 50, Deduct	-1.50	
		For >50 To 100, Deduct	-5.75	
		For >100, Deduct	-11.50	
03 15 19 00-0087	EA	1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	143.30	
		For Galvanized, Add	55.74	
		For Stainless Steel, Add	390.15	
		For >10 To 50, Deduct	-1.59	
		For >50 To 100, Deduct	-5.97	
		For >100, Deduct	-11.94	
03 15 19 00-0088	EA	1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	162.56	
		For Galvanized, Add	64.37	
		For Stainless Steel, Add	450.59	
		For >10 To 50, Deduct	-1.69	
		For >50 To 100, Deduct	-6.60	
		For >100, Deduct	-13.20	
03 15 19 00-0089	EA	1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	187.27	
		For Galvanized, Add	74.31	
		For Stainless Steel, Add	520.17	
		For >10 To 50, Deduct	-1.93	
		For >50 To 100, Deduct	-7.58	
		For >100, Deduct	-15.16	
03 15 19 00-0090	EA	1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	195.67	
		For Galvanized, Add	75.29	
		For Stainless Steel, Add	527.03	
		For >10 To 50, Deduct	-2.25	
		For >50 To 100, Deduct	-8.27	
		For >100, Deduct	-16.55	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0091	EA 1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	216.71		
	For Galvanized, Add	81.30		
	For Stainless Steel, Add	569.10		
	For >10 To 50, Deduct	-2.71		
	For >50 To 100, Deduct	-9.48		
	For >100, Deduct	-18.95		
03 15 19 00-0092	EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	242.76		
	For Galvanized, Add	87.57		
	For Stainless Steel, Add	612.96		
	For >10 To 50, Deduct	-3.38		
	For >50 To 100, Deduct	-11.14		
	For >100, Deduct	-22.28		
03 15 19 00-0093	EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	195.28		
	For Galvanized, Add	81.73		
	For Stainless Steel, Add	572.08		
	For >10 To 50, Deduct	-1.59		
	For >50 To 100, Deduct	-7.27		
	For >100, Deduct	-14.54		
03 15 19 00-0094	EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	212.78		
	For Galvanized, Add	88.35		
	For Stainless Steel, Add	618.45		
	For >10 To 50, Deduct	-1.80		
	For >50 To 100, Deduct	-8.03		
	For >100, Deduct	-16.05		
03 15 19 00-0095	EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	234.22		
	For Galvanized, Add	96.30		
	For Stainless Steel, Add	674.10		
	For >10 To 50, Deduct	-2.08		
	For >50 To 100, Deduct	-8.98		
	For >100, Deduct	-17.95		
03 15 19 00-0096	EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	253.16		
	For Galvanized, Add	101.99		
	For Stainless Steel, Add	713.90		
	For >10 To 50, Deduct	-2.46		
	For >50 To 100, Deduct	-10.02		
	For >100, Deduct	-20.04		
03 15 19 00-0097	EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	273.29		
	For Galvanized, Add	109.59		
	For Stainless Steel, Add	767.13		
	For >10 To 50, Deduct	-2.71		
	For >50 To 100, Deduct	-10.89		
	For >100, Deduct	-21.78		
03 15 19 00-0098	EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	294.16		
	For Galvanized, Add	117.02		
	For Stainless Steel, Add	819.14		
	For >10 To 50, Deduct	-3.01		
	For >50 To 100, Deduct	-11.86		
	For >100, Deduct	-23.73		
03 15 19 00-0099	EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	328.66		
	For Galvanized, Add	125.68		
	For Stainless Steel, Add	879.76		
	For >10 To 50, Deduct	-3.87		
	For >50 To 100, Deduct	-14.01		
	For >100, Deduct	-28.03		
03 15 19 00-0100	EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	353.63		
	For Galvanized, Add	138.17		
	For Stainless Steel, Add	967.16		
	For >10 To 50, Deduct	-3.87		
	For >50 To 100, Deduct	-14.64		
	For >100, Deduct	-29.28		
03 15 19 00-0101	EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	397.35		
	For Galvanized, Add	153.59		
	For Stainless Steel, Add	1,075.10		
	For >10 To 50, Deduct	-4.51		
	For >50 To 100, Deduct	-16.70		
	For >100, Deduct	-33.39		
03 15 19 00-0102 2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)				
03 15 19 00-0103	EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	394.96		
	For Galvanized, Add	181.57		
	For Stainless Steel, Add	1,270.96		
	For >10 To 50, Deduct	-1.59		
	For >50 To 100, Deduct	-12.26		
	For >100, Deduct	-24.52		
03 15 19 00-0104	EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	415.64		
	For Galvanized, Add	189.78		
	For Stainless Steel, Add	1,328.46		
	For >10 To 50, Deduct	-1.80		
	For >50 To 100, Deduct	-13.10		
	For >100, Deduct	-26.19		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	453.25	
			For Galvanized, Add	205.82	
			For Stainless Steel, Add	1,440.71	
			For >10 To 50, Deduct	-2.08	
			For >50 To 100, Deduct	-14.45	
			For >100, Deduct	-28.91	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	482.99	
			For Galvanized, Add	216.90	
			For Stainless Steel, Add	1,518.30	
			For >10 To 50, Deduct	-2.46	
			For >50 To 100, Deduct	-15.76	
			For >100, Deduct	-31.53	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	511.17	
			For Galvanized, Add	228.53	
			For Stainless Steel, Add	1,599.71	
			For >10 To 50, Deduct	-2.71	
			For >50 To 100, Deduct	-16.84	
			For >100, Deduct	-33.68	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	543.22	
			For Galvanized, Add	241.55	
			For Stainless Steel, Add	1,690.85	
			For >10 To 50, Deduct	-3.01	
			For >50 To 100, Deduct	-18.09	
			For >100, Deduct	-36.18	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	587.06	
			For Galvanized, Add	254.88	
			For Stainless Steel, Add	1,784.16	
			For >10 To 50, Deduct	-3.87	
			For >50 To 100, Deduct	-20.47	
			For >100, Deduct	-40.95	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	444.91	
			For Galvanized, Add	205.55	
			For Stainless Steel, Add	1,438.82	
			For >10 To 50, Deduct	-1.69	
			For >50 To 100, Deduct	-13.66	
			For >100, Deduct	-27.32	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	478.39	
			For Galvanized, Add	219.87	
			For Stainless Steel, Add	1,539.09	
			For >10 To 50, Deduct	-1.93	
			For >50 To 100, Deduct	-14.86	
			For >100, Deduct	-29.72	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	513.75	
			For Galvanized, Add	234.33	
			For Stainless Steel, Add	1,640.31	
			For >10 To 50, Deduct	-2.25	
			For >50 To 100, Deduct	-16.23	
			For >100, Deduct	-32.45	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	548.82	
			For Galvanized, Add	247.36	
			For Stainless Steel, Add	1,731.49	
			For >10 To 50, Deduct	-2.71	
			For >50 To 100, Deduct	-17.78	
			For >100, Deduct	-35.56	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	583.29	
			For Galvanized, Add	261.59	
			For Stainless Steel, Add	1,831.10	
			For >10 To 50, Deduct	-3.01	
			For >50 To 100, Deduct	-19.09	
			For >100, Deduct	-38.18	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	631.21	
			For Galvanized, Add	281.79	
			For Stainless Steel, Add	1,972.53	
			For >10 To 50, Deduct	-3.38	
			For >50 To 100, Deduct	-20.85	
			For >100, Deduct	-41.71	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	684.75	
			For Galvanized, Add	297.29	
			For Stainless Steel, Add	2,081.00	
			For >10 To 50, Deduct	-4.51	
			For >50 To 100, Deduct	-23.88	
			For >100, Deduct	-47.76	

03 20 Concrete Reinforcing ⁽⁰³⁾

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

03 21 Reinforcement Bars ^(03 20)

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

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

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



	Concrete	03	CS
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002	LF	#3, Grade 40, Beams And Girders, Steel Reinforcement Bar	.....	0.83	
		For Up To 100, Add		0.57	
		For >100 To 200, Add		0.31	
		For >200 To 500, Add		0.12	
03 21 11 00-0003	LF	#4, Grade 40, Beams And Girders, Steel Reinforcement Bar	.....	1.41	
		For Up To 100, Add		0.99	
		For >100 To 200, Add		0.53	
		For >200 To 500, Add		0.21	
03 21 11 00-0004	LF	#5, Grade 40, Beams And Girders, Steel Reinforcement Bar	.....	2.13	
		For Up To 100, Add		1.52	
		For >100 To 200, Add		0.81	
		For >200 To 500, Add		0.32	
03 21 11 00-0005	LF	#6, Grade 40, Beams And Girders, Steel Reinforcement Bar	.....	2.94	
		For Up To 100, Add		2.14	
		For >100 To 200, Add		1.14	
		For >200 To 500, Add		0.45	
03 21 11 00-0006	LF	#3, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	0.85	
		For Up To 100, Add		0.59	
		For >100 To 200, Add		0.32	
		For >200 To 500, Add		0.13	
03 21 11 00-0007	LF	#4, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	1.45	
		For Up To 100, Add		1.03	
		For >100 To 200, Add		0.55	
		For >200 To 500, Add		0.22	
03 21 11 00-0008	LF	#5, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	2.18	
		For Up To 100, Add		1.57	
		For >100 To 200, Add		0.84	
		For >200 To 500, Add		0.33	
03 21 11 00-0009	LF	#6, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	3.02	
		For Up To 100, Add		2.22	
		For >100 To 200, Add		1.18	
		For >200 To 500, Add		0.47	
03 21 11 00-0010	LF	#3, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	0.88	
		For Up To 100, Add		0.62	
		For >100 To 200, Add		0.33	
		For >200 To 500, Add		0.13	
03 21 11 00-0011	LF	#4, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	1.50	
		For Up To 100, Add		1.08	
		For >100 To 200, Add		0.58	
		For >200 To 500, Add		0.23	
03 21 11 00-0012	LF	#5, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	2.27	
		For Up To 100, Add		1.66	
		For >100 To 200, Add		0.88	
		For >200 To 500, Add		0.35	
03 21 11 00-0013	LF	#6, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	3.14	
		For Up To 100, Add		2.34	
		For >100 To 200, Add		1.24	
		For >200 To 500, Add		0.49	
03 21 11 00-0014	LF	#7, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	4.08	
		For Up To 100, Add		2.40	
		For >100 To 200, Add		1.39	
		For >200 To 400, Add		0.65	
03 21 11 00-0015	LF	#8, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	5.12	
		For Up To 100, Add		3.07	
		For >100 To 200, Add		1.76	
		For >200 To 400, Add		0.83	
03 21 11 00-0016	LF	#9, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	6.34	
		For Up To 100, Add		3.85	
		For >100 To 200, Add		2.20	
		For >200 To 400, Add		1.04	
03 21 11 00-0017	LF	#10, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	7.79	
		For Up To 100, Add		3.88	
		For >100 To 200, Add		2.07	
		For >200 To 300, Add		1.04	
03 21 11 00-0018	LF	#11, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	9.31	
		For Up To 100, Add		4.70	
		For >100 To 200, Add		2.50	
		For >200 To 300, Add		1.25	
03 21 11 00-0019	LF	#14, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	12.98	
		For Up To 100, Add		6.64	
		For >100 To 200, Add		3.51	
		For >200 To 300, Add		1.76	
03 21 11 00-0020	LF	#18, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	22.31	
		For Up To 100, Add		11.57	
		For >100 To 200, Add		6.09	
		For >200 To 300, Add		3.04	
03 21 11 00-0021	LF	#6, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	3.26	
		For Up To 100, Add		2.46	
		For >100 To 200, Add		1.30	
		For >200 To 500, Add		0.52	
03 21 11 00-0022	LF	#7, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	4.25	
		For Up To 100, Add		2.53	
		For >100 To 200, Add		1.45	
		For >200 To 400, Add		0.69	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	5.34	
		For Up To 100, Add	.....	3.23	
		For >100 To 200, Add	.....	1.85	
		For >200 To 400, Add	.....	0.88	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	6.61	
		For Up To 100, Add	.....	4.05	
		For >100 To 200, Add	.....	2.30	
		For >200 To 400, Add	.....	1.10	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	8.13	
		For Up To 100, Add	.....	4.09	
		For >100 To 200, Add	.....	2.18	
		For >200 To 300, Add	.....	1.09	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	9.74	
		For Up To 100, Add	.....	4.96	
		For >100 To 200, Add	.....	2.63	
		For >200 To 300, Add	.....	1.31	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	13.59	
		For Up To 100, Add	.....	7.01	
		For >100 To 200, Add	.....	3.69	
		For >200 To 300, Add	.....	1.85	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	23.39	
		For Up To 100, Add	.....	12.22	
		For >100 To 200, Add	.....	6.41	
		For >200 To 300, Add	.....	3.21	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	0.90	
		For Up To 100, Add	.....	0.64	
		For >100 To 200, Add	.....	0.34	
		For >200 To 500, Add	.....	0.14	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.54	
		For Up To 100, Add	.....	1.12	
		For >100 To 200, Add	.....	0.60	
		For >200 To 500, Add	.....	0.24	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	2.33	
		For Up To 100, Add	.....	1.72	
		For >100 To 200, Add	.....	0.91	
		For >200 To 500, Add	.....	0.36	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	3.23	
		For Up To 100, Add	.....	2.43	
		For >100 To 200, Add	.....	1.28	
		For >200 To 500, Add	.....	0.51	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	4.21	
		For Up To 100, Add	.....	2.50	
		For >100 To 200, Add	.....	1.44	
		For >200 To 400, Add	.....	0.68	
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	5.28	
		For Up To 100, Add	.....	3.19	
		For >100 To 200, Add	.....	1.82	
		For >200 To 400, Add	.....	0.86	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	6.54	
		For Up To 100, Add	.....	4.00	
		For >100 To 200, Add	.....	2.28	
		For >200 To 400, Add	.....	1.08	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	8.04	
		For Up To 100, Add	.....	4.03	
		For >100 To 200, Add	.....	2.15	
		For >200 To 300, Add	.....	1.07	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	9.63	
		For Up To 100, Add	.....	4.89	
		For >100 To 200, Add	.....	2.59	
		For >200 To 300, Add	.....	1.30	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	13.43	
		For Up To 100, Add	.....	6.91	
		For >100 To 200, Add	.....	3.65	
		For >200 To 300, Add	.....	1.82	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	23.12	
		For Up To 100, Add	.....	12.06	
		For >100 To 200, Add	.....	6.33	
		For >200 To 300, Add	.....	3.17	
03 21 11 00-0040	Columns, Steel Reinforcement Bar (03 21 11)				
	Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.				
03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	.....	0.86	
		For Up To 100, Add	.....	0.58	
		For >100 To 200, Add	.....	0.32	
		For >200 To 500, Add	.....	0.13	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	.....	1.49	
		For Up To 100, Add	.....	1.02	
		For >100 To 200, Add	.....	0.55	
		For >200 To 500, Add	.....	0.22	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	.....	2.22	
		For Up To 100, Add	.....	1.55	
		For >100 To 200, Add	.....	0.83	
		For >200 To 500, Add	.....	0.33	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 11 00-0044	LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	3.07		
	For Up To 100, Add	2.19		
	For >100 To 200, Add	1.17		
	For >200 To 500, Add	0.47		
03 21 11 00-0045	LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.88		
	For Up To 100, Add	0.60		
	For >100 To 200, Add	0.33		
	For >200 To 500, Add	0.13		
03 21 11 00-0046	LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	1.53		
	For Up To 100, Add	1.06		
	For >100 To 200, Add	0.57		
	For >200 To 500, Add	0.23		
03 21 11 00-0047	LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	2.27		
	For Up To 100, Add	1.60		
	For >100 To 200, Add	0.86		
	For >200 To 500, Add	0.34		
03 21 11 00-0048	LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	3.15		
	For Up To 100, Add	2.27		
	For >100 To 200, Add	1.21		
	For >200 To 500, Add	0.48		
03 21 11 00-0049	LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.91		
	For Up To 100, Add	0.63		
	For >100 To 200, Add	0.34		
	For >200 To 500, Add	0.14		
03 21 11 00-0050	LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.58		
	For Up To 100, Add	1.11		
	For >100 To 200, Add	0.60		
	For >200 To 500, Add	0.24		
03 21 11 00-0051	LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	2.36		
	For Up To 100, Add	1.69		
	For >100 To 200, Add	0.90		
	For >200 To 500, Add	0.36		
03 21 11 00-0052	LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	3.27		
	For Up To 100, Add	2.39		
	For >100 To 200, Add	1.27		
	For >200 To 500, Add	0.51		
03 21 11 00-0053	LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	4.25		
	For Up To 100, Add	2.46		
	For >100 To 200, Add	1.43		
	For >200 To 400, Add	0.67		
03 21 11 00-0054	LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	5.31		
	For Up To 100, Add	3.13		
	For >100 To 200, Add	1.81		
	For >200 To 400, Add	0.85		
03 21 11 00-0055	LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	6.56		
	For Up To 100, Add	3.92		
	For >100 To 200, Add	2.25		
	For >200 To 400, Add	1.06		
03 21 11 00-0056	LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	8.04		
	For Up To 100, Add	3.96		
	For >100 To 200, Add	2.12		
	For >200 To 300, Add	1.06		
03 21 11 00-0057	LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	9.60		
	For Up To 100, Add	4.79		
	For >100 To 200, Add	2.56		
	For >200 To 300, Add	1.28		
03 21 11 00-0058	LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	13.37		
	For Up To 100, Add	6.76		
	For >100 To 200, Add	3.59		
	For >200 To 300, Add	1.79		
03 21 11 00-0059	LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	22.91		
	For Up To 100, Add	11.75		
	For >100 To 200, Add	6.21		
	For >200 To 300, Add	3.10		
03 21 11 00-0060	LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	3.39		
	For Up To 100, Add	2.51		
	For >100 To 200, Add	1.33		
	For >200 To 500, Add	0.53		
03 21 11 00-0061	LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	4.42		
	For Up To 100, Add	2.59		
	For >100 To 200, Add	1.50		
	For >200 To 400, Add	0.70		
03 21 11 00-0062	LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	5.53		
	For Up To 100, Add	3.30		
	For >100 To 200, Add	1.89		
	For >200 To 400, Add	0.89		
03 21 11 00-0063	LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	6.83		
	For Up To 100, Add	4.13		
	For >100 To 200, Add	2.36		
	For >200 To 400, Add	1.12		
03 21 11 00-0064	LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	8.38		
	For Up To 100, Add	4.16		
	For >100 To 200, Add	2.23		
	For >200 To 300, Add	1.11		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar	10.03	
			For Up To 100, Add	5.04	
			For >100 To 200, Add	2.68	
			For >200 To 300, Add	1.34	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar	13.98	
			For Up To 100, Add	7.12	
			For >100 To 200, Add	3.77	
			For >200 To 300, Add	1.89	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar	23.99	
			For Up To 100, Add	12.40	
			For >100 To 200, Add	6.53	
			For >200 To 300, Add	3.27	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.93	
			For Up To 100, Add	0.65	
			For >100 To 200, Add	0.35	
			For >200 To 500, Add	0.14	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.62	
			For Up To 100, Add	1.15	
			For >100 To 200, Add	0.62	
			For >200 To 500, Add	0.25	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.42	
			For Up To 100, Add	1.75	
			For >100 To 200, Add	0.93	
			For >200 To 500, Add	0.37	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.36	
			For Up To 100, Add	2.48	
			For >100 To 200, Add	1.31	
			For >200 To 500, Add	0.53	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	4.38	
			For Up To 100, Add	2.56	
			For >100 To 200, Add	1.48	
			For >200 To 400, Add	0.70	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	5.47	
			For Up To 100, Add	3.25	
			For >100 To 200, Add	1.87	
			For >200 To 400, Add	0.88	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	6.76	
			For Up To 100, Add	4.07	
			For >100 To 200, Add	2.33	
			For >200 To 400, Add	1.10	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	8.29	
			For Up To 100, Add	4.11	
			For >100 To 200, Add	2.20	
			For >200 To 300, Add	1.10	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	9.92	
			For Up To 100, Add	4.98	
			For >100 To 200, Add	2.65	
			For >200 To 300, Add	1.33	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	13.82	
			For Up To 100, Add	7.03	
			For >100 To 200, Add	3.72	
			For >200 To 300, Add	1.86	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	23.72	
			For Up To 100, Add	12.24	
			For >100 To 200, Add	6.45	
			For >200 To 300, Add	3.23	
03 21 11 00-0079			Footings, Steel Reinforcement Bar (03 21 11) Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0080	LF		#3, Grade 40, Footings, Steel Reinforcement Bar	0.76	
			For Up To 100, Add	0.54	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.12	
03 21 11 00-0081	LF		#4, Grade 40, Footings, Steel Reinforcement Bar	1.31	
			For Up To 100, Add	0.95	
			For >100 To 200, Add	0.51	
			For >200 To 500, Add	0.20	
03 21 11 00-0082	LF		#5, Grade 40, Footings, Steel Reinforcement Bar	1.98	
			For Up To 100, Add	1.46	
			For >100 To 200, Add	0.77	
			For >200 To 500, Add	0.31	
03 21 11 00-0083	LF		#6, Grade 40, Footings, Steel Reinforcement Bar	2.74	
			For Up To 100, Add	2.06	
			For >100 To 200, Add	1.09	
			For >200 To 500, Add	0.43	
03 21 11 00-0084	LF		#3, Grade 50, Footings, Steel Reinforcement Bar	0.78	
			For Up To 100, Add	0.56	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21 11 00-0085	LF		#4, Grade 50, Footings, Steel Reinforcement Bar	1.35	
			For Up To 100, Add	0.99	
			For >100 To 200, Add	0.53	
			For >200 To 500, Add	0.21	



	Concrete	03	CS
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	.....	2.03	
		For Up To 100, Add		1.51	
		For >100 To 200, Add		0.80	
		For >200 To 500, Add		0.32	
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	.....	2.82	
		For Up To 100, Add		2.14	
		For >100 To 200, Add		1.13	
		For >200 To 500, Add		0.45	
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	.....	0.81	
		For Up To 100, Add		0.59	
		For >100 To 200, Add		0.32	
		For >200 To 500, Add		0.13	
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	.....	1.40	
		For Up To 100, Add		1.04	
		For >100 To 200, Add		0.55	
		For >200 To 500, Add		0.22	
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	.....	2.12	
		For Up To 100, Add		1.60	
		For >100 To 200, Add		0.84	
		For >200 To 500, Add		0.34	
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	.....	2.94	
		For Up To 100, Add		2.26	
		For >100 To 200, Add		1.19	
		For >200 To 500, Add		0.47	
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	.....	3.84	
		For Up To 100, Add		2.32	
		For >100 To 200, Add		1.33	
		For >200 To 400, Add		0.63	
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	.....	4.83	
		For Up To 100, Add		2.97	
		For >100 To 200, Add		1.69	
		For >200 To 400, Add		0.80	
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	.....	5.99	
		For Up To 100, Add		3.72	
		For >100 To 200, Add		2.11	
		For >200 To 400, Add		1.01	
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	.....	7.38	
		For Up To 100, Add		4.64	
		For >100 To 200, Add		2.62	
		For >200 To 400, Add		1.25	
		For Up To 100, Add		3.76	
		For >100 To 200, Add		1.99	
		For >200 To 300, Add		1.00	
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	.....	8.87	
		For Up To 100, Add		5.64	
		For >100 To 200, Add		3.17	
		For >200 To 400, Add		1.52	
		For Up To 100, Add		4.57	
		For >100 To 200, Add		2.41	
		For >200 To 300, Add		1.20	
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	.....	12.41	
		For Up To 100, Add		8.00	
		For >100 To 200, Add		4.48	
		For >200 To 400, Add		2.16	
		For Up To 100, Add		6.47	
		For >100 To 200, Add		3.40	
		For >200 To 300, Add		1.70	
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	.....	21.39	
		For Up To 100, Add		13.99	
		For >100 To 200, Add		7.79	
		For >200 To 400, Add		3.77	
		For Up To 100, Add		11.30	
		For >100 To 200, Add		5.90	
		For >200 To 300, Add		2.95	
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	.....	3.06	
		For Up To 100, Add		2.38	
		For >100 To 200, Add		1.25	
		For >200 To 500, Add		0.50	
		For Up To 100, Add		1.84	
		For >100 To 200, Add		1.05	
		For >200 To 400, Add		0.50	
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	.....	4.01	
		For Up To 100, Add		2.45	
		For >100 To 200, Add		1.39	
		For >200 To 400, Add		0.66	
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	.....	5.05	
		For Up To 100, Add		3.13	
		For >100 To 200, Add		1.77	
		For >200 To 400, Add		0.85	
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	.....	6.26	
		For Up To 100, Add		3.93	
		For >100 To 200, Add		2.22	
		For >200 To 400, Add		1.06	
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	.....	7.72	
		For Up To 100, Add		3.96	
		For >100 To 200, Add		2.09	
		For >200 To 300, Add		1.05	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0104	LF		#11, Grade 75, Footings, Steel Reinforcement Bar	9.30	
			For Up To 100, Add	4.82	
			For >100 To 200, Add	2.54	
			For >200 To 300, Add	1.27	
03 21 11 00-0105	LF		#14, Grade 75, Footings, Steel Reinforcement Bar	13.02	
			For Up To 100, Add	6.83	
			For >100 To 200, Add	3.58	
			For >200 To 300, Add	1.79	
03 21 11 00-0106	LF		#18, Grade 75, Footings, Steel Reinforcement Bar	22.47	
			For Up To 100, Add	11.94	
			For >100 To 200, Add	6.23	
			For >200 To 300, Add	3.11	
03 21 11 00-0107	LF		#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.83	
			For Up To 100, Add	0.61	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	
03 21 11 00-0108	LF		#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.44	
			For Up To 100, Add	1.08	
			For >100 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
03 21 11 00-0109	LF		#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.18	
			For Up To 100, Add	1.66	
			For >100 To 200, Add	0.87	
			For >200 To 500, Add	0.35	
03 21 11 00-0110	LF		#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.03	
			For Up To 100, Add	2.35	
			For >100 To 200, Add	1.23	
			For >200 To 500, Add	0.49	
03 21 11 00-0111	LF		#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.97	
			For Up To 100, Add	2.42	
			For >100 To 200, Add	1.38	
			For >200 To 400, Add	0.65	
03 21 11 00-0112	LF		#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.99	
			For Up To 100, Add	3.09	
			For >100 To 200, Add	1.75	
			For >200 To 400, Add	0.83	
03 21 11 00-0113	LF		#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.19	
			For Up To 100, Add	3.87	
			For >100 To 200, Add	2.19	
			For >200 To 400, Add	1.05	
03 21 11 00-0114	LF		#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	7.63	
			For Up To 100, Add	3.91	
			For >100 To 200, Add	2.07	
			For >200 To 300, Add	1.03	
03 21 11 00-0115	LF		#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	9.19	
			For Up To 100, Add	4.76	
			For >100 To 200, Add	2.51	
			For >200 To 300, Add	1.25	
03 21 11 00-0116	LF		#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	12.86	
			For Up To 100, Add	6.74	
			For >100 To 200, Add	3.53	
			For >200 To 300, Add	1.77	
03 21 11 00-0117	LF		#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	22.20	
			For Up To 100, Add	11.78	
			For >100 To 200, Add	6.15	
			For >200 To 300, Add	3.07	
03 21 11 00-0118			Slab On Grade, Steel Reinforcement Bar (03 21 11)		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0119	LF		#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.74	
			For Up To 100, Add	0.54	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.11	
03 21 11 00-0120	LF		#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.27	
			For Up To 100, Add	0.93	
			For >100 To 200, Add	0.50	
			For >200 To 500, Add	0.20	
03 21 11 00-0121	LF		#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.93	
			For Up To 100, Add	1.44	
			For >100 To 200, Add	0.76	
			For >200 To 500, Add	0.30	
03 21 11 00-0122	LF		#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	2.67	
			For Up To 100, Add	2.03	
			For >100 To 200, Add	1.07	
			For >200 To 500, Add	0.43	
03 21 11 00-0123	LF		#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.76	
			For Up To 100, Add	0.56	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21 11 00-0124	LF		#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.31	
			For Up To 100, Add	0.97	
			For >100 To 200, Add	0.52	
			For >200 To 500, Add	0.21	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 11 00-0125	LF #5, Grade 50, Slab On Grade, Steel Reinforcement Bar		1.98	
	For Up To 100, Add	1.49		
	For >100 To 200, Add	0.79		
	For >200 To 500, Add	0.31		
03 21 11 00-0126	LF #6, Grade 50, Slab On Grade, Steel Reinforcement Bar		2.75	
	For Up To 100, Add	2.11		
	For >100 To 200, Add	1.11		
	For >200 To 500, Add	0.44		
03 21 11 00-0127	LF #3, Grade 60, Slab On Grade, Steel Reinforcement Bar		0.79	
	For Up To 100, Add	0.59		
	For >100 To 200, Add	0.31		
	For >200 To 500, Add	0.12		
03 21 11 00-0128	LF #4, Grade 60, Slab On Grade, Steel Reinforcement Bar		1.36	
	For Up To 100, Add	1.02		
	For >100 To 200, Add	0.54		
	For >200 To 500, Add	0.22		
03 21 11 00-0129	LF #5, Grade 60, Slab On Grade, Steel Reinforcement Bar		2.07	
	For Up To 100, Add	1.58		
	For >100 To 200, Add	0.83		
	For >200 To 500, Add	0.33		
03 21 11 00-0130	LF #6, Grade 60, Slab On Grade, Steel Reinforcement Bar		2.87	
	For Up To 100, Add	2.23		
	For >100 To 200, Add	1.17		
	For >200 To 500, Add	0.47		
03 21 11 00-0131	LF #7, Grade 60, Slab On Grade, Steel Reinforcement Bar		3.76	
	For Up To 100, Add	2.29		
	For >100 To 200, Add	1.31		
	For >200 To 400, Add	0.62		
03 21 11 00-0132	LF #8, Grade 60, Slab On Grade, Steel Reinforcement Bar		4.74	
	For Up To 100, Add	2.94		
	For >100 To 200, Add	1.66		
	For >200 To 400, Add	0.79		
03 21 11 00-0133	LF #9, Grade 60, Slab On Grade, Steel Reinforcement Bar		5.88	
	For Up To 100, Add	3.69		
	For >100 To 200, Add	2.08		
	For >200 To 400, Add	1.00		
03 21 11 00-0134	LF #10, Grade 60, Slab On Grade, Steel Reinforcement Bar		7.25	
	For Up To 100, Add	3.72		
	For >100 To 200, Add	1.97		
	For >200 To 300, Add	0.98		
03 21 11 00-0135	LF #11, Grade 60, Slab On Grade, Steel Reinforcement Bar		8.72	
	For Up To 100, Add	4.52		
	For >100 To 200, Add	2.38		
	For >200 To 300, Add	1.19		
03 21 11 00-0136	LF #14, Grade 60, Slab On Grade, Steel Reinforcement Bar		12.21	
	For Up To 100, Add	6.41		
	For >100 To 200, Add	3.36		
	For >200 To 300, Add	1.68		
03 21 11 00-0137	LF #18, Grade 60, Slab On Grade, Steel Reinforcement Bar		21.10	
	For Up To 100, Add	11.21		
	For >100 To 200, Add	5.85		
	For >200 To 300, Add	2.92		
03 21 11 00-0138	LF #6, Grade 75, Slab On Grade, Steel Reinforcement Bar		2.99	
	For Up To 100, Add	2.35		
	For >100 To 200, Add	1.23		
	For >200 To 500, Add	0.49		
03 21 11 00-0139	LF #7, Grade 75, Slab On Grade, Steel Reinforcement Bar		3.93	
	For Up To 100, Add	2.42		
	For >100 To 200, Add	1.37		
	For >200 To 400, Add	0.65		
03 21 11 00-0140	LF #8, Grade 75, Slab On Grade, Steel Reinforcement Bar		4.96	
	For Up To 100, Add	3.10		
	For >100 To 200, Add	1.75		
	For >200 To 400, Add	0.84		
03 21 11 00-0141	LF #9, Grade 75, Slab On Grade, Steel Reinforcement Bar		6.15	
	For Up To 100, Add	3.89		
	For >100 To 200, Add	2.19		
	For >200 To 400, Add	1.05		
03 21 11 00-0142	LF #10, Grade 75, Slab On Grade, Steel Reinforcement Bar		7.59	
	For Up To 100, Add	3.92		
	For >100 To 200, Add	2.07		
	For >200 To 300, Add	1.03		
03 21 11 00-0143	LF #11, Grade 75, Slab On Grade, Steel Reinforcement Bar		9.15	
	For Up To 100, Add	4.78		
	For >100 To 200, Add	2.51		
	For >200 To 300, Add	1.25		
03 21 11 00-0144	LF #14, Grade 75, Slab On Grade, Steel Reinforcement Bar		12.82	
	For Up To 100, Add	6.77		
	For >100 To 200, Add	3.54		
	For >200 To 300, Add	1.77		
03 21 11 00-0145	LF #18, Grade 75, Slab On Grade, Steel Reinforcement Bar		22.18	
	For Up To 100, Add	11.86		
	For >100 To 200, Add	6.17		
	For >200 To 300, Add	3.09		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	0.81	
		For Up To 100, Add		0.61	
		For >100 To 200, Add		0.32	
		For >200 To 500, Add		0.13	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.40	
		For Up To 100, Add		1.06	
		For >100 To 200, Add		0.56	
		For >200 To 500, Add		0.22	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.13	
		For Up To 100, Add		1.64	
		For >100 To 200, Add		0.86	
		For >200 To 500, Add		0.34	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.96	
		For Up To 100, Add		2.32	
		For >100 To 200, Add		1.21	
		For >200 To 500, Add		0.49	
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	3.89	
		For Up To 100, Add		2.39	
		For >100 To 200, Add		1.36	
		For >200 To 400, Add		0.65	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	4.90	
		For Up To 100, Add		3.06	
		For >100 To 200, Add		1.73	
		For >200 To 400, Add		0.83	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	6.08	
		For Up To 100, Add		3.84	
		For >100 To 200, Add		2.16	
		For >200 To 400, Add		1.04	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	7.50	
		For Up To 100, Add		3.87	
		For >100 To 200, Add		2.04	
		For >200 To 300, Add		1.02	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	9.04	
		For Up To 100, Add		4.71	
		For >100 To 200, Add		2.48	
		For >200 To 300, Add		1.24	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	12.66	
		For Up To 100, Add		6.68	
		For >100 To 200, Add		3.49	
		For >200 To 300, Add		1.75	
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	21.91	
		For Up To 100, Add		11.69	
		For >100 To 200, Add		6.09	
		For >200 To 300, Add		3.04	
03 21 11 00-0157		Elevated Slabs, Steel Reinforcement Bar (03 21 11)			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.70	
		For Up To 100, Add		0.52	
		For >100 To 200, Add		0.28	
		For >200 To 500, Add		0.11	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.20	
		For Up To 100, Add		0.91	
		For >100 To 200, Add		0.48	
		For >200 To 500, Add		0.19	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.82	
		For Up To 100, Add		1.39	
		For >100 To 200, Add		0.73	
		For >200 To 500, Add		0.29	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	2.54	
		For Up To 100, Add		1.98	
		For >100 To 200, Add		1.04	
		For >200 To 500, Add		0.41	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.72	
		For Up To 100, Add		0.54	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.11	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	1.24	
		For Up To 100, Add		0.95	
		For >100 To 200, Add		0.50	
		For >200 To 500, Add		0.20	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	1.87	
		For Up To 100, Add		1.44	
		For >100 To 200, Add		0.76	
		For >200 To 500, Add		0.30	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	2.62	
		For Up To 100, Add		2.06	
		For >100 To 200, Add		1.08	
		For >200 To 500, Add		0.43	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	0.75	
		For Up To 100, Add		0.57	
		For >100 To 200, Add		0.30	
		For >200 To 500, Add		0.12	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 11 00-0167	LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.29		
	For Up To 100, Add	1.00		
	For >100 To 200, Add	0.52		
	For >200 To 500, Add	0.21		
03 21 11 00-0168	LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.96		
	For Up To 100, Add	1.53		
	For >100 To 200, Add	0.80		
	For >200 To 500, Add	0.32		
03 21 11 00-0169	LF #6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.74		
	For Up To 100, Add	2.18		
	For >100 To 200, Add	1.14		
	For >200 To 500, Add	0.45		
03 21 11 00-0170	LF #7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.60		
	For Up To 100, Add	2.24		
	For >100 To 200, Add	1.27		
	For >200 To 400, Add	0.60		
03 21 11 00-0171	LF #8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.54		
	For Up To 100, Add	2.87		
	For >100 To 200, Add	1.61		
	For >200 To 400, Add	0.77		
03 21 11 00-0172	LF #9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	5.66		
	For Up To 100, Add	3.61		
	For >100 To 200, Add	2.03		
	For >200 To 400, Add	0.97		
03 21 11 00-0173	LF #10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.99		
	For Up To 100, Add	3.64		
	For >100 To 200, Add	1.91		
	For >200 To 300, Add	0.96		
03 21 11 00-0174	LF #11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	8.41		
	For Up To 100, Add	4.43		
	For >100 To 200, Add	2.32		
	For >200 To 300, Add	1.16		
03 21 11 00-0175	LF #14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	11.83		
	For Up To 100, Add	6.29		
	For >100 To 200, Add	3.28		
	For >200 To 300, Add	1.64		
03 21 11 00-0176	LF #18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	20.50		
	For Up To 100, Add	11.03		
	For >100 To 200, Add	5.73		
	For >200 To 300, Add	2.86		
03 21 11 00-0177	LF #6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.86		
	For Up To 100, Add	2.30		
	For >100 To 200, Add	1.20		
	For >200 To 500, Add	0.48		
03 21 11 00-0178	LF #7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.77		
	For Up To 100, Add	2.36		
	For >100 To 200, Add	1.33		
	For >200 To 400, Add	0.64		
03 21 11 00-0179	LF #8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.76		
	For Up To 100, Add	3.03		
	For >100 To 200, Add	1.70		
	For >200 To 400, Add	0.82		
03 21 11 00-0180	LF #9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.93		
	For Up To 100, Add	3.81		
	For >100 To 200, Add	2.13		
	For >200 To 400, Add	1.03		
03 21 11 00-0181	LF #10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	7.33		
	For Up To 100, Add	3.85		
	For >100 To 200, Add	2.02		
	For >200 To 300, Add	1.01		
03 21 11 00-0182	LF #11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	8.84		
	For Up To 100, Add	4.69		
	For >100 To 200, Add	2.45		
	For >200 To 300, Add	1.22		
03 21 11 00-0183	LF #14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	12.44		
	For Up To 100, Add	6.66		
	For >100 To 200, Add	3.46		
	For >200 To 300, Add	1.73		
03 21 11 00-0184	LF #18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	21.58		
	For Up To 100, Add	11.68		
	For >100 To 200, Add	6.05		
	For >200 To 300, Add	3.03		
03 21 11 00-0185	LF #3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.77		
	For Up To 100, Add	0.59		
	For >100 To 200, Add	0.31		
	For >200 To 500, Add	0.12		
03 21 11 00-0186	LF #4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.33		
	For Up To 100, Add	1.04		
	For >100 To 200, Add	0.54		
	For >200 To 500, Add	0.22		
03 21 11 00-0187	LF #5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.02		
	For Up To 100, Add	1.59		
	For >100 To 200, Add	0.83		
	For >200 To 500, Add	0.33		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.83	
		For Up To 100, Add	.....	2.27	
		For >100 To 200, Add	.....	1.18	
		For >200 To 500, Add	.....	0.47	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	3.73	
		For Up To 100, Add	.....	2.33	
		For >100 To 200, Add	.....	1.32	
		For >200 To 400, Add	.....	0.63	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	4.70	
		For Up To 100, Add	.....	2.99	
		For >100 To 200, Add	.....	1.68	
		For >200 To 400, Add	.....	0.81	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	5.86	
		For Up To 100, Add	.....	3.76	
		For >100 To 200, Add	.....	2.11	
		For >200 To 400, Add	.....	1.01	
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	7.24	
		For Up To 100, Add	.....	3.79	
		For >100 To 200, Add	.....	1.99	
		For >200 To 300, Add	.....	0.99	
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	8.73	
		For Up To 100, Add	.....	4.62	
		For >100 To 200, Add	.....	2.41	
		For >200 To 300, Add	.....	1.21	
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	12.28	
		For Up To 100, Add	.....	6.56	
		For >100 To 200, Add	.....	3.42	
		For >200 To 300, Add	.....	1.71	
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	21.31	
		For Up To 100, Add	.....	11.51	
		For >100 To 200, Add	.....	5.97	
		For >200 To 300, Add	.....	2.98	
03 21 11 00-0196		Walls, Steel Reinforcement Bar (03 21 11)			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	.....	0.68	
		For Up To 100, Add	.....	0.51	
		For >100 To 200, Add	.....	0.27	
		For >200 To 500, Add	.....	0.11	
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	.....	1.16	
		For Up To 100, Add	.....	0.89	
		For >100 To 200, Add	.....	0.47	
		For >200 To 500, Add	.....	0.19	
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	.....	1.76	
		For Up To 100, Add	.....	1.37	
		For >100 To 200, Add	.....	0.72	
		For >200 To 500, Add	.....	0.29	
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	.....	2.47	
		For Up To 100, Add	.....	1.95	
		For >100 To 200, Add	.....	1.02	
		For >200 To 500, Add	.....	0.41	
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	.....	0.70	
		For Up To 100, Add	.....	0.53	
		For >100 To 200, Add	.....	0.28	
		For >200 To 500, Add	.....	0.11	
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	.....	1.20	
		For Up To 100, Add	.....	0.93	
		For >100 To 200, Add	.....	0.49	
		For >200 To 500, Add	.....	0.20	
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	.....	1.81	
		For Up To 100, Add	.....	1.42	
		For >100 To 200, Add	.....	0.74	
		For >200 To 500, Add	.....	0.30	
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	.....	2.55	
		For Up To 100, Add	.....	2.03	
		For >100 To 200, Add	.....	1.06	
		For >200 To 500, Add	.....	0.42	
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	.....	0.73	
		For Up To 100, Add	.....	0.56	
		For >100 To 200, Add	.....	0.30	
		For >200 To 500, Add	.....	0.12	
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	.....	1.25	
		For Up To 100, Add	.....	0.98	
		For >100 To 200, Add	.....	0.51	
		For >200 To 500, Add	.....	0.21	
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	.....	1.90	
		For Up To 100, Add	.....	1.51	
		For >100 To 200, Add	.....	0.79	
		For >200 To 500, Add	.....	0.32	
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	.....	2.67	
		For Up To 100, Add	.....	2.15	
		For >100 To 200, Add	.....	1.12	
		For >200 To 500, Add	.....	0.45	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 11 00-0209	LF #7, Grade 60, Walls, Steel Reinforcement Bar		3.51	
	For Up To 100, Add	2.20		
	For >100 To 200, Add	1.24		
	For >200 To 400, Add	0.60		
03 21 11 00-0210	LF #8, Grade 60, Walls, Steel Reinforcement Bar		4.45	
	For Up To 100, Add	2.83		
	For >100 To 200, Add	1.59		
	For >200 To 400, Add	0.76		
03 21 11 00-0211	LF #9, Grade 60, Walls, Steel Reinforcement Bar		5.55	
	For Up To 100, Add	3.57		
	For >100 To 200, Add	2.00		
	For >200 To 400, Add	0.96		
03 21 11 00-0212	LF #10, Grade 60, Walls, Steel Reinforcement Bar		6.86	
	For Up To 100, Add	3.60		
	For >100 To 200, Add	1.89		
	For >200 To 300, Add	0.94		
03 21 11 00-0213	LF #11, Grade 60, Walls, Steel Reinforcement Bar		8.27	
	For Up To 100, Add	4.39		
	For >100 To 200, Add	2.29		
	For >200 To 300, Add	1.14		
03 21 11 00-0214	LF #14, Grade 60, Walls, Steel Reinforcement Bar		11.64	
	For Up To 100, Add	6.24		
	For >100 To 200, Add	3.24		
	For >200 To 300, Add	1.62		
03 21 11 00-0215	LF #18, Grade 60, Walls, Steel Reinforcement Bar		20.20	
	For Up To 100, Add	10.94		
	For >100 To 200, Add	5.67		
	For >200 To 300, Add	2.83		
03 21 11 00-0216	LF #6, Grade 75, Walls, Steel Reinforcement Bar		2.79	
	For Up To 100, Add	2.27		
	For >100 To 200, Add	1.18		
	For >200 To 500, Add	0.47		
03 21 11 00-0217	LF #7, Grade 75, Walls, Steel Reinforcement Bar		3.68	
	For Up To 100, Add	2.33		
	For >100 To 200, Add	1.31		
	For >200 To 400, Add	0.63		
03 21 11 00-0218	LF #8, Grade 75, Walls, Steel Reinforcement Bar		4.67	
	For Up To 100, Add	3.00		
	For >100 To 200, Add	1.68		
	For >200 To 400, Add	0.81		
03 21 11 00-0219	LF #9, Grade 75, Walls, Steel Reinforcement Bar		5.82	
	For Up To 100, Add	3.77		
	For >100 To 200, Add	2.11		
	For >200 To 400, Add	1.02		
03 21 11 00-0220	LF #10, Grade 75, Walls, Steel Reinforcement Bar		7.20	
	For Up To 100, Add	3.81		
	For >100 To 200, Add	1.99		
	For >200 To 300, Add	0.99		
03 21 11 00-0221	LF #11, Grade 75, Walls, Steel Reinforcement Bar		8.70	
	For Up To 100, Add	4.64		
	For >100 To 200, Add	2.42		
	For >200 To 300, Add	1.21		
03 21 11 00-0222	LF #14, Grade 75, Walls, Steel Reinforcement Bar		12.25	
	For Up To 100, Add	6.60		
	For >100 To 200, Add	3.43		
	For >200 To 300, Add	1.71		
03 21 11 00-0223	LF #18, Grade 75, Walls, Steel Reinforcement Bar		21.28	
	For Up To 100, Add	11.59		
	For >100 To 200, Add	5.99		
	For >200 To 300, Add	3.00		
03 21 11 00-0224	LF #3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar		0.75	
	For Up To 100, Add	0.58		
	For >100 To 200, Add	0.31		
	For >200 To 500, Add	0.12		
03 21 11 00-0225	LF #4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar		1.29	
	For Up To 100, Add	1.02		
	For >100 To 200, Add	0.53		
	For >200 To 500, Add	0.21		
03 21 11 00-0226	LF #5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar		1.96	
	For Up To 100, Add	1.57		
	For >100 To 200, Add	0.82		
	For >200 To 500, Add	0.33		
03 21 11 00-0227	LF #6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar		2.76	
	For Up To 100, Add	2.24		
	For >100 To 200, Add	1.16		
	For >200 To 500, Add	0.47		
03 21 11 00-0228	LF #7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar		3.64	
	For Up To 100, Add	2.30		
	For >100 To 200, Add	1.30		
	For >200 To 400, Add	0.62		
03 21 11 00-0229	LF #8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar		4.61	
	For Up To 100, Add	2.95		
	For >100 To 200, Add	1.66		
	For >200 To 400, Add	0.80		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0230	LF		#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	5.75	
			For Up To 100, Add	3.72	
			For >100 To 200, Add	2.08	
			For >200 To 400, Add	1.00	
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	7.11	
			For Up To 100, Add	3.75	
			For >100 To 200, Add	1.96	
			For >200 To 300, Add	0.98	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	8.59	
			For Up To 100, Add	4.58	
			For >100 To 200, Add	2.39	
			For >200 To 300, Add	1.19	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	12.09	
			For Up To 100, Add	6.51	
			For >100 To 200, Add	3.38	
			For >200 To 300, Add	1.69	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	21.01	
			For Up To 100, Add	11.42	
			For >100 To 200, Add	5.91	
			For >200 To 300, Add	2.95	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice.....	293.98	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice.....	159.12	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel.....	3.66	
			For Up To 12" Length, Deduct	-0.51	
			For >12" To <24" Length, Deduct	-0.26	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel.....	4.40	
			For Up To 12" Length, Deduct	-0.67	
			For >12" To <24" Length, Deduct	-0.34	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel.....	5.51	
			For Up To 12" Length, Deduct	-1.06	
			For >12" To <24" Length, Deduct	-0.53	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel.....	6.85	
			For Up To 12" Length, Deduct	-1.53	
			For >12" To <24" Length, Deduct	-0.76	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel.....	8.25	
			For Up To 12" Length, Deduct	-2.13	
			For >12" To <24" Length, Deduct	-1.06	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel.....	10.45	
			For Up To 12" Length, Deduct	-2.73	
			For >12" To <24" Length, Deduct	-1.36	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel.....	12.39	
			For Up To 12" Length, Deduct	-3.36	
			For >12" To <24" Length, Deduct	-1.68	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel.....	15.35	
			For Up To 12" Length, Deduct	-4.40	
			For >12" To <24" Length, Deduct	-2.20	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel.....	18.32	
			For Up To 12" Length, Deduct	-5.43	
			For >12" To <24" Length, Deduct	-2.71	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,712.87	
			For Grade 75, Add	141.73	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,669.12	
			For Grade 75, Add	141.73	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,635.76	
			For Grade 75, Add	141.73	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,581.16	
			For Grade 75, Add	141.73	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,507.36	
			For Grade 75, Add	141.73	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,480.83	
			For Grade 75, Add	145.22	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,419.05	
			For Grade 75, Add	145.22	
03 21 11 00-0258			Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0259			Reinforcing Steel Lap-Weld Splice (03 21 11 00-0258)		
03 21 11 00-0260	EA		Up To #6 Reinforcing Steel Lap-Weld Splice.....	72.28	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 11 00-0261	EA >#6 Reinforcing Steel Lap-Weld Splice	116.98		
03 21 11 00-0262	Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0258)			
03 21 11 00-0263	EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	38.78		
03 21 11 00-0264	EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	62.07		
03 21 11 00-0265	EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	95.66		
03 21 13	Galvanized Reinforcement Steel Bars (03 21)			
03 21 13 00-0001	Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)			
	Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0002	LF #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.03		
	For Up To 100, Add	0.77		
	For >100 To 200, Add	0.41		
	For >200 To 500, Add	0.16		
03 21 13 00-0003	LF #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.77		
	For Up To 100, Add	1.35		
	For >100 To 200, Add	0.71		
	For >200 To 500, Add	0.28		
03 21 13 00-0004	LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.70		
	For Up To 100, Add	2.09		
	For >100 To 200, Add	1.10		
	For >200 To 500, Add	0.44		
03 21 13 00-0005	LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	3.75		
	For Up To 100, Add	2.95		
	For >100 To 200, Add	1.54		
	For >200 To 500, Add	0.62		
03 21 13 00-0006	LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.05		
	For Up To 100, Add	0.79		
	For >100 To 200, Add	0.42		
	For >200 To 500, Add	0.17		
03 21 13 00-0007	LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.81		
	For Up To 100, Add	1.39		
	For >100 To 200, Add	0.73		
	For >200 To 500, Add	0.29		
03 21 13 00-0008	LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.75		
	For Up To 100, Add	2.14		
	For >100 To 200, Add	1.12		
	For >200 To 500, Add	0.45		
03 21 13 00-0009	LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	3.83		
	For Up To 100, Add	3.03		
	For >100 To 200, Add	1.58		
	For >200 To 500, Add	0.63		
03 21 13 00-0010	LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.08		
	For Up To 100, Add	0.82		
	For >100 To 200, Add	0.43		
	For >200 To 500, Add	0.17		
03 21 13 00-0011	LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.86		
	For Up To 100, Add	1.44		
	For >100 To 200, Add	0.76		
	For >200 To 500, Add	0.30		
03 21 13 00-0012	LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.83		
	For Up To 100, Add	2.22		
	For >100 To 200, Add	1.16		
	For >200 To 500, Add	0.46		
03 21 13 00-0013	LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.95		
	For Up To 100, Add	3.15		
	For >100 To 200, Add	1.64		
	For >200 To 500, Add	0.66		
03 21 13 00-0014	LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.20		
	For Up To 100, Add	3.24		
	For >100 To 200, Add	1.83		
	For >200 To 400, Add	0.88		
03 21 13 00-0015	LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.58		
	For Up To 100, Add	4.16		
	For >100 To 200, Add	2.34		
	For >200 To 400, Add	1.12		
03 21 13 00-0016	LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	8.19		
	For Up To 100, Add	5.23		
	For >100 To 200, Add	2.94		
	For >200 To 400, Add	1.41		
03 21 13 00-0017	LF #10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	10.13		
	For Up To 100, Add	5.29		
	For >100 To 200, Add	2.78		
	For >200 To 300, Add	1.39		
03 21 13 00-0018	LF #11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	12.20		
	For Up To 100, Add	6.43		
	For >100 To 200, Add	3.36		
	For >200 To 300, Add	1.68		
03 21 13 00-0019	LF #14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	17.14		
	For Up To 100, Add	9.14		
	For >100 To 200, Add	4.76		
	For >200 To 300, Add	2.38		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0020	LF		#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	29.71	
			For Up To 100, Add	16.01	
			For >100 To 200, Add	8.31	
			For >200 To 300, Add	4.15	
03 21 13 00-0021	LF		#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.07	
			For Up To 100, Add	3.27	
			For >100 To 200, Add	1.70	
			For >200 To 500, Add	0.68	
03 21 13 00-0022	LF		#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.36	
			For Up To 100, Add	3.36	
			For >100 To 200, Add	1.90	
			For >200 To 400, Add	0.91	
03 21 13 00-0023	LF		#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.79	
			For Up To 100, Add	4.32	
			For >100 To 200, Add	2.43	
			For >200 To 400, Add	1.17	
03 21 13 00-0024	LF		#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	8.46	
			For Up To 100, Add	5.44	
			For >100 To 200, Add	3.04	
			For >200 To 400, Add	1.47	
03 21 13 00-0025	LF		#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	10.47	
			For Up To 100, Add	5.49	
			For >100 To 200, Add	2.88	
			For >200 To 300, Add	1.44	
03 21 13 00-0026	LF		#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	12.63	
			For Up To 100, Add	6.69	
			For >100 To 200, Add	3.49	
			For >200 To 300, Add	1.75	
03 21 13 00-0027	LF		#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	17.75	
			For Up To 100, Add	9.50	
			For >100 To 200, Add	4.94	
			For >200 To 300, Add	2.47	
03 21 13 00-0028	LF		#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	30.79	
			For Up To 100, Add	16.66	
			For >100 To 200, Add	8.63	
			For >200 To 300, Add	4.32	
03 21 13 00-0029			Columns, Galvanized Steel Reinforcement Bar (03 21 13) Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0030	LF		#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.06	
			For Up To 100, Add	0.78	
			For >100 To 200, Add	0.42	
			For >200 To 500, Add	0.17	
03 21 13 00-0031	LF		#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.85	
			For Up To 100, Add	1.38	
			For >100 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
03 21 13 00-0032	LF		#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.79	
			For Up To 100, Add	2.12	
			For >100 To 200, Add	1.12	
			For >200 To 500, Add	0.45	
03 21 13 00-0033	LF		#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	3.88	
			For Up To 100, Add	3.00	
			For >100 To 200, Add	1.57	
			For >200 To 500, Add	0.63	
03 21 13 00-0034	LF		#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.08	
			For Up To 100, Add	0.80	
			For >100 To 200, Add	0.43	
			For >200 To 500, Add	0.17	
03 21 13 00-0035	LF		#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.89	
			For Up To 100, Add	1.42	
			For >100 To 200, Add	0.75	
			For >200 To 500, Add	0.30	
03 21 13 00-0036	LF		#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.84	
			For Up To 100, Add	2.17	
			For >100 To 200, Add	1.14	
			For >200 To 500, Add	0.46	
03 21 13 00-0037	LF		#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	3.96	
			For Up To 100, Add	3.08	
			For >100 To 200, Add	1.61	
			For >200 To 500, Add	0.65	
03 21 13 00-0038	LF		#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.11	
			For Up To 100, Add	0.83	
			For >100 To 200, Add	0.44	
			For >200 To 500, Add	0.18	
03 21 13 00-0039	LF		#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.94	
			For Up To 100, Add	1.47	
			For >100 To 200, Add	0.78	
			For >200 To 500, Add	0.31	
03 21 13 00-0040	LF		#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.92	
			For Up To 100, Add	2.25	
			For >100 To 200, Add	1.18	
			For >200 To 500, Add	0.47	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

CS

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	4.08	
		For Up To 100, Add		3.20	
		For >100 To 200, Add		1.67	
		For >200 To 500, Add		0.67	
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	5.37	
		For Up To 100, Add		3.30	
		For >100 To 200, Add		1.88	
		For >200 To 400, Add		0.89	
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	6.77	
		For Up To 100, Add		4.23	
		For >100 To 200, Add		2.39	
		For >200 To 400, Add		1.14	
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	8.41	
		For Up To 100, Add		5.31	
		For >100 To 200, Add		2.99	
		For >200 To 400, Add		1.43	
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	10.38	
		For Up To 100, Add		5.36	
		For >100 To 200, Add		2.83	
		For >200 To 300, Add		1.41	
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	12.49	
		For Up To 100, Add		6.52	
		For >100 To 200, Add		3.42	
		For >200 To 300, Add		1.71	
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	17.53	
		For Up To 100, Add		9.25	
		For >100 To 200, Add		4.84	
		For >200 To 300, Add		2.42	
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	30.31	
		For Up To 100, Add		16.19	
		For >100 To 200, Add		8.43	
		For >200 To 300, Add		4.21	
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	4.20	
		For Up To 100, Add		3.32	
		For >100 To 200, Add		1.73	
		For >200 To 500, Add		0.69	
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	5.53	
		For Up To 100, Add		3.42	
		For >100 To 200, Add		1.94	
		For >200 To 400, Add		0.93	
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	6.98	
		For Up To 100, Add		4.39	
		For >100 To 200, Add		2.47	
		For >200 To 400, Add		1.18	
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	8.68	
		For Up To 100, Add		5.51	
		For >100 To 200, Add		3.10	
		For >200 To 400, Add		1.49	
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	10.72	
		For Up To 100, Add		5.57	
		For >100 To 200, Add		2.93	
		For >200 To 300, Add		1.46	
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	12.92	
		For Up To 100, Add		6.78	
		For >100 To 200, Add		3.55	
		For >200 To 300, Add		1.78	
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	18.14	
		For Up To 100, Add		9.62	
		For >100 To 200, Add		5.02	
		For >200 To 300, Add		2.51	
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	31.39	
		For Up To 100, Add		16.84	
		For >100 To 200, Add		8.75	
		For >200 To 300, Add		4.38	
03 21 13 00-0057		Footings, Galvanized Steel Reinforcement Bar	(03 21 13)		
		Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	0.96	
		For Up To 100, Add		0.74	
		For >100 To 200, Add		0.39	
		For >200 To 500, Add		0.16	
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	1.67	
		For Up To 100, Add		1.31	
		For >100 To 200, Add		0.69	
		For >200 To 500, Add		0.27	
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	2.55	
		For Up To 100, Add		2.03	
		For >100 To 200, Add		1.06	
		For >200 To 500, Add		0.42	
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	3.55	
		For Up To 100, Add		2.87	
		For >100 To 200, Add		1.49	
		For >200 To 500, Add		0.60	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	0.98	
		For Up To 100, Add		0.76	
		For >100 To 200, Add		0.40	
		For >200 To 500, Add		0.16	
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	1.71	
		For Up To 100, Add		1.35	
		For >100 To 200, Add		0.71	
		For >200 To 500, Add		0.28	
03 21 13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	2.60	
		For Up To 100, Add		2.08	
		For >100 To 200, Add		1.08	
		For >200 To 500, Add		0.43	
03 21 13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	3.63	
		For Up To 100, Add		2.95	
		For >100 To 200, Add		1.53	
		For >200 To 500, Add		0.61	
03 21 13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	1.01	
		For Up To 100, Add		0.79	
		For >100 To 200, Add		0.42	
		For >200 To 500, Add		0.17	
03 21 13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	1.76	
		For Up To 100, Add		1.40	
		For >100 To 200, Add		0.73	
		For >200 To 500, Add		0.29	
03 21 13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	2.68	
		For Up To 100, Add		2.16	
		For >100 To 200, Add		1.12	
		For >200 To 500, Add		0.45	
03 21 13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	3.75	
		For Up To 100, Add		3.07	
		For >100 To 200, Add		1.59	
		For >200 To 500, Add		0.64	
03 21 13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	4.96	
		For Up To 100, Add		3.16	
		For >100 To 200, Add		1.77	
		For >200 To 400, Add		0.85	
03 21 13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	6.29	
		For Up To 100, Add		4.06	
		For >100 To 200, Add		2.27	
		For >200 To 400, Add		1.09	
03 21 13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	7.84	
		For Up To 100, Add		5.11	
		For >100 To 200, Add		2.85	
		For >200 To 400, Add		1.38	
03 21 13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	9.72	
		For Up To 100, Add		5.16	
		For >100 To 200, Add		2.69	
		For >200 To 300, Add		1.35	
03 21 13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	11.76	
		For Up To 100, Add		6.30	
		For >100 To 200, Add		3.28	
		For >200 To 300, Add		1.64	
03 21 13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	16.57	
		For Up To 100, Add		8.96	
		For >100 To 200, Add		4.65	
		For >200 To 300, Add		2.32	
03 21 13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	.....	28.79	
		For Up To 100, Add		15.74	
		For >100 To 200, Add		8.12	
		For >200 To 300, Add		4.06	
03 21 13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	3.87	
		For Up To 100, Add		3.19	
		For >100 To 200, Add		1.65	
		For >200 To 500, Add		0.66	
03 21 13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	5.12	
		For Up To 100, Add		3.28	
		For >100 To 200, Add		1.84	
		For >200 To 400, Add		0.88	
03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	6.50	
		For Up To 100, Add		4.22	
		For >100 To 200, Add		2.35	
		For >200 To 400, Add		1.14	
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	8.11	
		For Up To 100, Add		5.31	
		For >100 To 200, Add		2.96	
		For >200 To 400, Add		1.43	
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	10.06	
		For Up To 100, Add		5.37	
		For >100 To 200, Add		2.80	
		For >200 To 300, Add		1.40	
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	12.19	
		For Up To 100, Add		6.56	
		For >100 To 200, Add		3.41	
		For >200 To 300, Add		1.70	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	17.18	
		For Up To 100, Add		9.33	
		For >100 To 200, Add		4.63	
		For >200 To 300, Add		2.41	
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	.....	29.87	
		For Up To 100, Add		16.38	
		For >100 To 200, Add		8.45	
		For >200 To 300, Add		4.22	
03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)					
Note: ASTM A-767 Hot Dipped Galvanized Steel.					
03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	0.94	
		For Up To 100, Add		0.74	
		For >100 To 200, Add		0.39	
		For >200 To 500, Add		0.15	
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.63	
		For Up To 100, Add		1.29	
		For >100 To 200, Add		0.68	
		For >200 To 500, Add		0.27	
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	2.50	
		For Up To 100, Add		2.01	
		For >100 To 200, Add		1.05	
		For >200 To 500, Add		0.42	
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	3.48	
		For Up To 100, Add		2.84	
		For >100 To 200, Add		1.47	
		For >200 To 500, Add		0.59	
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	0.96	
		For Up To 100, Add		0.76	
		For >100 To 200, Add		0.40	
		For >200 To 500, Add		0.16	
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.67	
		For Up To 100, Add		1.33	
		For >100 To 200, Add		0.70	
		For >200 To 500, Add		0.28	
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	2.55	
		For Up To 100, Add		2.06	
		For >100 To 200, Add		1.07	
		For >200 To 500, Add		0.43	
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	3.56	
		For Up To 100, Add		2.92	
		For >100 To 200, Add		1.51	
		For >200 To 500, Add		0.61	
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	0.99	
		For Up To 100, Add		0.79	
		For >100 To 200, Add		0.41	
		For >200 To 500, Add		0.16	
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	1.72	
		For Up To 100, Add		1.38	
		For >100 To 200, Add		0.72	
		For >200 To 500, Add		0.29	
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	2.63	
		For Up To 100, Add		2.14	
		For >100 To 200, Add		1.11	
		For >200 To 500, Add		0.44	
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	3.68	
		For Up To 100, Add		3.04	
		For >100 To 200, Add		1.57	
		For >200 To 500, Add		0.63	
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	4.88	
		For Up To 100, Add		3.13	
		For >100 To 200, Add		1.75	
		For >200 To 400, Add		0.84	
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	6.20	
		For Up To 100, Add		4.03	
		For >100 To 200, Add		2.25	
		For >200 To 400, Add		1.09	
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	7.73	
		For Up To 100, Add		5.07	
		For >100 To 200, Add		2.82	
		For >200 To 400, Add		1.37	
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	9.59	
		For Up To 100, Add		5.12	
		For >100 To 200, Add		2.67	
		For >200 To 300, Add		1.33	
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	11.61	
		For Up To 100, Add		6.26	
		For >100 To 200, Add		3.25	
		For >200 To 300, Add		1.62	
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	16.37	
		For Up To 100, Add		8.90	
		For >100 To 200, Add		4.61	
		For >200 To 300, Add		2.30	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	28.50	
		For Up To 100, Add	15.65	
		For >100 To 200, Add	8.07	
		For >200 To 300, Add	4.03	
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.80	
		For Up To 100, Add	3.16	
		For >100 To 200, Add	1.63	
		For >200 To 500, Add	0.65	
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.04	
		For Up To 100, Add	3.25	
		For >100 To 200, Add	1.82	
		For >200 To 400, Add	0.88	
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	6.41	
		For Up To 100, Add	4.19	
		For >100 To 200, Add	2.33	
		For >200 To 400, Add	1.13	
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	8.00	
		For Up To 100, Add	5.28	
		For >100 To 200, Add	2.93	
		For >200 To 400, Add	1.42	
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	9.93	
		For Up To 100, Add	5.33	
		For >100 To 200, Add	2.77	
		For >200 To 300, Add	1.38	
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	12.04	
		For Up To 100, Add	6.51	
		For >100 To 200, Add	3.38	
		For >200 To 300, Add	1.69	
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	16.98	
		For Up To 100, Add	9.27	
		For >100 To 200, Add	4.79	
		For >200 To 300, Add	2.39	
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	29.58	
		For Up To 100, Add	16.30	
		For >100 To 200, Add	8.39	
		For >200 To 300, Add	4.20	
03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)				
Note: ASTM A-767 Hot Dipped Galvanized Steel.				
03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.90	
		For Up To 100, Add	0.72	
		For >100 To 200, Add	0.38	
		For >200 To 500, Add	0.15	
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.56	
		For Up To 100, Add	1.27	
		For >100 To 200, Add	0.66	
		For >200 To 500, Add	0.26	
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.39	
		For Up To 100, Add	1.96	
		For >100 To 200, Add	1.02	
		For >200 To 500, Add	0.41	
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.35	
		For Up To 100, Add	2.79	
		For >100 To 200, Add	1.44	
		For >200 To 500, Add	0.58	
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.92	
		For Up To 100, Add	0.74	
		For >100 To 200, Add	0.39	
		For >200 To 500, Add	0.15	
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.60	
		For Up To 100, Add	1.31	
		For >100 To 200, Add	0.68	
		For >200 To 500, Add	0.27	
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.44	
		For Up To 100, Add	2.01	
		For >100 To 200, Add	1.04	
		For >200 To 500, Add	0.42	
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.43	
		For Up To 100, Add	2.87	
		For >100 To 200, Add	1.48	
		For >200 To 500, Add	0.59	
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.95	
		For Up To 100, Add	0.77	
		For >100 To 200, Add	0.40	
		For >200 To 500, Add	0.16	
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.65	
		For Up To 100, Add	1.36	
		For >100 To 200, Add	0.70	
		For >200 To 500, Add	0.28	
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.52	
		For Up To 100, Add	2.09	
		For >100 To 200, Add	1.08	
		For >200 To 500, Add	0.43	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 13 00-0125	LF #6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		3.55	
	For Up To 100, Add	2.99		
	For >100 To 200, Add	1.54		
	For >200 To 500, Add	0.62		
03 21 13 00-0126	LF #7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		4.72	
	For Up To 100, Add	3.08		
	For >100 To 200, Add	1.71		
	For >200 To 400, Add	0.83		
03 21 13 00-0127	LF #8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		6.00	
	For Up To 100, Add	3.96		
	For >100 To 200, Add	2.20		
	For >200 To 400, Add	1.07		
03 21 13 00-0128	LF #9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		7.51	
	For Up To 100, Add	5.00		
	For >100 To 200, Add	2.77		
	For >200 To 400, Add	1.34		
03 21 13 00-0129	LF #10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		9.33	
	For Up To 100, Add	5.05		
	For >100 To 200, Add	2.62		
	For >200 To 300, Add	1.31		
03 21 13 00-0130	LF #11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		11.30	
	For Up To 100, Add	6.16		
	For >100 To 200, Add	3.18		
	For >200 To 300, Add	1.59		
03 21 13 00-0131	LF #14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		15.99	
	For Up To 100, Add	8.79		
	For >100 To 200, Add	4.53		
	For >200 To 300, Add	2.26		
03 21 13 00-0132	LF #18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar		27.90	
	For Up To 100, Add	15.47		
	For >100 To 200, Add	7.95		
	For >200 To 300, Add	3.97		
03 21 13 00-0133	LF #6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		3.67	
	For Up To 100, Add	3.11		
	For >100 To 200, Add	1.60		
	For >200 To 500, Add	0.64		
03 21 13 00-0134	LF #7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		4.88	
	For Up To 100, Add	3.20		
	For >100 To 200, Add	1.78		
	For >200 To 400, Add	0.86		
03 21 13 00-0135	LF #8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		6.21	
	For Up To 100, Add	4.12		
	For >100 To 200, Add	2.28		
	For >200 To 400, Add	1.11		
03 21 13 00-0136	LF #9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		7.78	
	For Up To 100, Add	5.20		
	For >100 To 200, Add	2.87		
	For >200 To 400, Add	1.40		
03 21 13 00-0137	LF #10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		9.67	
	For Up To 100, Add	5.25		
	For >100 To 200, Add	2.72		
	For >200 To 300, Add	1.36		
03 21 13 00-0138	LF #11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		11.73	
	For Up To 100, Add	6.42		
	For >100 To 200, Add	3.31		
	For >200 To 300, Add	1.66		
03 21 13 00-0139	LF #14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		16.60	
	For Up To 100, Add	9.16		
	For >100 To 200, Add	4.71		
	For >200 To 300, Add	2.36		
03 21 13 00-0140	LF #18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar		28.98	
	For Up To 100, Add	16.12		
	For >100 To 200, Add	8.27		
	For >200 To 300, Add	4.14		
03 21 13 00-0141	Walls, Galvanized Steel Reinforcement Bar (03 21 13)			
	Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0142	LF #3, Grade 40, Walls, Galvanized Steel Reinforcement Bar		0.88	
	For Up To 100, Add	0.71		
	For >100 To 200, Add	0.37		
	For >200 To 500, Add	0.15		
03 21 13 00-0143	LF #4, Grade 40, Walls, Galvanized Steel Reinforcement Bar		1.52	
	For Up To 100, Add	1.25		
	For >100 To 200, Add	0.65		
	For >200 To 500, Add	0.26		
03 21 13 00-0144	LF #5, Grade 40, Walls, Galvanized Steel Reinforcement Bar		2.33	
	For Up To 100, Add	1.94		
	For >100 To 200, Add	1.00		
	For >200 To 500, Add	0.40		
03 21 13 00-0145	LF #6, Grade 40, Walls, Galvanized Steel Reinforcement Bar		3.28	
	For Up To 100, Add	2.76		
	For >100 To 200, Add	1.42		
	For >200 To 500, Add	0.57		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	0.90	
		For Up To 100, Add	.....	0.73	
		For >100 To 200, Add	.....	0.38	
		For >200 To 500, Add	.....	0.15	
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	1.56	
		For Up To 100, Add	.....	1.29	
		For >100 To 200, Add	.....	0.67	
		For >200 To 500, Add	.....	0.27	
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	2.38	
		For Up To 100, Add	.....	1.99	
		For >100 To 200, Add	.....	1.03	
		For >200 To 500, Add	.....	0.41	
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	3.36	
		For Up To 100, Add	.....	2.84	
		For >100 To 200, Add	.....	1.46	
		For >200 To 500, Add	.....	0.59	
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	0.93	
		For Up To 100, Add	.....	0.76	
		For >100 To 200, Add	.....	0.40	
		For >200 To 500, Add	.....	0.16	
03 21 13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	1.61	
		For Up To 100, Add	.....	1.34	
		For >100 To 200, Add	.....	0.69	
		For >200 To 500, Add	.....	0.28	
03 21 13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	2.46	
		For Up To 100, Add	.....	2.07	
		For >100 To 200, Add	.....	1.07	
		For >200 To 500, Add	.....	0.43	
03 21 13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	3.48	
		For Up To 100, Add	.....	2.96	
		For >100 To 200, Add	.....	1.52	
		For >200 To 500, Add	.....	0.61	
03 21 13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	4.63	
		For Up To 100, Add	.....	3.04	
		For >100 To 200, Add	.....	1.69	
		For >200 To 400, Add	.....	0.82	
03 21 13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	5.91	
		For Up To 100, Add	.....	3.93	
		For >100 To 200, Add	.....	2.18	
		For >200 To 400, Add	.....	1.06	
03 21 13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	7.40	
		For Up To 100, Add	.....	4.96	
		For >100 To 200, Add	.....	2.74	
		For >200 To 400, Add	.....	1.33	
03 21 13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	9.20	
		For Up To 100, Add	.....	5.01	
		For >100 To 200, Add	.....	2.59	
		For >200 To 300, Add	.....	1.29	
03 21 13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	11.16	
		For Up To 100, Add	.....	6.12	
		For >100 To 200, Add	.....	3.16	
		For >200 To 300, Add	.....	1.58	
03 21 13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	15.80	
		For Up To 100, Add	.....	8.73	
		For >100 To 200, Add	.....	4.49	
		For >200 To 300, Add	.....	2.25	
03 21 13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	27.60	
		For Up To 100, Add	.....	15.38	
		For >100 To 200, Add	.....	7.89	
		For >200 To 300, Add	.....	3.94	
03 21 13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	3.60	
		For Up To 100, Add	.....	3.08	
		For >100 To 200, Add	.....	1.58	
		For >200 To 500, Add	.....	0.63	
03 21 13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	4.79	
		For Up To 100, Add	.....	3.16	
		For >100 To 200, Add	.....	1.76	
		For >200 To 400, Add	.....	0.85	
03 21 13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	6.12	
		For Up To 100, Add	.....	4.09	
		For >100 To 200, Add	.....	2.26	
		For >200 To 400, Add	.....	1.10	
03 21 13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	7.67	
		For Up To 100, Add	.....	5.16	
		For >100 To 200, Add	.....	2.85	
		For >200 To 400, Add	.....	1.39	
03 21 13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	9.54	
		For Up To 100, Add	.....	5.21	
		For >100 To 200, Add	.....	2.69	
		For >200 To 300, Add	.....	1.35	
03 21 13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	11.59	
		For Up To 100, Add	.....	6.38	
		For >100 To 200, Add	.....	3.29	
		For >200 To 300, Add	.....	1.64	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
03 21 13 00-0167	LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar		16.41	
	For Up To 100, Add		9.10	
	For >100 To 200, Add		4.67	
	For >200 To 300, Add		2.34	
03 21 13 00-0168	LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar		28.68	
	For Up To 100, Add		16.03	
	For >100 To 200, Add		8.21	
	For >200 To 300, Add		4.11	
03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)				
03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)				
Note: ASTM A-775 Epoxy Coated Steel.				
03 21 16 00-0002	LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		1.01	
	For Up To 100, Add		0.75	
	For >100 To 200, Add		0.40	
	For >200 To 500, Add		0.16	
03 21 16 00-0003	LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		1.73	
	For Up To 100, Add		1.31	
	For >100 To 200, Add		0.69	
	For >200 To 500, Add		0.28	
03 21 16 00-0004	LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		2.63	
	For Up To 100, Add		2.02	
	For >100 To 200, Add		1.06	
	For >200 To 500, Add		0.42	
03 21 16 00-0005	LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		3.66	
	For Up To 100, Add		2.86	
	For >100 To 200, Add		1.50	
	For >200 To 500, Add		0.60	
03 21 16 00-0006	LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		1.03	
	For Up To 100, Add		0.77	
	For >100 To 200, Add		0.41	
	For >200 To 500, Add		0.16	
03 21 16 00-0007	LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		1.77	
	For Up To 100, Add		1.35	
	For >100 To 200, Add		0.71	
	For >200 To 500, Add		0.28	
03 21 16 00-0008	LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		2.69	
	For Up To 100, Add		2.08	
	For >100 To 200, Add		1.09	
	For >200 To 500, Add		0.44	
03 21 16 00-0009	LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		3.74	
	For Up To 100, Add		2.94	
	For >100 To 200, Add		1.54	
	For >200 To 500, Add		0.61	
03 21 16 00-0010	LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		1.06	
	For Up To 100, Add		0.80	
	For >100 To 200, Add		0.42	
	For >200 To 500, Add		0.17	
03 21 16 00-0011	LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		1.82	
	For Up To 100, Add		1.40	
	For >100 To 200, Add		0.74	
	For >200 To 500, Add		0.29	
03 21 16 00-0012	LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		2.77	
	For Up To 100, Add		2.16	
	For >100 To 200, Add		1.13	
	For >200 To 500, Add		0.45	
03 21 16 00-0013	LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		3.86	
	For Up To 100, Add		3.06	
	For >100 To 200, Add		1.60	
	For >200 To 500, Add		0.64	
03 21 16 00-0014	LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		5.08	
	For Up To 100, Add		3.15	
	For >100 To 200, Add		1.79	
	For >200 To 400, Add		0.85	
03 21 16 00-0015	LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		6.42	
	For Up To 100, Add		4.04	
	For >100 To 200, Add		2.28	
	For >200 To 400, Add		1.09	
03 21 16 00-0016	LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		7.98	
	For Up To 100, Add		5.08	
	For >100 To 200, Add		2.85	
	For >200 To 400, Add		1.37	
03 21 16 00-0017	LF #10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		9.87	
	For Up To 100, Add		5.13	
	For >100 To 200, Add		2.70	
	For >200 To 300, Add		1.35	
03 21 16 00-0018	LF #11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		11.89	
	For Up To 100, Add		6.25	
	For >100 To 200, Add		3.27	
	For >200 To 300, Add		1.64	
03 21 16 00-0019	LF #14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar		16.69	
	For Up To 100, Add		8.87	
	For >100 To 200, Add		4.62	
	For >200 To 300, Add		2.31	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0020	LF		#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	28.91	
			For Up To 100, Add	15.53	
			For >100 To 200, Add	8.07	
			For >200 To 300, Add	4.03	
03 21 16 00-0021	LF		#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.98	
			For Up To 100, Add	3.18	
			For >100 To 200, Add	1.66	
			For >200 To 500, Add	0.66	
03 21 16 00-0022	LF		#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.24	
			For Up To 100, Add	3.27	
			For >100 To 200, Add	1.85	
			For >200 To 400, Add	0.88	
03 21 16 00-0023	LF		#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.63	
			For Up To 100, Add	4.20	
			For >100 To 200, Add	2.36	
			For >200 To 400, Add	1.13	
03 21 16 00-0024	LF		#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.25	
			For Up To 100, Add	5.28	
			For >100 To 200, Add	2.96	
			For >200 To 400, Add	1.42	
03 21 16 00-0025	LF		#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	10.21	
			For Up To 100, Add	5.33	
			For >100 To 200, Add	2.80	
			For >200 To 300, Add	1.40	
03 21 16 00-0026	LF		#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	12.31	
			For Up To 100, Add	6.50	
			For >100 To 200, Add	3.40	
			For >200 To 300, Add	1.70	
03 21 16 00-0027	LF		#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	17.29	
			For Up To 100, Add	9.23	
			For >100 To 200, Add	4.80	
			For >200 To 300, Add	2.40	
03 21 16 00-0028	LF		#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	29.99	
			For Up To 100, Add	16.18	
			For >100 To 200, Add	8.39	
			For >200 To 300, Add	4.20	
03 21 16 00-0029			Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16) Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0030	LF		#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.04	
			For Up To 100, Add	0.76	
			For >100 To 200, Add	0.41	
			For >200 To 500, Add	0.16	
03 21 16 00-0031	LF		#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.81	
			For Up To 100, Add	1.34	
			For >100 To 200, Add	0.71	
			For >200 To 500, Add	0.28	
03 21 16 00-0032	LF		#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.72	
			For Up To 100, Add	2.05	
			For >100 To 200, Add	1.08	
			For >200 To 500, Add	0.43	
03 21 16 00-0033	LF		#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	3.79	
			For Up To 100, Add	2.91	
			For >100 To 200, Add	1.53	
			For >200 To 500, Add	0.61	
03 21 16 00-0034	LF		#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.06	
			For Up To 100, Add	0.78	
			For >100 To 200, Add	0.42	
			For >200 To 500, Add	0.17	
03 21 16 00-0035	LF		#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.85	
			For Up To 100, Add	1.38	
			For >100 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
03 21 16 00-0036	LF		#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.78	
			For Up To 100, Add	2.11	
			For >100 To 200, Add	1.11	
			For >200 To 500, Add	0.45	
03 21 16 00-0037	LF		#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	3.87	
			For Up To 100, Add	2.99	
			For >100 To 200, Add	1.57	
			For >200 To 500, Add	0.63	
03 21 16 00-0038	LF		#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.09	
			For Up To 100, Add	0.81	
			For >100 To 200, Add	0.43	
			For >200 To 500, Add	0.17	
03 21 16 00-0039	LF		#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	1.90	
			For Up To 100, Add	1.43	
			For >100 To 200, Add	0.76	
			For >200 To 500, Add	0.30	
03 21 16 00-0040	LF		#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	2.86	
			For Up To 100, Add	2.19	
			For >100 To 200, Add	1.15	
			For >200 To 500, Add	0.46	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 16 00-0041	LF #6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		3.99	
	For Up To 100, Add	3.11		
	For >100 To 200, Add	1.63		
	For >200 To 500, Add	0.65		
03 21 16 00-0042	LF #7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		5.25	
	For Up To 100, Add	3.21		
	For >100 To 200, Add	1.83		
	For >200 To 400, Add	0.87		
03 21 16 00-0043	LF #8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		6.61	
	For Up To 100, Add	4.11		
	For >100 To 200, Add	2.33		
	For >200 To 400, Add	1.11		
03 21 16 00-0044	LF #9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		8.20	
	For Up To 100, Add	5.15		
	For >100 To 200, Add	2.91		
	For >200 To 400, Add	1.39		
03 21 16 00-0045	LF #10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		10.12	
	For Up To 100, Add	5.21		
	For >100 To 200, Add	2.75		
	For >200 To 300, Add	1.37		
03 21 16 00-0046	LF #11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		12.18	
	For Up To 100, Add	6.33		
	For >100 To 200, Add	3.33		
	For >200 To 300, Add	1.66		
03 21 16 00-0047	LF #14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		17.08	
	For Up To 100, Add	8.98		
	For >100 To 200, Add	4.70		
	For >200 To 300, Add	2.35		
03 21 16 00-0048	LF #18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar		29.51	
	For Up To 100, Add	15.71		
	For >100 To 200, Add	8.19		
	For >200 To 300, Add	4.09		
03 21 16 00-0049	LF #6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		4.11	
	For Up To 100, Add	3.23		
	For >100 To 200, Add	1.69		
	For >200 To 500, Add	0.68		
03 21 16 00-0050	LF #7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		5.41	
	For Up To 100, Add	3.33		
	For >100 To 200, Add	1.89		
	For >200 To 400, Add	0.90		
03 21 16 00-0051	LF #8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		6.82	
	For Up To 100, Add	4.27		
	For >100 To 200, Add	2.41		
	For >200 To 400, Add	1.15		
03 21 16 00-0052	LF #9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		8.47	
	For Up To 100, Add	5.36		
	For >100 To 200, Add	3.01		
	For >200 To 400, Add	1.45		
03 21 16 00-0053	LF #10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		10.46	
	For Up To 100, Add	5.41		
	For >100 To 200, Add	2.85		
	For >200 To 300, Add	1.42		
03 21 16 00-0054	LF #11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		12.60	
	For Up To 100, Add	6.59		
	For >100 To 200, Add	3.46		
	For >200 To 300, Add	1.73		
03 21 16 00-0055	LF #14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		17.68	
	For Up To 100, Add	9.34		
	For >100 To 200, Add	4.88		
	For >200 To 300, Add	2.44		
03 21 16 00-0056	LF #18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar		30.59	
	For Up To 100, Add	16.36		
	For >100 To 200, Add	8.51		
	For >200 To 300, Add	4.26		
03 21 16 00-0057	Footings, Epoxy Coated Steel Reinforcement Bar (03 21 16)			
	Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0058	LF #3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar		0.94	
	For Up To 100, Add	0.72		
	For >100 To 200, Add	0.38		
	For >200 To 500, Add	0.15		
03 21 16 00-0059	LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar		1.63	
	For Up To 100, Add	1.27		
	For >100 To 200, Add	0.67		
	For >200 To 500, Add	0.27		
03 21 16 00-0060	LF #5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar		2.48	
	For Up To 100, Add	1.96		
	For >100 To 200, Add	1.02		
	For >200 To 500, Add	0.41		
03 21 16 00-0061	LF #6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar		3.46	
	For Up To 100, Add	2.78		
	For >100 To 200, Add	1.45		
	For >200 To 500, Add	0.58		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0062 LF #3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.96	
For Up To 100, Add	0.74	
For >100 To 200, Add	0.39	
For >200 To 500, Add	0.16	
03 21 16 00-0063 LF #4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.67	
03 21 16 00-0064 LF #5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.54	
For Up To 100, Add	2.02	
For >100 To 200, Add	1.05	
For >200 To 500, Add	0.42	
03 21 16 00-0065 LF #6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.54	
For Up To 100, Add	2.86	
For >100 To 200, Add	1.49	
For >200 To 500, Add	0.59	
03 21 16 00-0066 LF #3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.99	
For Up To 100, Add	0.77	
For >100 To 200, Add	0.41	
For >200 To 500, Add	0.16	
03 21 16 00-0067 LF #4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.72	
For Up To 100, Add	1.36	
For >100 To 200, Add	0.71	
For >200 To 500, Add	0.28	
03 21 16 00-0068 LF #5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.62	
For Up To 100, Add	2.10	
For >100 To 200, Add	1.09	
For >200 To 500, Add	0.44	
03 21 16 00-0069 LF #6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.66	
For Up To 100, Add	2.98	
For >100 To 200, Add	1.55	
For >200 To 500, Add	0.62	
03 21 16 00-0070 LF #7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.84	
For Up To 100, Add	3.07	
For >100 To 200, Add	1.73	
For >200 To 400, Add	0.83	
03 21 16 00-0071 LF #8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	6.13	
For Up To 100, Add	3.94	
For >100 To 200, Add	2.21	
For >200 To 400, Add	1.06	
03 21 16 00-0072 LF #9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	7.63	
For Up To 100, Add	4.95	
For >100 To 200, Add	2.76	
For >200 To 400, Add	1.33	
03 21 16 00-0073 LF #10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	9.46	
For Up To 100, Add	5.01	
For >100 To 200, Add	2.62	
For >200 To 300, Add	1.31	
03 21 16 00-0074 LF #11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.45	
For Up To 100, Add	6.11	
For >100 To 200, Add	3.18	
For >200 To 300, Add	1.59	
03 21 16 00-0075 LF #14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	16.12	
For Up To 100, Add	8.69	
For >100 To 200, Add	4.51	
For >200 To 300, Add	2.26	
03 21 16 00-0076 LF #18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	27.99	
For Up To 100, Add	15.26	
For >100 To 200, Add	7.88	
For >200 To 300, Add	3.94	
03 21 16 00-0077 LF #6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.78	
For Up To 100, Add	3.10	
For >100 To 200, Add	1.61	
For >200 To 500, Add	0.64	
03 21 16 00-0078 LF #7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.00	
For Up To 100, Add	3.19	
For >100 To 200, Add	1.79	
For >200 To 400, Add	0.86	
03 21 16 00-0079 LF #8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	6.34	
For Up To 100, Add	4.10	
For >100 To 200, Add	2.29	
For >200 To 400, Add	1.10	
03 21 16 00-0080 LF #9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	7.90	
For Up To 100, Add	5.16	
For >100 To 200, Add	2.87	
For >200 To 400, Add	1.39	
03 21 16 00-0081 LF #10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	9.80	
For Up To 100, Add	5.21	
For >100 To 200, Add	2.72	
For >200 To 300, Add	1.36	
03 21 16 00-0082 LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.87	
For Up To 100, Add	6.37	
For >100 To 200, Add	3.31	
For >200 To 300, Add	1.65	
03 21 16 00-0083 LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	16.72	
For Up To 100, Add	9.05	
For >100 To 200, Add	4.69	
For >200 To 300, Add	2.35	



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0084	LF		#18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	29.07	
			For Up To 100, Add	15.90	
			For >100 To 200, Add	8.21	
			For >200 To 300, Add	4.10	
03 21 16 00-0085			Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
			Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0086	LF		#3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.92	
			For Up To 100, Add	0.72	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	
03 21 16 00-0087	LF		#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.59	
			For Up To 100, Add	1.25	
			For >100 To 200, Add	0.66	
			For >200 To 500, Add	0.26	
03 21 16 00-0088	LF		#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.43	
			For Up To 100, Add	1.94	
			For >100 To 200, Add	1.01	
			For >200 To 500, Add	0.40	
03 21 16 00-0089	LF		#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.39	
			For Up To 100, Add	2.75	
			For >100 To 200, Add	1.43	
			For >200 To 500, Add	0.57	
03 21 16 00-0090	LF		#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.94	
			For Up To 100, Add	0.74	
			For >100 To 200, Add	0.39	
			For >200 To 500, Add	0.15	
03 21 16 00-0091	LF		#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.63	
			For Up To 100, Add	1.29	
			For >100 To 200, Add	0.68	
			For >200 To 500, Add	0.27	
03 21 16 00-0092	LF		#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.49	
			For Up To 100, Add	2.00	
			For >100 To 200, Add	1.04	
			For >200 To 500, Add	0.42	
03 21 16 00-0093	LF		#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.47	
			For Up To 100, Add	2.83	
			For >100 To 200, Add	1.47	
			For >200 To 500, Add	0.59	
03 21 16 00-0094	LF		#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.97	
			For Up To 100, Add	0.77	
			For >100 To 200, Add	0.40	
			For >200 To 500, Add	0.16	
03 21 16 00-0095	LF		#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.68	
			For Up To 100, Add	1.34	
			For >100 To 200, Add	0.70	
			For >200 To 500, Add	0.28	
03 21 16 00-0096	LF		#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.57	
			For Up To 100, Add	2.08	
			For >100 To 200, Add	1.08	
			For >200 To 500, Add	0.43	
03 21 16 00-0097	LF		#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.59	
			For Up To 100, Add	2.95	
			For >100 To 200, Add	1.53	
			For >200 To 500, Add	0.61	
03 21 16 00-0098	LF		#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.76	
			For Up To 100, Add	3.04	
			For >100 To 200, Add	1.71	
			For >200 To 400, Add	0.82	
03 21 16 00-0099	LF		#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.04	
			For Up To 100, Add	3.91	
			For >100 To 200, Add	2.18	
			For >200 To 400, Add	1.05	
03 21 16 00-0100	LF		#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.52	
			For Up To 100, Add	4.92	
			For >100 To 200, Add	2.74	
			For >200 To 400, Add	1.32	
03 21 16 00-0101	LF		#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	9.33	
			For Up To 100, Add	4.97	
			For >100 To 200, Add	2.59	
			For >200 To 300, Add	1.29	
03 21 16 00-0102	LF		#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.30	
			For Up To 100, Add	6.07	
			For >100 To 200, Add	3.15	
			For >200 To 300, Add	1.58	
03 21 16 00-0103	LF		#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	15.92	
			For Up To 100, Add	8.63	
			For >100 To 200, Add	4.47	
			For >200 To 300, Add	2.24	
03 21 16 00-0104	LF		#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	27.70	
			For Up To 100, Add	15.17	
			For >100 To 200, Add	7.83	
			For >200 To 300, Add	3.91	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.71	
		For Up To 100, Add	3.07	
		For >100 To 200, Add	1.59	
		For >200 To 500, Add	0.64	
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.92	
		For Up To 100, Add	3.16	
		For >100 To 200, Add	1.77	
		For >200 To 400, Add	0.85	
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.25	
		For Up To 100, Add	4.07	
		For >100 To 200, Add	2.27	
		For >200 To 400, Add	1.10	
03 21 16 00-0108	LF	#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.79	
		For Up To 100, Add	5.12	
		For >100 To 200, Add	2.84	
		For >200 To 400, Add	1.38	
03 21 16 00-0109	LF	#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	9.67	
		For Up To 100, Add	5.17	
		For >100 To 200, Add	2.69	
		For >200 To 300, Add	1.35	
03 21 16 00-0110	LF	#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.72	
		For Up To 100, Add	6.32	
		For >100 To 200, Add	3.28	
		For >200 To 300, Add	1.64	
03 21 16 00-0111	LF	#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	16.52	
		For Up To 100, Add	8.99	
		For >100 To 200, Add	4.65	
		For >200 To 300, Add	2.33	
03 21 16 00-0112	LF	#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	28.78	
		For Up To 100, Add	15.82	
		For >100 To 200, Add	8.15	
		For >200 To 300, Add	4.08	
03 21 16 00-0113 Elevated Slabs, Epoxy Coated Steel Reinforcement Bar (03 21 16)				
Note: ASTM A-775 Epoxy Coated Steel.				
03 21 16 00-0114	LF	#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.88	
		For Up To 100, Add	0.70	
		For >100 To 200, Add	0.37	
		For >200 To 500, Add	0.15	
03 21 16 00-0115	LF	#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.52	
		For Up To 100, Add	1.23	
		For >100 To 200, Add	0.64	
		For >200 To 500, Add	0.26	
03 21 16 00-0116	LF	#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.32	
		For Up To 100, Add	1.89	
		For >100 To 200, Add	0.98	
		For >200 To 500, Add	0.39	
03 21 16 00-0117	LF	#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.26	
		For Up To 100, Add	2.70	
		For >100 To 200, Add	1.40	
		For >200 To 500, Add	0.56	
03 21 16 00-0118	LF	#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.90	
		For Up To 100, Add	0.72	
		For >100 To 200, Add	0.38	
		For >200 To 500, Add	0.15	
03 21 16 00-0119	LF	#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.56	
		For Up To 100, Add	1.27	
		For >100 To 200, Add	0.66	
		For >200 To 500, Add	0.26	
03 21 16 00-0120	LF	#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.38	
		For Up To 100, Add	1.95	
		For >100 To 200, Add	1.01	
		For >200 To 500, Add	0.41	
03 21 16 00-0121	LF	#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.34	
		For Up To 100, Add	2.78	
		For >100 To 200, Add	1.44	
		For >200 To 500, Add	0.57	
03 21 16 00-0122	LF	#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.93	
		For Up To 100, Add	0.75	
		For >100 To 200, Add	0.39	
		For >200 To 500, Add	0.16	
03 21 16 00-0123	LF	#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.61	
		For Up To 100, Add	1.32	
		For >100 To 200, Add	0.68	
		For >200 To 500, Add	0.27	
03 21 16 00-0124	LF	#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.46	
		For Up To 100, Add	2.03	
		For >100 To 200, Add	1.05	
		For >200 To 500, Add	0.42	
03 21 16 00-0125	LF	#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.46	
		For Up To 100, Add	2.90	
		For >100 To 200, Add	1.50	
		For >200 To 500, Add	0.60	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 21 16 00-0126	LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.60		
	For Up To 100, Add	2.99		
	For >100 To 200, Add	1.67		
	For >200 To 400, Add	0.80		
03 21 16 00-0127	LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.84		
	For Up To 100, Add	3.84		
	For >100 To 200, Add	2.13		
	For >200 To 400, Add	1.03		
03 21 16 00-0128	LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.30		
	For Up To 100, Add	4.84		
	For >100 To 200, Add	2.68		
	For >200 To 400, Add	1.30		
03 21 16 00-0129	LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	9.07		
	For Up To 100, Add	4.89		
	For >100 To 200, Add	2.54		
	For >200 To 300, Add	1.27		
03 21 16 00-0130	LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.99		
	For Up To 100, Add	5.98		
	For >100 To 200, Add	3.09		
	For >200 To 300, Add	1.55		
03 21 16 00-0131	LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	15.54		
	For Up To 100, Add	8.52		
	For >100 To 200, Add	4.39		
	For >200 To 300, Add	2.20		
03 21 16 00-0132	LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	27.10		
	For Up To 100, Add	14.99		
	For >100 To 200, Add	7.71		
	For >200 To 300, Add	3.85		
03 21 16 00-0133	LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.58		
	For Up To 100, Add	3.02		
	For >100 To 200, Add	1.56		
	For >200 To 500, Add	0.62		
03 21 16 00-0134	LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.76		
	For Up To 100, Add	3.11		
	For >100 To 200, Add	1.73		
	For >200 To 400, Add	0.84		
03 21 16 00-0135	LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.05		
	For Up To 100, Add	4.00		
	For >100 To 200, Add	2.22		
	For >200 To 400, Add	1.08		
03 21 16 00-0136	LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.57		
	For Up To 100, Add	5.04		
	For >100 To 200, Add	2.79		
	For >200 To 400, Add	1.36		
03 21 16 00-0137	LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	9.41		
	For Up To 100, Add	5.09		
	For >100 To 200, Add	2.64		
	For >200 To 300, Add	1.32		
03 21 16 00-0138	LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	11.41		
	For Up To 100, Add	6.23		
	For >100 To 200, Add	3.22		
	For >200 To 300, Add	1.61		
03 21 16 00-0139	LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	16.14		
	For Up To 100, Add	8.88		
	For >100 To 200, Add	4.57		
	For >200 To 300, Add	2.29		
03 21 16 00-0140	LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	28.18		
	For Up To 100, Add	15.64		
	For >100 To 200, Add	8.03		
	For >200 To 300, Add	4.02		
03 21 16 00-0141	Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)			
	Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0142	LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.86		
	For Up To 100, Add	0.69		
	For >100 To 200, Add	0.36		
	For >200 To 500, Add	0.14		
03 21 16 00-0143	LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.48		
	For Up To 100, Add	1.21		
	For >100 To 200, Add	0.63		
	For >200 To 500, Add	0.25		
03 21 16 00-0144	LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.26		
	For Up To 100, Add	1.87		
	For >100 To 200, Add	0.97		
	For >200 To 500, Add	0.39		
03 21 16 00-0145	LF #6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.19		
	For Up To 100, Add	2.67		
	For >100 To 200, Add	1.38		
	For >200 To 500, Add	0.55		
03 21 16 00-0146	LF #3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.88		
	For Up To 100, Add	0.71		
	For >100 To 200, Add	0.37		
	For >200 To 500, Add	0.15		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.52		
		For Up To 100, Add	1.25		
		For >100 To 200, Add	0.65		
		For >200 To 500, Add	0.26		
03 21 16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.32		
		For Up To 100, Add	1.93		
		For >100 To 200, Add	1.00		
		For >200 To 500, Add	0.40		
03 21 16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.27		
		For Up To 100, Add	2.75		
		For >100 To 200, Add	1.42		
		For >200 To 500, Add	0.57		
03 21 16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.91		
		For Up To 100, Add	0.74		
		For >100 To 200, Add	0.39		
		For >200 To 500, Add	0.15		
03 21 16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.57		
		For Up To 100, Add	1.30		
		For >100 To 200, Add	0.67		
		For >200 To 500, Add	0.27		
03 21 16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.40		
		For Up To 100, Add	2.01		
		For >100 To 200, Add	1.04		
		For >200 To 500, Add	0.42		
03 21 16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.39		
		For Up To 100, Add	2.87		
		For >100 To 200, Add	1.48		
		For >200 To 500, Add	0.59		
03 21 16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.51		
		For Up To 100, Add	2.95		
		For >100 To 200, Add	1.64		
		For >200 To 400, Add	0.80		
03 21 16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.75		
		For Up To 100, Add	3.81		
		For >100 To 200, Add	2.11		
		For >200 To 400, Add	1.02		
03 21 16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.19		
		For Up To 100, Add	4.80		
		For >100 To 200, Add	2.65		
		For >200 To 400, Add	1.29		
03 21 16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.94		
		For Up To 100, Add	4.85		
		For >100 To 200, Add	2.51		
		For >200 To 300, Add	1.26		
03 21 16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	10.85		
		For Up To 100, Add	5.93		
		For >100 To 200, Add	3.06		
		For >200 To 300, Add	1.53		
03 21 16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	15.35		
		For Up To 100, Add	8.46		
		For >100 To 200, Add	4.36		
		For >200 To 300, Add	2.18		
03 21 16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	26.80		
		For Up To 100, Add	14.90		
		For >100 To 200, Add	7.65		
		For >200 To 300, Add	3.82		
03 21 16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.51		
		For Up To 100, Add	2.99		
		For >100 To 200, Add	1.54		
		For >200 To 500, Add	0.62		
03 21 16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.67		
		For Up To 100, Add	3.07		
		For >100 To 200, Add	1.71		
		For >200 To 400, Add	0.83		
03 21 16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.96		
		For Up To 100, Add	3.97		
		For >100 To 200, Add	2.20		
		For >200 To 400, Add	1.07		
03 21 16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.46		
		For Up To 100, Add	5.00		
		For >100 To 200, Add	2.76		
		For >200 To 400, Add	1.34		
03 21 16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	9.28		
		For Up To 100, Add	5.06		
		For >100 To 200, Add	2.61		
		For >200 To 300, Add	1.31		
03 21 16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.27		
		For Up To 100, Add	6.19		
		For >100 To 200, Add	3.19		
		For >200 To 300, Add	1.59		
03 21 16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	15.95		
		For Up To 100, Add	8.82		
		For >100 To 200, Add	4.54		
		For >200 To 300, Add	2.27		



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

CS

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 21 16 00-0168	LF	#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	27.88		
		For Up To 100, Add	15.55		
		For >100 To 200, Add	7.97		
		For >200 To 300, Add	3.99		

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

Note: Excludes drilling. See CSI section 02 41 19 13-0277 for drilling in concrete.

03 21 16 00-0170	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.00		
		For Up To 12" Length, Deduct	-0.71		
		For >12" To <24" Length, Deduct	-0.36		
03 21 16 00-0171	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.19		
		For Up To 12" Length, Deduct	-1.08		
		For >12" To <24" Length, Deduct	-0.54		
03 21 16 00-0172	EA	5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	9.05		
		For Up To 12" Length, Deduct	-1.61		
		For >12" To <24" Length, Deduct	-0.80		
03 21 16 00-0173	EA	3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	11.33		
		For Up To 12" Length, Deduct	-2.14		
		For >12" To <24" Length, Deduct	-1.07		
03 21 16 00-0174	EA	7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	13.81		
		For Up To 12" Length, Deduct	-2.91		
		For >12" To <24" Length, Deduct	-1.46		
03 21 16 00-0175	EA	1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	16.17		
		For Up To 12" Length, Deduct	-3.58		
		For >12" To <24" Length, Deduct	-1.79		
03 21 16 00-0176	EA	1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	19.14		
		For Up To 12" Length, Deduct	-4.34		
		For >12" To <24" Length, Deduct	-2.17		
03 21 16 00-0177	EA	1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	23.07		
		For Up To 12" Length, Deduct	-5.26		
		For >12" To <24" Length, Deduct	-2.63		

03 22 Fabric and Grid Reinforcing (03 20)**03 22 11 Plain Steel Welded Wire Fabric Reinforcing** (03 22)

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

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

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

03 22 11 00-0002	SF	6" x 6" x #10, 21 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.88		
		For >5 Ton, Deduct	-0.13		
03 22 11 00-0003	SF	6" x 6" x #8, 30 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.00		
		For >5 Ton, Deduct	-0.15		
03 22 11 00-0004	SF	6" x 6" x #6, 42 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.14		
		For >5 Ton, Deduct	-0.17		
03 22 11 00-0005	SF	6" x 6" x #4, 58 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.35		
		For >5 Ton, Deduct	-0.19		
03 22 11 00-0006	SF	4" x 4" x #10, 31 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.05		
		For >5 Ton, Deduct	-0.15		
03 22 11 00-0007	SF	4" x 4" x #8, 44 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.18		
		For >5 Ton, Deduct	-0.17		
03 22 11 00-0008	SF	4" x 4" x #6, 62 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.50		
		For >5 Ton, Deduct	-0.21		
03 22 11 00-0009	SF	4" x 4" x #4, 85 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.75		
		For >5 Ton, Deduct	-0.24		
03 22 11 00-0010	SF	2" x 2" x #12, 37 Lb./CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	1.62		
		For >5 Ton, Deduct	-0.21		

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

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002	SF	6" x 6" x #10, 21 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.97		
		For >5 Ton, Deduct	-0.14		
03 22 13 00-0003	SF	6" x 6" x #8, 29 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.12		
		For >5 Ton, Deduct	-0.16		
03 22 13 00-0004	SF	6" x 6" x #6, 42 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.29		
		For >5 Ton, Deduct	-0.18		
03 22 13 00-0005	SF	6" x 6" x #4, 58 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.57		
		For >5 Ton, Deduct	-0.21		
03 22 13 00-0006	SF	4" x 4" x #10, 31 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.18		
		For >5 Ton, Deduct	-0.17		
03 22 13 00-0007	SF	4" x 4" x #8, 43 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.35		
		For >5 Ton, Deduct	-0.19		
03 22 13 00-0008	SF	4" x 4" x #6, 62 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.77		
		For >5 Ton, Deduct	-0.23		
03 22 13 00-0009	SF	4" x 4" x #4, 85 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.09		
		For >5 Ton, Deduct	-0.27		

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

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

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0011	SF	2" x 2" x #14, 21 Lb./CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....	3.44
		For >5 Ton, Deduct	-0.54

03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing ^(03 22)

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

Note: Includes bar chairs. Under 5 tons.

03 22 16 00-0002	SF	6" x 6" x #10, 21 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.96
		For >5 Ton, Deduct	-0.14
03 22 16 00-0003	SF	6" x 6" x #8, 29 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.10
		For >5 Ton, Deduct	-0.16
03 22 16 00-0004	SF	6" x 6" x #6, 42 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.27
		For >5 Ton, Deduct	-0.18
03 22 16 00-0005	SF	6" x 6" x #4, 58 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.54
		For >5 Ton, Deduct	-0.21
03 22 16 00-0006	SF	4" x 4" x #10, 31 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.17
		For >5 Ton, Deduct	-0.17
03 22 16 00-0007	SF	4" x 4" x #8, 43 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.33
		For >5 Ton, Deduct	-0.19
03 22 16 00-0008	SF	4" x 4" x #6, 62 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.74
		For >5 Ton, Deduct	-0.23
03 22 16 00-0009	SF	4" x 4" x #4, 85 Lb./CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.04
		For >5 Ton, Deduct	-0.27

03 30 Cast-In-Place Concrete ⁽⁰³⁾

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

03 30 53 Miscellaneous Cast-in-Place Concrete ^(03 30)

03 30 53 00-0001 Place Concrete Duct Bank ^(03 30 53)

03 30 53 00-0002	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank	219.30
		For 2,000 PSI Concrete, Deduct	-9.86
		For 2,500 PSI Concrete, Deduct	-4.93
		For 3,500 PSI Concrete, Add	9.13
		For 3,750 PSI Concrete, Add	12.41
		For 4,000 PSI Concrete, Add	15.70
		For 4,500 PSI Concrete, Add	18.26
		For 5,000 PSI Concrete, Add	20.81
		For 6,000 PSI Concrete, Add	49.29
		For 7,500 PSI Concrete, Add	122.40
		For White Cement Concrete, Add	21.91
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73
		For High Early Strength, Type 3 ASTM C150, Add	18.26
		For Lightweight Aggregate, ASTM C330, Add	63.89
		For Up To 20, Add	14.70
		For >20 To 50, Add	5.51
		For >100 To 200, Deduct	-4.39
		For >200 To 400, Deduct	-8.77
		For >400, Deduct	-13.16

03 30 53 00-0003 Place Concrete Thrust Blocks And Backfill ^(03 30 53)

03 30 53 00-0004	CY	Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	265.51
		For 2,000 PSI Concrete, Deduct	-9.86
		For 2,500 PSI Concrete, Deduct	-4.93
		For 3,500 PSI Concrete, Add	9.13
		For 3,750 PSI Concrete, Add	12.41
		For 4,000 PSI Concrete, Add	15.70
		For 4,500 PSI Concrete, Add	18.26
		For 5,000 PSI Concrete, Add	20.81
		For 6,000 PSI Concrete, Add	49.29
		For 7,500 PSI Concrete, Add	122.40
		For White Cement Concrete, Add	21.91
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73
		For High Early Strength, Type 3 ASTM C150, Add	18.26
		For Lightweight Aggregate, ASTM C330, Add	63.89

03 30 53 00-0005 Place Concrete Slurry ^(03 30 53)

03 30 53 00-0006	CY	Direct Chute, Place Two Sack Cement, Concrete Slurry	203.65
		Note: Two 94# sack cement per CY.	
03 30 53 00-0007	CY	Concrete Pump, Place Two Sack Cement, Concrete Slurry	196.33
		Note: Two 94# sack cement per CY. Excludes pumping equipment.	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
03 30 53 00-0008	Hand Mix And Place Concrete (03 30 53)			
03 30 53 00-0009	CF Hand Mix And Place 3,000 PSI Concrete.....		21.35	
	Note: For use where conventional equipment access is limited or when directed by the owner. Includes local aggregate, sand, bagged cement (Type I) and water.			
	For Up To 25 CF, Add		2.53	
	For 2,000 PSI Concrete, Deduct		-0.42	
	For 2,500 PSI Concrete, Deduct		-0.21	
	For 3,500 PSI Concrete, Add		0.39	
03 31	Structural Concrete (03 30)			
03 31 13	Heavyweight Structural Concrete (03 31)			
	Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0086 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.			
03 31 13 00-0001	Concrete Slab Assemblies (03 31 13)			
03 31 13 00-0002	3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)			
	Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.			
03 31 13 00-0003	SF 4" 3,000 PSI Slab On Grade Concrete Slab Assembly.....		8.63	
	For 2,000 PSI Concrete, Deduct		-0.24	
	For 2,500 PSI Concrete, Deduct		-0.12	
	For 3,500 PSI Concrete, Add		0.08	
	For 4,000 PSI Concrete, Add		0.28	
	For 4,500 PSI Concrete, Add		0.35	
	For 5,000 PSI Concrete, Add		0.40	
	For Reinforcing Rods Are At 18" On Center, Deduct		-0.60	
	For Reinforcing Rods Are At 24" On Center, Deduct		-0.89	
	For Up To 500, Add		3.41	
	For >500 To 1,000, Add		2.34	
	For >1,000 To 2,000, Add		1.28	
	For >2,000 To 5,000, Add		0.64	
	For >10,000 To 20,000, Deduct		-0.22	
	For >20,000 To 35,000, Deduct		-0.44	
	For >35,000 To 50,000, Deduct		-0.65	
	For >50,000 To 70,000, Deduct		-0.87	
	For >70,000, Deduct		-1.08	
03 31 13 00-0004	SF 5" 3,000 PSI Slab On Grade Concrete Slab Assembly.....		9.42	
	For 2,000 PSI Concrete, Deduct		-0.27	
	For 2,500 PSI Concrete, Deduct		-0.14	
	For 3,500 PSI Concrete, Add		0.10	
	For 4,000 PSI Concrete, Add		0.32	
	For 4,500 PSI Concrete, Add		0.40	
	For 5,000 PSI Concrete, Add		0.46	
	For Reinforcing Rods Are At 18" On Center, Deduct		-0.60	
	For Reinforcing Rods Are At 24" On Center, Deduct		-0.89	
	For Up To 500, Add		3.64	
	For >500 To 1,000, Add		2.51	
	For >1,000 To 2,000, Add		1.38	
	For >2,000 To 5,000, Add		0.69	
	For >10,000 To 20,000, Deduct		-0.25	
	For >20,000 To 35,000, Deduct		-0.49	
	For >35,000 To 50,000, Deduct		-0.72	
	For >50,000 To 70,000, Deduct		-0.96	
	For >70,000, Deduct		-1.19	
03 31 13 00-0005	SF 6" 3,000 PSI Slab On Grade Concrete Slab Assembly.....		10.57	
	For 2,000 PSI Concrete, Deduct		-0.32	
	For 2,500 PSI Concrete, Deduct		-0.16	
	For 3,500 PSI Concrete, Add		0.11	
	For 4,000 PSI Concrete, Add		0.37	
	For 4,500 PSI Concrete, Add		0.46	
	For 5,000 PSI Concrete, Add		0.54	
	For Reinforcing Rods Are At 18" On Center, Deduct		-0.60	
	For Reinforcing Rods Are At 24" On Center, Deduct		-0.89	
	For Up To 500, Add		3.99	
	For >500 To 1,000, Add		2.76	
	For >1,000 To 2,000, Add		1.53	
	For >2,000 To 5,000, Add		0.76	
	For >10,000 To 20,000, Deduct		-0.29	
	For >20,000 To 35,000, Deduct		-0.56	
	For >35,000 To 50,000, Deduct		-0.82	
	For >50,000 To 70,000, Deduct		-1.09	
	For >70,000, Deduct		-1.35	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 31 13 00-0006	SF 7" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	11.65		
	For 2,000 PSI Concrete, Deduct	-0.37		
	For 2,500 PSI Concrete, Deduct	-0.18		
	For 3,500 PSI Concrete, Add	0.13		
	For 4,000 PSI Concrete, Add	0.43		
	For 4,500 PSI Concrete, Add	0.53		
	For 5,000 PSI Concrete, Add	0.62		
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.60		
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.89		
	For Up To 500, Add	4.28		
	For >500 To 1,000, Add	2.97		
	For >1,000 To 2,000, Add	1.65		
	For >2,000 To 5,000, Add	0.83		
	For >10,000 To 20,000, Deduct	-0.34		
	For >20,000 To 35,000, Deduct	-0.63		
	For >35,000 To 50,000, Deduct	-0.92		
	For >50,000 To 70,000, Deduct	-1.21		
	For >70,000, Deduct	-1.50		
03 31 13 00-0007	SF 8" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	12.57		
	For 2,000 PSI Concrete, Deduct	-0.40		
	For 2,500 PSI Concrete, Deduct	-0.20		
	For 3,500 PSI Concrete, Add	0.14		
	For 4,000 PSI Concrete, Add	0.47		
	For 4,500 PSI Concrete, Add	0.59		
	For 5,000 PSI Concrete, Add	0.68		
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.60		
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.89		
	For Up To 500, Add	4.55		
	For >500 To 1,000, Add	3.16		
	For >1,000 To 2,000, Add	1.77		
	For >2,000 To 5,000, Add	0.88		
	For >10,000 To 20,000, Deduct	-0.37		
	For >20,000 To 35,000, Deduct	-0.69		
	For >35,000 To 50,000, Deduct	-1.00		
	For >50,000 To 70,000, Deduct	-1.32		
	For >70,000, Deduct	-1.63		
03 31 13 00-0008	SF 10" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	14.94		
	For 2,000 PSI Concrete, Deduct	-0.51		
	For 2,500 PSI Concrete, Deduct	-0.26		
	For 3,500 PSI Concrete, Add	0.18		
	For 4,000 PSI Concrete, Add	0.60		
	For 4,500 PSI Concrete, Add	0.75		
	For 5,000 PSI Concrete, Add	0.86		
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.60		
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.89		
	For Up To 500, Add	5.18		
	For >500 To 1,000, Add	3.61		
	For >1,000 To 2,000, Add	2.04		
	For >2,000 To 5,000, Add	1.02		
	For >10,000 To 20,000, Deduct	-0.47		
	For >20,000 To 35,000, Deduct	-0.85		
	For >35,000 To 50,000, Deduct	-1.22		
	For >50,000 To 70,000, Deduct	-1.59		
	For >70,000, Deduct	-1.97		
03 31 13 00-0009	SF 12" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	16.77		
	For 2,000 PSI Concrete, Deduct	-0.59		
	For 2,500 PSI Concrete, Deduct	-0.29		
	For 3,500 PSI Concrete, Add	0.21		
	For 4,000 PSI Concrete, Add	0.69		
	For 4,500 PSI Concrete, Add	0.86		
	For 5,000 PSI Concrete, Add	0.99		
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.60		
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.89		
	For Up To 500, Add	5.70		
	For >500 To 1,000, Add	3.98		
	For >1,000 To 2,000, Add	2.26		
	For >2,000 To 5,000, Add	1.13		
	For >10,000 To 20,000, Deduct	-0.55		
	For >20,000 To 35,000, Deduct	-0.96		
	For >35,000 To 50,000, Deduct	-1.38		
	For >50,000 To 70,000, Deduct	-1.80		
	For >70,000, Deduct	-2.22		
03 31 13 00-0010	Concrete Delivery And Placement (03 31 13) Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.			
03 31 13 00-0011	Place Concrete By Method Indicated (03 31 13 00-0010) Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.			
03 31 13 00-0012	Place Concrete Pile Caps (03 31 13 00-0011)			



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

MINOR		TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION		UNIT COST	UNIT COST
03 31 13 00-0013	CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	319.47	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	54.77	
	For >20 To 50, Add	20.54	
	For >100 To 200, Deduct	-6.39	
	For >200 To 400, Deduct	-12.78	
	For >400, Deduct	-19.17	
03 31 13 00-0014	CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	243.55	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	24.40	
	For >20 To 50, Add	9.15	
	For >100 To 200, Deduct	-4.87	
	For >200 To 400, Deduct	-9.74	
	For >400, Deduct	-14.61	
03 31 13 00-0015	CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps	255.85	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-10.68	
	For 2,500 PSI Concrete, Deduct	-5.34	
	For 3,500 PSI Concrete, Add	9.89	
	For 3,750 PSI Concrete, Add	13.45	
	For 4,000 PSI Concrete, Add	17.01	
	For 4,500 PSI Concrete, Add	19.78	
	For 5,000 PSI Concrete, Add	22.54	
	For 6,000 PSI Concrete, Add	53.40	
	For 7,500 PSI Concrete, Add	132.60	
	For White Cement Concrete, Add	23.73	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
	For High Early Strength, Type 3 ASTM C150, Add	19.78	
	For Lightweight Aggregate, ASTM C330, Add	69.22	
	For Up To 20, Add	23.24	
	For >20 To 50, Add	8.71	
	For >100 To 200, Deduct	-5.12	
	For >200 To 400, Deduct	-10.23	
	For >400, Deduct	-15.35	
03 31 13 00-0016	Place Concrete Continuous Footings (03 31 13 00-0011)	304.25	
03 31 13 00-0017	CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings	304.25	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	48.68	
	For >20 To 50, Add	18.26	
	For >100 To 200, Deduct	-6.09	
	For >200 To 400, Deduct	-12.17	
	For >400, Deduct	-18.26	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 31 13 00-0018	CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings	236.78		
	For 2,000 PSI Concrete, Deduct	-9.86		
	For 2,500 PSI Concrete, Deduct	-4.93		
	For 3,500 PSI Concrete, Add	9.13		
	For 3,750 PSI Concrete, Add	12.41		
	For 4,000 PSI Concrete, Add	15.70		
	For 4,500 PSI Concrete, Add	18.26		
	For 5,000 PSI Concrete, Add	20.81		
	For 6,000 PSI Concrete, Add	49.29		
	For 7,500 PSI Concrete, Add	122.40		
	For White Cement Concrete, Add	21.91		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73		
	For High Early Strength, Type 3 ASTM C150, Add	18.26		
	For Lightweight Aggregate, ASTM C330, Add	63.89		
	For Up To 20, Add	21.69		
	For >20 To 50, Add	8.13		
	For >100 To 200, Deduct	-4.74		
	For >200 To 400, Deduct	-9.47		
	For >400, Deduct	-14.21		
03 31 13 00-0019	CY Concrete Pump, Place 3,000 PSI Concrete Continuous Footings	249.40		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-10.68		
	For 2,500 PSI Concrete, Deduct	-5.34		
	For 3,500 PSI Concrete, Add	9.89		
	For 3,750 PSI Concrete, Add	13.45		
	For 4,000 PSI Concrete, Add	17.01		
	For 4,500 PSI Concrete, Add	19.78		
	For 5,000 PSI Concrete, Add	22.54		
	For 6,000 PSI Concrete, Add	53.40		
	For 7,500 PSI Concrete, Add	132.60		
	For White Cement Concrete, Add	23.73		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71		
	For High Early Strength, Type 3 ASTM C150, Add	19.78		
	For Lightweight Aggregate, ASTM C330, Add	69.22		
	For Up To 20, Add	20.66		
	For >20 To 50, Add	7.75		
	For >100 To 200, Deduct	-4.99		
	For >200 To 400, Deduct	-9.98		
	For >400, Deduct	-14.96		
03 31 13 00-0020	Place Concrete Spread Footings (03 31 13 00-0011)			
03 31 13 00-0021	CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	387.92		
	For 2,000 PSI Concrete, Deduct	-9.86		
	For 2,500 PSI Concrete, Deduct	-4.93		
	For 3,500 PSI Concrete, Add	9.13		
	For 3,750 PSI Concrete, Add	12.41		
	For 4,000 PSI Concrete, Add	15.70		
	For 4,500 PSI Concrete, Add	18.26		
	For 5,000 PSI Concrete, Add	20.81		
	For 6,000 PSI Concrete, Add	49.29		
	For 7,500 PSI Concrete, Add	122.40		
	For White Cement Concrete, Add	21.91		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73		
	For High Early Strength, Type 3 ASTM C150, Add	18.26		
	For Lightweight Aggregate, ASTM C330, Add	63.89		
	For Up To 20, Add	82.15		
	For >20 To 50, Add	30.81		
	For >100 To 200, Deduct	-7.76		
	For >200 To 400, Deduct	-15.52		
	For >400, Deduct	-23.28		
03 31 13 00-0022	CY Direct Chute, Place 3,000 PSI Concrete Spread Footings.....	274.05		
	For 2,000 PSI Concrete, Deduct	-9.86		
	For 2,500 PSI Concrete, Deduct	-4.93		
	For 3,500 PSI Concrete, Add	9.13		
	For 3,750 PSI Concrete, Add	12.41		
	For 4,000 PSI Concrete, Add	15.70		
	For 4,500 PSI Concrete, Add	18.26		
	For 5,000 PSI Concrete, Add	20.81		
	For 6,000 PSI Concrete, Add	49.29		
	For 7,500 PSI Concrete, Add	122.40		
	For White Cement Concrete, Add	21.91		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73		
	For High Early Strength, Type 3 ASTM C150, Add	18.26		
	For Lightweight Aggregate, ASTM C330, Add	63.89		
	For Up To 20, Add	36.60		
	For >20 To 50, Add	13.73		
	For >100 To 200, Deduct	-5.48		
	For >200 To 400, Deduct	-10.96		
	For >400, Deduct	-16.44		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0023	CY		Concrete Pump, Place 3,000 PSI Concrete Spread Footings Note: Excludes pumping equipment.	284.91	
			For 2,000 PSI Concrete, Deduct	-10.68	
			For 2,500 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Add	9.89	
			For 3,750 PSI Concrete, Add	13.45	
			For 4,000 PSI Concrete, Add	17.01	
			For 4,500 PSI Concrete, Add	19.78	
			For 5,000 PSI Concrete, Add	22.54	
			For 6,000 PSI Concrete, Add	53.40	
			For 7,500 PSI Concrete, Add	132.60	
			For White Cement Concrete, Add	23.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
			For High Early Strength, Type 3 ASTM C150, Add	19.78	
			For Lightweight Aggregate, ASTM C330, Add	69.22	
			For Up To 20, Add	34.86	
			For >20 To 50, Add	13.07	
			For >100 To 200, Deduct	-5.70	
			For >200 To 400, Deduct	-11.40	
			For >400, Deduct	-17.09	
03 31 13 00-0024			Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025	CY		Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	219.07	
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	14.61	
			For >20 To 50, Add	5.48	
			For >100 To 200, Deduct	-4.38	
			For >200 To 400, Deduct	-8.76	
			For >400, Deduct	-13.14	
03 31 13 00-0026	CY		Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	198.82	
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	6.51	
			For >20 To 50, Add	2.44	
			For >100 To 200, Deduct	-3.98	
			For >200 To 400, Deduct	-7.95	
			For >400, Deduct	-11.93	
03 31 13 00-0027	CY		Concrete Pump, Place 3,000 PSI Concrete Mat Foundation..... Note: Excludes pumping equipment.	211.32	
			For 2,000 PSI Concrete, Deduct	-10.68	
			For 2,500 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Add	9.89	
			For 3,750 PSI Concrete, Add	13.45	
			For 4,000 PSI Concrete, Add	17.01	
			For 4,500 PSI Concrete, Add	19.78	
			For 5,000 PSI Concrete, Add	22.54	
			For 6,000 PSI Concrete, Add	53.40	
			For 7,500 PSI Concrete, Add	132.60	
			For White Cement Concrete, Add	23.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
			For High Early Strength, Type 3 ASTM C150, Add	19.78	
			For Lightweight Aggregate, ASTM C330, Add	69.22	
			For Up To 20, Add	5.42	
			For >20 To 50, Add	2.03	
			For >100 To 200, Deduct	-4.23	
			For >200 To 400, Deduct	-8.45	
			For >400, Deduct	-12.68	
03 31 13 00-0028			Place Concrete Grade Beams (03 31 13 00-0011)		

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

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT

UNIT COST

DEMOLITION

UNIT COST

03 31 13 00-0029	CY Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	279.91	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	38.94	
	For >20 To 50, Add	14.60	
	For >100 To 200, Deduct	-5.60	
	For >200 To 400, Deduct	-11.20	
	For >400, Deduct	-16.79	
03 31 13 00-0030	CY Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	225.92	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	17.35	
	For >20 To 50, Add	6.51	
	For >100 To 200, Deduct	-4.52	
	For >200 To 400, Deduct	-9.04	
	For >400, Deduct	-13.56	
03 31 13 00-0031	CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	239.07	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-10.68	
	For 2,500 PSI Concrete, Deduct	-5.34	
	For 3,500 PSI Concrete, Add	9.89	
	For 3,750 PSI Concrete, Add	13.45	
	For 4,000 PSI Concrete, Add	17.01	
	For 4,500 PSI Concrete, Add	19.78	
	For 5,000 PSI Concrete, Add	22.54	
	For 6,000 PSI Concrete, Add	53.40	
	For 7,500 PSI Concrete, Add	132.60	
	For White Cement Concrete, Add	23.73	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
	For High Early Strength, Type 3 ASTM C150, Add	19.78	
	For Lightweight Aggregate, ASTM C330, Add	69.22	
	For Up To 20, Add	16.52	
	For >20 To 50, Add	6.20	
	For >100 To 200, Deduct	-4.78	
	For >200 To 400, Deduct	-9.56	
	For >400, Deduct	-14.34	

03 31 13 00-0032 Place Concrete Slab On Grade (03 31 13 00-0011)

03 31 13 00-0033	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	282.20	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	39.86	
	For >20 To 50, Add	14.95	
	For >100 To 200, Deduct	-5.64	
	For >200 To 400, Deduct	-11.29	
	For >400, Deduct	-16.93	



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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0034	CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade	258.17	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	30.25	
	For >20 To 50, Add	11.34	
	For >100 To 200, Deduct	-5.16	
	For >200 To 400, Deduct	-10.33	
	For >400, Deduct	-15.49	
03 31 13 00-0035	CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	226.95	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	17.76	
	For >20 To 50, Add	6.66	
	For >100 To 200, Deduct	-4.54	
	For >200 To 400, Deduct	-9.08	
	For >400, Deduct	-13.62	
03 31 13 00-0036	CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	216.23	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	13.47	
	For >20 To 50, Add	5.05	
	For >100 To 200, Deduct	-4.32	
	For >200 To 400, Deduct	-8.65	
	For >400, Deduct	-12.97	
03 31 13 00-0037	CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	234.76	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-10.68	
	For 2,500 PSI Concrete, Deduct	-5.34	
	For 3,500 PSI Concrete, Add	9.89	
	For 3,750 PSI Concrete, Add	13.45	
	For 4,000 PSI Concrete, Add	17.01	
	For 4,500 PSI Concrete, Add	19.78	
	For 5,000 PSI Concrete, Add	22.54	
	For 6,000 PSI Concrete, Add	53.40	
	For 7,500 PSI Concrete, Add	132.60	
	For White Cement Concrete, Add	23.73	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
	For High Early Strength, Type 3 ASTM C150, Add	19.78	
	For Lightweight Aggregate, ASTM C330, Add	69.22	
	For Up To 20, Add	14.80	
	For >20 To 50, Add	5.55	
	For >100 To 200, Deduct	-4.70	
	For >200 To 400, Deduct	-9.39	
	For >400, Deduct	-14.09	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade Note: Excludes pumping equipment.	225.83	
		For 2,000 PSI Concrete, Deduct	-10.68	
		For 2,500 PSI Concrete, Deduct	-5.34	
		For 3,500 PSI Concrete, Add	9.89	
		For 3,750 PSI Concrete, Add	13.45	
		For 4,000 PSI Concrete, Add	17.01	
		For 4,500 PSI Concrete, Add	19.78	
		For 5,000 PSI Concrete, Add	22.54	
		For 6,000 PSI Concrete, Add	53.40	
		For 7,500 PSI Concrete, Add	132.60	
		For White Cement Concrete, Add	23.73	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
		For High Early Strength, Type 3 ASTM C150, Add	19.78	
		For Lightweight Aggregate, ASTM C330, Add	69.22	
		For Up To 20, Add	11.23	
		For >20 To 50, Add	4.21	
		For >100 To 200, Deduct	-4.52	
		For >200 To 400, Deduct	-9.03	
		For >400, Deduct	-13.55	
03 31 13 00-0039		Place Concrete Stairs (03 31 13 00-0011)		
03 31 13 00-0040	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	630.91	
		For 2,000 PSI Concrete, Deduct	-9.86	
		For 2,500 PSI Concrete, Deduct	-4.93	
		For 3,500 PSI Concrete, Add	9.13	
		For 3,750 PSI Concrete, Add	12.41	
		For 4,000 PSI Concrete, Add	15.70	
		For 4,500 PSI Concrete, Add	18.26	
		For 5,000 PSI Concrete, Add	20.81	
		For 6,000 PSI Concrete, Add	49.29	
		For 7,500 PSI Concrete, Add	122.40	
		For White Cement Concrete, Add	21.91	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
		For High Early Strength, Type 3 ASTM C150, Add	18.26	
		For Lightweight Aggregate, ASTM C330, Add	63.89	
		For Up To 20, Add	179.34	
		For >20 To 50, Add	67.25	
		For >100 To 200, Deduct	-12.62	
		For >200 To 400, Deduct	-25.24	
		For >400, Deduct	-37.85	
03 31 13 00-0041	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	382.33	
		For 2,000 PSI Concrete, Deduct	-9.86	
		For 2,500 PSI Concrete, Deduct	-4.93	
		For 3,500 PSI Concrete, Add	9.13	
		For 3,750 PSI Concrete, Add	12.41	
		For 4,000 PSI Concrete, Add	15.70	
		For 4,500 PSI Concrete, Add	18.26	
		For 5,000 PSI Concrete, Add	20.81	
		For 6,000 PSI Concrete, Add	49.29	
		For 7,500 PSI Concrete, Add	122.40	
		For White Cement Concrete, Add	21.91	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
		For High Early Strength, Type 3 ASTM C150, Add	18.26	
		For Lightweight Aggregate, ASTM C330, Add	63.89	
		For Up To 20, Add	79.91	
		For >20 To 50, Add	29.97	
		For >100 To 200, Deduct	-7.65	
		For >200 To 400, Deduct	-15.29	
		For >400, Deduct	-22.94	
03 31 13 00-0042	CY	Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs..... Note: Excludes pumping equipment.	364.26	
		For 2,000 PSI Concrete, Deduct	-10.68	
		For 2,500 PSI Concrete, Deduct	-5.34	
		For 3,500 PSI Concrete, Add	9.89	
		For 3,750 PSI Concrete, Add	13.45	
		For 4,000 PSI Concrete, Add	17.01	
		For 4,500 PSI Concrete, Add	19.78	
		For 5,000 PSI Concrete, Add	22.54	
		For 6,000 PSI Concrete, Add	53.40	
		For 7,500 PSI Concrete, Add	132.60	
		For White Cement Concrete, Add	23.73	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
		For High Early Strength, Type 3 ASTM C150, Add	19.78	
		For Lightweight Aggregate, ASTM C330, Add	69.22	
		For Up To 20, Add	66.60	
		For >20 To 50, Add	24.98	
		For >100 To 200, Deduct	-7.29	
		For >200 To 400, Deduct	-14.57	
		For >400, Deduct	-21.86	
03 31 13 00-0043		Place Concrete Superstructure By Method Indicated (03 31 13 00-0010) See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0044		Place Elevated Concrete Beams (03 31 13 00-0043)		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 31 13 00-0045	CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams	425.96		
	For 2,000 PSI Concrete, Deduct	-9.86		
	For 2,500 PSI Concrete, Deduct	-4.93		
	For 3,500 PSI Concrete, Add	9.13		
	For 3,750 PSI Concrete, Add	12.41		
	For 4,000 PSI Concrete, Add	15.70		
	For 4,500 PSI Concrete, Add	18.26		
	For 5,000 PSI Concrete, Add	20.81		
	For 6,000 PSI Concrete, Add	49.29		
	For 7,500 PSI Concrete, Add	122.40		
	For White Cement Concrete, Add	21.91		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73		
	For High Early Strength, Type 3 ASTM C150, Add	18.26		
	For Lightweight Aggregate, ASTM C330, Add	63.89		
	For Up To 20, Add	97.36		
	For >20 To 50, Add	36.51		
	For >100 To 200, Deduct	-8.52		
	For >200 To 400, Deduct	-17.04		
	For >400, Deduct	-25.56		
03 31 13 00-0046	CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	301.04		
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct	-10.68		
	For 2,500 PSI Concrete, Deduct	-5.34		
	For 3,500 PSI Concrete, Add	9.89		
	For 3,750 PSI Concrete, Add	13.45		
	For 4,000 PSI Concrete, Add	17.01		
	For 4,500 PSI Concrete, Add	19.78		
	For 5,000 PSI Concrete, Add	22.54		
	For 6,000 PSI Concrete, Add	53.40		
	For 7,500 PSI Concrete, Add	132.60		
	For White Cement Concrete, Add	23.73		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71		
	For High Early Strength, Type 3 ASTM C150, Add	19.78		
	For Lightweight Aggregate, ASTM C330, Add	69.22		
	For Up To 20, Add	41.31		
	For >20 To 50, Add	15.49		
	For >100 To 200, Deduct	-6.02		
	For >200 To 400, Deduct	-12.04		
	For >400, Deduct	-18.06		
03 31 13 00-0047	Place Elevated Concrete Slab (03 31 13 00-0043)			
03 31 13 00-0048	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	297.15		
	For 2,000 PSI Concrete, Deduct	-9.86		
	For 2,500 PSI Concrete, Deduct	-4.93		
	For 3,500 PSI Concrete, Add	9.13		
	For 3,750 PSI Concrete, Add	12.41		
	For 4,000 PSI Concrete, Add	15.70		
	For 4,500 PSI Concrete, Add	18.26		
	For 5,000 PSI Concrete, Add	20.81		
	For 6,000 PSI Concrete, Add	49.29		
	For 7,500 PSI Concrete, Add	122.40		
	For White Cement Concrete, Add	21.91		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73		
	For High Early Strength, Type 3 ASTM C150, Add	18.26		
	For Lightweight Aggregate, ASTM C330, Add	63.89		
	For Up To 20, Add	45.84		
	For >20 To 50, Add	17.19		
	For >100 To 200, Deduct	-5.94		
	For >200 To 400, Deduct	-11.89		
	For >400, Deduct	-17.83		
03 31 13 00-0049	CY >6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	269.49		
	For 2,000 PSI Concrete, Deduct	-9.86		
	For 2,500 PSI Concrete, Deduct	-4.93		
	For 3,500 PSI Concrete, Add	9.13		
	For 3,750 PSI Concrete, Add	12.41		
	For 4,000 PSI Concrete, Add	15.70		
	For 4,500 PSI Concrete, Add	18.26		
	For 5,000 PSI Concrete, Add	20.81		
	For 6,000 PSI Concrete, Add	49.29		
	For 7,500 PSI Concrete, Add	122.40		
	For White Cement Concrete, Add	21.91		
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73		
	For High Early Strength, Type 3 ASTM C150, Add	18.26		
	For Lightweight Aggregate, ASTM C330, Add	63.89		
	For Up To 20, Add	34.78		
	For >20 To 50, Add	13.04		
	For >100 To 200, Deduct	-5.39		
	For >200 To 400, Deduct	-10.78		
	For >400, Deduct	-16.17		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0050	CY		Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	246.38	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.68	
			For 2,500 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Add	9.89	
			For 3,750 PSI Concrete, Add	13.45	
			For 4,000 PSI Concrete, Add	17.01	
			For 4,500 PSI Concrete, Add	19.78	
			For 5,000 PSI Concrete, Add	22.54	
			For 6,000 PSI Concrete, Add	53.40	
			For 7,500 PSI Concrete, Add	132.60	
			For White Cement Concrete, Add	23.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
			For High Early Strength, Type 3 ASTM C150, Add	19.78	
			For Lightweight Aggregate, ASTM C330, Add	69.22	
			For Up To 20, Add	19.45	
			For >20 To 50, Add	7.29	
			For >100 To 200, Deduct	-4.93	
			For >200 To 400, Deduct	-9.86	
			For >400, Deduct	-14.78	
03 31 13 00-0051	CY		>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	234.65	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.68	
			For 2,500 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Add	9.89	
			For 3,750 PSI Concrete, Add	13.45	
			For 4,000 PSI Concrete, Add	17.01	
			For 4,500 PSI Concrete, Add	19.78	
			For 5,000 PSI Concrete, Add	22.54	
			For 6,000 PSI Concrete, Add	53.40	
			For 7,500 PSI Concrete, Add	132.60	
			For White Cement Concrete, Add	23.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
			For High Early Strength, Type 3 ASTM C150, Add	19.78	
			For Lightweight Aggregate, ASTM C330, Add	69.22	
			For Up To 20, Add	14.76	
			For >20 To 50, Add	5.53	
			For >100 To 200, Deduct	-4.69	
			For >200 To 400, Deduct	-9.39	
			For >400, Deduct	-14.08	
03 31 13 00-0052			Place Concrete Columns (03 31 13 00-0043)		
03 31 13 00-0053	CY		12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	445.43	
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	105.15	
			For >20 To 50, Add	39.43	
			For >100 To 200, Deduct	-8.91	
			For >200 To 400, Deduct	-17.82	
			For >400, Deduct	-26.73	
03 31 13 00-0054	CY		18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	373.63	
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	76.43	
			For >20 To 50, Add	28.66	
			For >100 To 200, Deduct	-7.47	
			For >200 To 400, Deduct	-14.95	
			For >400, Deduct	-22.42	



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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0055	CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	322.27	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	55.89	
	For >20 To 50, Add	20.96	
	For >100 To 200, Deduct	-6.45	
	For >200 To 400, Deduct	-12.89	
	For >400, Deduct	-19.34	
03 31 13 00-0056	CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	299.39	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	46.74	
	For >20 To 50, Add	17.53	
	For >100 To 200, Deduct	-5.99	
	For >200 To 400, Deduct	-11.98	
	For >400, Deduct	-17.96	
03 31 13 00-0057	CY 12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	309.31	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-10.68	
	For 2,500 PSI Concrete, Deduct	-5.34	
	For 3,500 PSI Concrete, Add	9.89	
	For 3,750 PSI Concrete, Add	13.45	
	For 4,000 PSI Concrete, Add	17.01	
	For 4,500 PSI Concrete, Add	19.78	
	For 5,000 PSI Concrete, Add	22.54	
	For 6,000 PSI Concrete, Add	53.40	
	For 7,500 PSI Concrete, Add	132.60	
	For White Cement Concrete, Add	23.73	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
	For High Early Strength, Type 3 ASTM C150, Add	19.78	
	For Lightweight Aggregate, ASTM C330, Add	69.22	
	For Up To 20, Add	44.62	
	For >20 To 50, Add	16.73	
	For >100 To 200, Deduct	-6.19	
	For >200 To 400, Deduct	-12.37	
	For >400, Deduct	-18.56	
03 31 13 00-0058	CY 18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns	278.83	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-10.68	
	For 2,500 PSI Concrete, Deduct	-5.34	
	For 3,500 PSI Concrete, Add	9.89	
	For 3,750 PSI Concrete, Add	13.45	
	For 4,000 PSI Concrete, Add	17.01	
	For 4,500 PSI Concrete, Add	19.78	
	For 5,000 PSI Concrete, Add	22.54	
	For 6,000 PSI Concrete, Add	53.40	
	For 7,500 PSI Concrete, Add	132.60	
	For White Cement Concrete, Add	23.73	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
	For High Early Strength, Type 3 ASTM C150, Add	19.78	
	For Lightweight Aggregate, ASTM C330, Add	69.22	
	For Up To 20, Add	32.43	
	For >20 To 50, Add	12.16	
	For >100 To 200, Deduct	-5.58	
	For >200 To 400, Deduct	-11.15	
	For >400, Deduct	-16.73	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0059	CY		24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns 257.04 Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.68	
			For 2,500 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Add	9.89	
			For 3,750 PSI Concrete, Add	13.45	
			For 4,000 PSI Concrete, Add	17.01	
			For 4,500 PSI Concrete, Add	19.78	
			For 5,000 PSI Concrete, Add	22.54	
			For 6,000 PSI Concrete, Add	53.40	
			For 7,500 PSI Concrete, Add	132.60	
			For White Cement Concrete, Add	23.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
			For High Early Strength, Type 3 ASTM C150, Add	19.78	
			For Lightweight Aggregate, ASTM C330, Add	69.22	
			For Up To 20, Add	23.71	
			For >20 To 50, Add	8.89	
			For >100 To 200, Deduct	-5.14	
			For >200 To 400, Deduct	-10.28	
			For >400, Deduct	-15.42	
03 31 13 00-0060	CY		36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns 247.33 Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.68	
			For 2,500 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Add	9.89	
			For 3,750 PSI Concrete, Add	13.45	
			For 4,000 PSI Concrete, Add	17.01	
			For 4,500 PSI Concrete, Add	19.78	
			For 5,000 PSI Concrete, Add	22.54	
			For 6,000 PSI Concrete, Add	53.40	
			For 7,500 PSI Concrete, Add	132.60	
			For White Cement Concrete, Add	23.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
			For High Early Strength, Type 3 ASTM C150, Add	19.78	
			For Lightweight Aggregate, ASTM C330, Add	69.22	
			For Up To 20, Add	19.83	
			For >20 To 50, Add	7.44	
			For >100 To 200, Deduct	-4.95	
			For >200 To 400, Deduct	-9.89	
			For >400, Deduct	-14.84	
03 31 13 00-0061			Place Concrete Walls (03 31 13 00-0043)		
03 31 13 00-0062	CY		Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls 429.01		
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	98.58	
			For >20 To 50, Add	36.97	
			For >100 To 200, Deduct	-8.58	
			For >200 To 400, Deduct	-17.16	
			For >400, Deduct	-25.74	
03 31 13 00-0063	CY		12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls 408.57		
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	90.41	
			For >20 To 50, Add	33.90	
			For >100 To 200, Deduct	-8.17	
			For >200 To 400, Deduct	-16.34	
			For >400, Deduct	-24.51	



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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0064	CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	355.06	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	69.00	
	For >20 To 50, Add	25.88	
	For >100 To 200, Deduct	-7.10	
	For >200 To 400, Deduct	-14.20	
	For >400, Deduct	-21.30	
03 31 13 00-0065	CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	292.35	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	43.92	
	For >20 To 50, Add	16.47	
	For >100 To 200, Deduct	-5.85	
	For >200 To 400, Deduct	-11.69	
	For >400, Deduct	-17.54	
03 31 13 00-0066	CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	270.39	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	35.14	
	For >20 To 50, Add	13.18	
	For >100 To 200, Deduct	-5.41	
	For >200 To 400, Deduct	-10.82	
	For >400, Deduct	-16.22	
03 31 13 00-0067	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	259.41	
	For 2,000 PSI Concrete, Deduct	-9.86	
	For 2,500 PSI Concrete, Deduct	-4.93	
	For 3,500 PSI Concrete, Add	9.13	
	For 3,750 PSI Concrete, Add	12.41	
	For 4,000 PSI Concrete, Add	15.70	
	For 4,500 PSI Concrete, Add	18.26	
	For 5,000 PSI Concrete, Add	20.81	
	For 6,000 PSI Concrete, Add	49.29	
	For 7,500 PSI Concrete, Add	122.40	
	For White Cement Concrete, Add	21.91	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
	For High Early Strength, Type 3 ASTM C150, Add	18.26	
	For Lightweight Aggregate, ASTM C330, Add	63.89	
	For Up To 20, Add	30.74	
	For >20 To 50, Add	11.53	
	For >100 To 200, Deduct	-5.19	
	For >200 To 400, Deduct	-10.38	
	For >400, Deduct	-15.56	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
03 31 13 00-0068	CY	Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls Note: Excludes pumping equipment.	302.32	
		For 2,000 PSI Concrete, Deduct	-10.68	
		For 2,500 PSI Concrete, Deduct	-5.34	
		For 3,500 PSI Concrete, Add	9.89	
		For 3,750 PSI Concrete, Add	13.45	
		For 4,000 PSI Concrete, Add	17.01	
		For 4,500 PSI Concrete, Add	19.78	
		For 5,000 PSI Concrete, Add	22.54	
		For 6,000 PSI Concrete, Add	53.40	
		For 7,500 PSI Concrete, Add	132.60	
		For White Cement Concrete, Add	23.73	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
		For High Early Strength, Type 3 ASTM C150, Add	19.78	
		For Lightweight Aggregate, ASTM C330, Add	69.22	
		For Up To 20, Add	41.82	
		For >20 To 50, Add	15.68	
		For >100 To 200, Deduct	-6.05	
		For >200 To 400, Deduct	-12.09	
		For >400, Deduct	-18.14	
03 31 13 00-0069	CY	12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls Note: Excludes pumping equipment.	281.41	
		For 2,000 PSI Concrete, Deduct	-10.68	
		For 2,500 PSI Concrete, Deduct	-5.34	
		For 3,500 PSI Concrete, Add	9.89	
		For 3,750 PSI Concrete, Add	13.45	
		For 4,000 PSI Concrete, Add	17.01	
		For 4,500 PSI Concrete, Add	19.78	
		For 5,000 PSI Concrete, Add	22.54	
		For 6,000 PSI Concrete, Add	53.40	
		For 7,500 PSI Concrete, Add	132.60	
		For White Cement Concrete, Add	23.73	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
		For High Early Strength, Type 3 ASTM C150, Add	19.78	
		For Lightweight Aggregate, ASTM C330, Add	69.22	
		For Up To 20, Add	33.46	
		For >20 To 50, Add	12.55	
		For >100 To 200, Deduct	-5.63	
		For >200 To 400, Deduct	-11.26	
		For >400, Deduct	-16.88	
03 31 13 00-0070	CY	15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls Note: Excludes pumping equipment.	270.96	
		For 2,000 PSI Concrete, Deduct	-10.68	
		For 2,500 PSI Concrete, Deduct	-5.34	
		For 3,500 PSI Concrete, Add	9.89	
		For 3,750 PSI Concrete, Add	13.45	
		For 4,000 PSI Concrete, Add	17.01	
		For 4,500 PSI Concrete, Add	19.78	
		For 5,000 PSI Concrete, Add	22.54	
		For 6,000 PSI Concrete, Add	53.40	
		For 7,500 PSI Concrete, Add	132.60	
		For White Cement Concrete, Add	23.73	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
		For High Early Strength, Type 3 ASTM C150, Add	19.78	
		For Lightweight Aggregate, ASTM C330, Add	69.22	
		For Up To 20, Add	29.28	
		For >20 To 50, Add	10.98	
		For >100 To 200, Deduct	-5.42	
		For >200 To 400, Deduct	-10.84	
		For >400, Deduct	-16.26	
03 31 13 00-0071		Place Elevated Concrete Stairs (03 31 13 00-0043)	680.79	
03 31 13 00-0072	CY	Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs.....	680.79	
		For 2,000 PSI Concrete, Deduct	-9.86	
		For 2,500 PSI Concrete, Deduct	-4.93	
		For 3,500 PSI Concrete, Add	9.13	
		For 3,750 PSI Concrete, Add	12.41	
		For 4,000 PSI Concrete, Add	15.70	
		For 4,500 PSI Concrete, Add	18.26	
		For 5,000 PSI Concrete, Add	20.81	
		For 6,000 PSI Concrete, Add	49.29	
		For 7,500 PSI Concrete, Add	122.40	
		For White Cement Concrete, Add	21.91	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
		For High Early Strength, Type 3 ASTM C150, Add	18.26	
		For Lightweight Aggregate, ASTM C330, Add	63.89	
		For Up To 20, Add	199.30	
		For >20 To 50, Add	74.74	
		For >100 To 200, Deduct	-13.62	
		For >200 To 400, Deduct	-27.23	
		For >400, Deduct	-40.85	



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

03

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0073	CY		Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	404.52	
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	88.79	
			For >20 To 50, Add	33.30	
			For >100 To 200, Deduct	-8.09	
			For >200 To 400, Deduct	-16.18	
			For >400, Deduct	-24.27	
03 31 13 00-0074	CY		Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	382.74	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-10.68	
			For 2,500 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Add	9.89	
			For 3,750 PSI Concrete, Add	13.45	
			For 4,000 PSI Concrete, Add	17.01	
			For 4,500 PSI Concrete, Add	19.78	
			For 5,000 PSI Concrete, Add	22.54	
			For 6,000 PSI Concrete, Add	53.40	
			For 7,500 PSI Concrete, Add	132.60	
			For White Cement Concrete, Add	23.73	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
			For High Early Strength, Type 3 ASTM C150, Add	19.78	
			For Lightweight Aggregate, ASTM C330, Add	69.22	
			For Up To 20, Add	73.99	
			For >20 To 50, Add	27.75	
			For >100 To 200, Deduct	-7.65	
			For >200 To 400, Deduct	-15.31	
			For >400, Deduct	-22.96	
03 31 13 00-0075			Place Concrete Coping (03 31 13 00-0043)		
03 31 13 00-0076	CY		Crane And Bucket, Place 3,000 PSI Concrete Coping	698.01	
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	206.18	
			For >20 To 50, Add	77.32	
			For >100 To 200, Deduct	-13.96	
			For >200 To 400, Deduct	-27.92	
			For >400, Deduct	-41.88	
03 31 13 00-0077	CY		Direct Chute, Place 3,000 PSI Concrete Coping	403.03	
			For 2,000 PSI Concrete, Deduct	-9.86	
			For 2,500 PSI Concrete, Deduct	-4.93	
			For 3,500 PSI Concrete, Add	9.13	
			For 3,750 PSI Concrete, Add	12.41	
			For 4,000 PSI Concrete, Add	15.70	
			For 4,500 PSI Concrete, Add	18.26	
			For 5,000 PSI Concrete, Add	20.81	
			For 6,000 PSI Concrete, Add	49.29	
			For 7,500 PSI Concrete, Add	122.40	
			For White Cement Concrete, Add	21.91	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.73	
			For High Early Strength, Type 3 ASTM C150, Add	18.26	
			For Lightweight Aggregate, ASTM C330, Add	63.89	
			For Up To 20, Add	88.19	
			For >20 To 50, Add	33.07	
			For >100 To 200, Deduct	-8.06	
			For >200 To 400, Deduct	-16.12	
			For >400, Deduct	-24.18	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
03 31 13 00-0078	CY	Concrete Pump, Place 3,000 PSI Concrete Coping Note: Excludes pumping equipment.	531.71	
		For 2,000 PSI Concrete, Deduct	-10.68	
		For 2,500 PSI Concrete, Deduct	-5.34	
		For 3,500 PSI Concrete, Add	9.89	
		For 3,750 PSI Concrete, Add	13.45	
		For 4,000 PSI Concrete, Add	17.01	
		For 4,500 PSI Concrete, Add	19.78	
		For 5,000 PSI Concrete, Add	22.54	
		For 6,000 PSI Concrete, Add	53.40	
		For 7,500 PSI Concrete, Add	132.60	
		For White Cement Concrete, Add	23.73	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	25.71	
		For High Early Strength, Type 3 ASTM C150, Add	19.78	
		For Lightweight Aggregate, ASTM C330, Add	69.22	
		For Up To 20, Add	133.58	
		For >20 To 50, Add	50.09	
		For >100 To 200, Deduct	-10.63	
		For >200 To 400, Deduct	-21.27	
		For >400, Deduct	-31.90	
03 31 13 00-0079		Concrete Carts (03 31 13 00-0010) Note: Used to place concrete where necessary.		
03 31 13 00-0080	CY	50' Haul, Non-Motorized, Concrete Buggy.....	25.91	
03 31 13 00-0081	CY	150' Haul, Non-Motorized, Concrete Buggy.....	34.70	
03 31 13 00-0082	CY	250' Haul, Non-Motorized, Concrete Buggy.....	46.27	
03 31 13 00-0083	CY	50' Haul, Motorized, Concrete Buggy.....	11.68	
03 31 13 00-0084	CY	150' Haul, Motorized, Concrete Buggy.....	15.67	
03 31 13 00-0085	CY	250' Haul, Motorized, Concrete Buggy.....	20.88	
03 31 13 00-0086		Delivery Fee For Small Concrete Purchases (Short Load) (03 31 13)		
03 31 13 00-0087	CY	Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY..... Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.	27.00	
03 31 13 00-0088		Delivery Fee For Concrete, Per Truck Load (03 31 13)		
03 31 13 00-0089	EA	Concrete Delivery Fee, Per Truck..... Note: To be added to all concrete leaving concrete yard	40.00	
03 31 13 00-0090		Equipment Pads (03 31 13)		
03 31 13 00-0091		Small Concrete Equipment Housekeeping Pad Assemblies (03 31 13 00-0090) Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0092	SF	4" Equipment Pad With Welded Wire Reinforcement Assembly.....	20.69	
		For >5 To 20 Pads, Deduct	-2.58	
		For >20 To 50 Pads, Deduct	-4.72	
		For >50 Pads, Deduct	-6.87	
03 31 13 00-0093	SF	4" Equipment Pad With Rebar Assembly.....	26.79	
		For >5 To 20 Pads, Deduct	-2.97	
		For >20 To 50 Pads, Deduct	-5.45	
		For >50 Pads, Deduct	-7.92	
03 31 13 00-0094	SF	6" Equipment Pad With Rebar Assembly.....	33.45	
		For >5 To 20 Pads, Deduct	-3.73	
		For >20 To 50 Pads, Deduct	-6.84	
		For >50 Pads, Deduct	-9.96	
03 31 13 00-0095	SF	8" Equipment Pad With Rebar Assembly.....	41.76	
		For >5 To 20 Pads, Deduct	-4.74	
		For >20 To 50 Pads, Deduct	-8.70	
		For >50 Pads, Deduct	-12.65	
03 31 16		Lightweight Structural Concrete (03 31)		
03 31 16 00-0001		Low Density Cellular / Foam Concrete Fill (03 31 16)		
03 31 16 00-0002	CY	Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range.....	321.39	
03 35		Concrete Finishing (03 30)		
03 35 13		High-Tolerance Concrete Floor Finishing (03 35)		
03 35 13 00-0001		Floor Finishes (03 35 13) Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002	SF	Screed, Concrete Floor Finish.....	1.13	
		For Up To 100, Add	2.26	
		For >100 To 250, Add	0.57	
		For >250 To 500, Add	0.28	
		For >5,000 To 10,000, Deduct	-0.06	
		For >10,000, Deduct	-0.11	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 35 13 00-0003	SF Darby, Concrete Floor Finish	1.36		
	For Up To 100, Add	2.72		
	For >100 To 250, Add	0.68		
	For >250 To 500, Add	0.34		
	For >5,000 To 10,000, Deduct	-0.07		
	For >10,000, Deduct	-0.14		
03 35 13 00-0004	SF Broom, Concrete Floor Finish	1.50		
	For Up To 100, Add	3.00		
	For >100 To 250, Add	0.75		
	For >250 To 500, Add	0.38		
	For >5,000 To 10,000, Deduct	-0.08		
	For >10,000, Deduct	-0.15		
03 35 13 00-0005	SF Final Float, Concrete Floor Finish	1.73		
	For Up To 100, Add	3.46		
	For >100 To 250, Add	0.87		
	For >250 To 500, Add	0.43		
	For >5,000 To 10,000, Deduct	-0.09		
	For >10,000, Deduct	-0.17		
03 35 13 00-0006	SF Steel Trowel, Concrete Floor Finish	1.96		
	For Up To 100, Add	3.92		
	For >100 To 250, Add	0.98		
	For >250 To 500, Add	0.49		
	For >5,000 To 10,000, Deduct	-0.10		
	For >10,000, Deduct	-0.20		
03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)				
03 35 16 00-0001	Shake On Floor Hardeners (03 35 16)			
03 35 16 00-0002	SF 0.3 Lb./SF, Metallic, Shake On Floor Hardener	1.39		
03 35 16 00-0003	SF 0.65 Lb./SF, Metallic, Shake On Floor Hardener	2.12		
03 35 16 00-0004	SF 0.3 Lb./SF, Non-Metallic, Shake On Floor Hardener	1.32		
03 35 16 00-0005	SF 0.65 Lb./SF, Non-Metallic, Shake On Floor Hardener	1.58		
03 35 19 Colored Concrete Finishing (03 35)				
03 35 19 00-0001	Concrete Surface Treatments (03 35 19)			
03 35 19 00-0002	SF Acrylic Latex Bonding Agent	0.57		
03 35 19 00-0003	SF Epoxy Resin Bonding Agent	3.39		
03 35 19 00-0004	SF Clear Acrylic Sealer, Hardener And Dustproofers	0.40		
03 35 19 00-0005	SF Colored Acrylic Sealer, Hardener And Dustproofers	0.42		
03 35 23 Exposed Aggregate Concrete Finishing (03 35)				
03 35 23 00-0001	Exposed Aggregate, Concrete Finish (03 35 23)			
03 35 23 00-0002	SF Exposed Aggregate, Concrete Floor Finish	4.19		
03 35 26 Grooved Concrete Surface Finishing (03 35)				
03 35 26 00-0001	Ramp, Grooved Concrete Surface Finishing (03 35 26)			
03 35 26 00-0002	SF Ramp, Grooved Concrete Surface Finishing	4.81		
03 35 29 Tooled Concrete Finishing (03 35)				
03 35 29 00-0001	Solid Board Concrete Finish (03 35 29)			
03 35 29 00-0002	SF Solid Board Concrete, Non-Uniform Finish, 1 Use, Add To Formwork	19.05		
03 35 29 00-0003	Marblecrete Finishes (03 35 29)			
03 35 29 00-0004	SF 2" Thick Marblecrete And Finish	44.27		
03 35 29 00-0005	SF 4" Thick Marblecrete And Finish	59.37		
03 35 33 Stamped Concrete Finishing (03 35)				
03 35 33 00-0001	Stamped Concrete Finishes (03 35 33)			
03 35 33 00-0002	SF Up To 2,500 SF Stamped Concrete Finish	4.52		
03 35 33 00-0003	SF >2,500 To 10,000 SF Stamped Concrete Finish	4.10		
03 35 33 00-0004	SF >10,000 SF Stamped Concrete Finish	3.92		
03 35 63 Slip-Resistant Floor Finishing (03 35)				
03 35 63 00-0001	Slip-Resistant Floor Finishing (03 35 63)			

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 63 00-0002	SF		Aluminum Oxide Abrasive Floor Finish, 0.25 Lb./SF	1.73	
			For Up To 100, Add	2.16	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.27	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000, Deduct	-0.11	
03 35 63 00-0003	SF		Silicone Carbide Abrasive Floor Finish 0.25 Lb./SF	1.58	
			For Up To 100, Add	2.16	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.27	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000, Deduct	-0.11	
03 35 66 Acid Etch Floor Finishing (03 35)					
03 35 66 00-0001			Acid Etch Floor (03 35 66)		
03 35 66 00-0002	SF		Concrete Floor Finishes, Etch With Acid And Rinse	1.10	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000, Deduct	-0.05	
03 35 83 Concrete Wall Finishing (03 35)					
03 35 83 00-0001			Wall Finishes (03 35 83)		
03 35 83 00-0002	SF		Burlap Rub With Grout, New Concrete Wall Finishes	2.00	
			For Up To 100, Add	3.78	
			For >100 To 250, Add	0.95	
			For >250 To 500, Add	0.47	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000, Deduct	-0.19	
03 35 83 00-0003	SF		1/16" Float Finish, New Concrete Wall Finishes	2.98	
			For Up To 100, Add	5.64	
			For >100 To 250, Add	1.41	
			For >250 To 500, Add	0.71	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000, Deduct	-0.28	
03 35 83 00-0004	SF		Etch With Acid And Rinse, New Concrete Wall Finishes	1.20	
			For Up To 100, Add	1.24	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.16	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000, Deduct	-0.06	
03 35 83 00-0005	SF		Bush Hammer Green Concrete, New Concrete Wall Finishes	6.03	
			For Up To 100, Add	11.96	
			For >100 To 250, Add	2.99	
			For >250 To 500, Add	1.50	
			For >5,000 To 10,000, Deduct	-0.30	
			For >10,000, Deduct	-0.60	
03 35 83 00-0006	SF		Bush Hammer Cured Concrete, New Concrete Wall Finishes	9.36	
			For Up To 100, Add	18.50	
			For >100 To 250, Add	4.63	
			For >250 To 500, Add	2.31	
			For >5,000 To 10,000, Deduct	-0.46	
			For >10,000, Deduct	-0.93	
03 35 83 00-0007	SF		Break Ties And Patch, New Concrete Wall Finishes	1.14	
			For Up To 100, Add	2.02	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.25	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000, Deduct	-0.10	
03 35 83 00-0008	SF		Carborundum Dry Rub, New Concrete Wall Finishes	3.90	
			For Up To 100, Add	7.54	
			For >100 To 250, Add	1.89	
			For >250 To 500, Add	0.94	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000, Deduct	-0.38	
03 35 83 00-0009	SF		Carborundum Wet Rub, New Concrete Wall Finishes	5.94	
			For Up To 100, Add	11.62	
			For >100 To 250, Add	2.91	
			For >250 To 500, Add	1.45	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000, Deduct	-0.58	
03 35 83 00-0010	SF		Up To 1/4" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	5.91	
			Note: 4.5 Lb. of sand or abrasive media material per SF		
			For Up To 100, Add	9.52	
			For >100 To 250, Add	2.38	
			For >250 To 500, Add	1.19	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000, Deduct	-0.48	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0011	SF		>1/4" To 1/2" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	11.81	
			Note: 9 Lb. of sand abrasive media material per SF		
			For Up To 100, Add	19.04	
			For >100 To 250, Add	4.76	
			For >250 To 500, Add	2.38	
			For >5,000 To 10,000, Deduct	-0.48	
			For >10,000, Deduct	-0.95	

03 37 Specialty Placed Concrete (03 30)

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

03 37 13 Shotcrete (03 37)

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

03 37 13 00-0002	SF	1" Thick Shotcrete, Fiber Reinforced	3.69
		For Up To 25, Add	0.70
		For >25 To 50, Add	0.40
		For >50 To 150, Add	0.17
03 37 13 00-0003	SF	2" Thick Shotcrete, Fiber Reinforced	6.93
		For Up To 25, Add	1.29
		For >25 To 50, Add	0.74
		For >50 To 150, Add	0.30
03 37 13 00-0004	SF	3" Thick Shotcrete, Fiber Reinforced	9.80
		For Up To 25, Add	1.78
		For >25 To 50, Add	1.02
		For >50 To 150, Add	0.40
03 37 13 00-0005	SF	4" Thick Shotcrete, Fiber Reinforced	12.35
		For Up To 25, Add	2.20
		For >25 To 50, Add	1.26
		For >50 To 150, Add	0.48
03 37 13 00-0006	SF	6" Thick Shotcrete, Fiber Reinforced	16.70
		For Up To 25, Add	2.84
		For >25 To 50, Add	1.61
		For >50 To 150, Add	0.58

03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed (03 37 13)

See CSI section 03 22 11 00-0001 for wire mesh reinforcing.

03 37 13 00-0008	SF	1" Thick Gunite (Dry Mix Shotcrete), Sprayed	4.05
		For Radius Or Irregular Surface, Add	1.22
		For Up To 25, Add	0.86
		For >25 To 50, Add	0.51
		For >50 To 150, Add	0.23
03 37 13 00-0009	SF	2" Thick Gunite (Dry Mix Shotcrete), Sprayed	7.46
		For Radius Or Irregular Surface, Add	2.18
		For Up To 25, Add	1.56
		For >25 To 50, Add	0.92
		For >50 To 150, Add	0.41
03 37 13 00-0010	SF	3" Thick Gunite (Dry Mix Shotcrete), Sprayed	10.37
		For Radius Or Irregular Surface, Add	2.94
		For Up To 25, Add	2.14
		For >25 To 50, Add	1.25
		For >50 To 150, Add	0.55
03 37 13 00-0011	SF	4" Thick Gunite (Dry Mix Shotcrete), Sprayed	12.86
		For Radius Or Irregular Surface, Add	3.52
		For Up To 25, Add	2.61
		For >25 To 50, Add	1.52
		For >50 To 150, Add	0.66
03 37 13 00-0012	SF	5" Thick Gunite (Dry Mix Shotcrete), Sprayed	14.97
		For Radius Or Irregular Surface, Add	3.96
		For Up To 25, Add	2.98
		For >25 To 50, Add	1.74
		For >50 To 150, Add	0.74
03 37 13 00-0013	SF	6" Thick Gunite (Dry Mix Shotcrete), Sprayed	16.78
		For Radius Or Irregular Surface, Add	4.28
		For Up To 25, Add	3.28
		For >25 To 50, Add	1.91
		For >50 To 150, Add	0.80
03 37 13 00-0014	SF	8" Thick Gunite (Dry Mix Shotcrete), Sprayed	20.93
		For Radius Or Irregular Surface, Add	5.14
		For Up To 25, Add	4.02
		For >25 To 50, Add	2.33
		For >50 To 150, Add	0.96
03 37 13 00-0015	SF	10" Thick Gunite (Dry Mix Shotcrete), Sprayed	24.56
		For Radius Or Irregular Surface, Add	5.78
		For Up To 25, Add	4.62
		For >25 To 50, Add	2.67
		For >50 To 150, Add	1.08
03 37 13 00-0016	SF	12" Thick Gunite (Dry Mix Shotcrete), Sprayed	27.74
		For Radius Or Irregular Surface, Add	6.24
		For Up To 25, Add	5.11
		For >25 To 50, Add	2.95
		For >50 To 150, Add	1.17

03 Concrete**03 30 Cast-In-Place Concrete****03 37 Specialty Placed Concrete**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**03 37 16 Pumped Concrete** (03 37)**03 37 16 00-0001 Concrete Pumping With Boom Truck** (03 37 16)

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

03 37 16 00-0002	HR	55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	249.87	
03 37 16 00-0003	HR	70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	269.35	
		For Each CY Of Concrete Pumped, Add	1.25	
03 37 16 00-0004	HR	90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	339.70	
		For Each CY Of Concrete Pumped, Add	1.50	
03 37 16 00-0005	HR	105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	383.50	
		For Each CY Of Concrete Pumped, Add	1.50	
03 37 16 00-0006	HR	120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	428.70	
		For Each CY Of Concrete Pumped, Add	1.75	
03 37 16 00-0007	HR	135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	524.42	
03 37 16 00-0008	HR	148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	581.53	
03 37 16 00-0009	HR	170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	719.86	
		For Each CY Of Concrete Pumped, Add	2.25	
03 37 16 00-0010	HR	35 CY/HR, 66 HP Trailer Mounted Concrete Pump	167.37	
		Note: Includes hoses		

03 39 Concrete Curing (03 30)**03 39 13 Water Concrete Curing** (03 39)**03 39 13 00-0001 Water Concrete Curing** (03 39 13)

03 39 13 00-0002	SF	Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.37	
		Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.		

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

03 39 23 23-0002	CSF	Warm Weather Concrete Curing Blankets	35.38	

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

03 39 23 23-0004	CSF	Electric, Cold Weather Concrete Curing Blanket	183.57	
03 39 23 23-0005	CSF	Non-Electric, Cold Weather Concrete Curing Blanket	39.38	

03 40 Precast Concrete (03)

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

03 41 Precast Structural Concrete (03 40)**03 41 16 Precast Concrete Slabs** (03 41)**03 41 16 00-0001 Flat Floor Slab/Floor Plank** (03 41 16)**03 41 16 00-0002 Erection Costs For Using A 90 Ton Crawler Crane** (03 41 16 00-0001)

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

03 41 16 00-0003	EA	Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane	379.73	303.81
03 41 16 00-0004	EA	Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	422.13	337.65
03 41 16 00-0005	EA	Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	448.24	358.57
03 41 16 00-0006	EA	Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane	475.19	380.17
03 41 16 00-0007	EA	Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	508.53	406.80
03 41 16 00-0008	EA	Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	543.49	434.79
03 41 16 00-0009	EA	Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	583.62	466.86
03 41 16 00-0010	EA	Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	634.74	507.76
03 41 16 00-0011	EA	Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane	690.15	552.19

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

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

03 41 16 00-0013	SF	4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect	34.65	
		For 3,500 PSI Concrete, Add	0.69	
		For 4,000 PSI Concrete, Add	1.04	
		For 4,500 PSI Concrete, Add	1.39	
		For 5,000 PSI Concrete, Add	2.08	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0014 SF 5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	41.58	
For 3,500 PSI Concrete, Add	0.83	
For 4,000 PSI Concrete, Add	1.25	
For 4,500 PSI Concrete, Add	1.66	
For 5,000 PSI Concrete, Add	2.49	
03 41 16 00-0015 SF 6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	50.82	
For 3,500 PSI Concrete, Add	1.02	
For 4,000 PSI Concrete, Add	1.52	
For 4,500 PSI Concrete, Add	2.03	
For 5,000 PSI Concrete, Add	3.05	
03 41 16 00-0016 SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	67.45	
For 3,500 PSI Concrete, Add	1.35	
For 4,000 PSI Concrete, Add	2.02	
For 4,500 PSI Concrete, Add	2.70	
For 5,000 PSI Concrete, Add	4.05	
03 41 16 00-0017 Floor Units, Combination Beam And Slab (03 41 16)		
03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane (03 41 16 00-0017)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0019 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane	466.81	373.43
03 41 16 00-0020 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane	508.79	407.09
03 41 16 00-0021 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane	562.35	449.83
03 41 16 00-0022 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane	624.43	499.51
03 41 16 00-0023 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane	701.92	561.48
03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane (03 41 16 00-0017)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 16 00-0025 EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane	587.33	469.90
03 41 16 00-0026 EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane	640.16	512.10
03 41 16 00-0027 EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane	707.55	566.09
03 41 16 00-0028 EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane	785.66	628.55
03 41 16 00-0029 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane	883.15	706.59
03 41 16 00-0030 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane	960.25	768.15
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane	1,061.33	849.06
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane	1,174.67	939.80
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane	1,329.57	1,063.67
03 41 16 00-0034 Material Cost (03 41 16 00-0017)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
03 41 16 00-0035 4" Slab (03 41 16 00-0034)		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,649.76	
For 3,500 PSI Concrete, Add	73.00	
For 4,000 PSI Concrete, Add	109.49	
For 4,500 PSI Concrete, Add	145.99	
For 5,000 PSI Concrete, Add	218.99	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,695.96	
For 3,500 PSI Concrete, Add	73.92	
For 4,000 PSI Concrete, Add	110.88	
For 4,500 PSI Concrete, Add	147.84	
For 5,000 PSI Concrete, Add	221.76	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,157.96	
For 3,500 PSI Concrete, Add	83.16	
For 4,000 PSI Concrete, Add	124.74	
For 4,500 PSI Concrete, Add	166.32	
For 5,000 PSI Concrete, Add	249.48	
03 41 16 00-0039 5" Slab (03 41 16 00-0034)		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,742.16	
For 3,500 PSI Concrete, Add	74.84	
For 4,000 PSI Concrete, Add	112.26	
For 4,500 PSI Concrete, Add	149.69	
For 5,000 PSI Concrete, Add	224.53	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,880.76	
For 3,500 PSI Concrete, Add	77.62	
For 4,000 PSI Concrete, Add	116.42	
For 4,500 PSI Concrete, Add	155.23	
For 5,000 PSI Concrete, Add	232.85	
03 41 16 00-0042 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,943.35	
For 3,500 PSI Concrete, Add	98.87	
For 4,000 PSI Concrete, Add	148.30	
For 4,500 PSI Concrete, Add	197.73	
For 5,000 PSI Concrete, Add	296.60	
03 41 16 00-0043 6" Slab (03 41 16 00-0034)		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0044 CY Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,880.76	
For 3,500 PSI Concrete, Add	77.62	
For 4,000 PSI Concrete, Add	116.42	
For 4,500 PSI Concrete, Add	155.23	
For 5,000 PSI Concrete, Add	232.85	
03 41 16 00-0045 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	4,619.96	
For 3,500 PSI Concrete, Add	92.40	
For 4,000 PSI Concrete, Add	138.60	
For 4,500 PSI Concrete, Add	184.80	
For 5,000 PSI Concrete, Add	277.20	
03 41 16 00-0046 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	5,636.35	
For 3,500 PSI Concrete, Add	112.73	
For 4,000 PSI Concrete, Add	169.09	
For 4,500 PSI Concrete, Add	225.45	
For 5,000 PSI Concrete, Add	338.18	
03 41 19 Precast Concrete Wall Panels (03 41)		
03 41 19 00-0001 Structural Wall Panels (03 41 19)		
Note: Gray, smooth form or board finish one side.		
03 41 19 00-0002 Erection Cost Using 50 Ton Hydraulic Crane (03 41 19 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003 EA Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	375.01	300.03
03 41 19 00-0004 EA Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	416.88	333.45
03 41 19 00-0005 EA Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	469.28	375.44
03 41 19 00-0006 EA Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	502.20	401.74
03 41 19 00-0007 EA Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	536.73	429.38
03 41 19 00-0008 EA Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	576.36	461.05
03 41 19 00-0009 EA Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	626.84	501.44
03 41 19 00-0010 EA Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	681.57	545.32
03 41 19 00-0011 Erection Cost Using 90 Ton Crawler Crane (03 41 19 00-0001)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0012 EA Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	419.92	335.90
03 41 19 00-0013 EA Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	466.81	373.43
03 41 19 00-0014 EA Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	525.47	420.44
03 41 19 00-0015 EA Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	562.35	449.83
03 41 19 00-0016 EA Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	601.01	480.81
03 41 19 00-0017 EA Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	645.38	516.33
03 41 19 00-0018 EA Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	701.92	561.48
03 41 19 00-0019 EA Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	763.19	610.49
03 41 19 00-0020 EA Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	843.53	674.87
03 41 19 00-0021 EA Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	933.61	746.85
03 41 19 00-0022 EA Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,056.72	845.42
03 41 19 00-0023 EA Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,202.02	961.62
03 41 19 00-0024 EA Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane.....	1,393.65	1,114.95
03 41 19 00-0025 Material Cost (03 41 19 00-0001)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.		
03 41 19 00-0026 SF 4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	46.20	
For 3,500 PSI Concrete, Add	0.92	
For 4,000 PSI Concrete, Add	1.39	
For 4,500 PSI Concrete, Add	1.85	
For 5,000 PSI Concrete, Add	2.77	
For White Facing, Add	9.24	
For Solid White Through Thickness, Add	9.24	
For Broken Rib Finish, Add	4.62	
For Fluted Surface, Add	4.62	
For Exposed Aggregate, Add	9.24	
For Sandblasting Of Surface, Add	4.62	
For 2" Polystyrene Insulation, Add	2.19	
03 41 19 00-0027 SF 5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	56.82	
For 3,500 PSI Concrete, Add	1.14	
For 4,000 PSI Concrete, Add	1.70	
For 4,500 PSI Concrete, Add	2.27	
For 5,000 PSI Concrete, Add	3.41	
For White Facing, Add	11.36	
For Solid White Through Thickness, Add	11.36	
For Broken Rib Finish, Add	5.68	
For Fluted Surface, Add	5.68	
For Exposed Aggregate, Add	11.36	
For Sandblasting Of Surface, Add	5.68	
For 2" Polystyrene Insulation, Add	2.19	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 41 19 00-0028	SF 6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	68.38		
	For 3,500 PSI Concrete, Add	1.37		
	For 4,000 PSI Concrete, Add	2.05		
	For 4,500 PSI Concrete, Add	2.74		
	For 5,000 PSI Concrete, Add	4.10		
	For White Facing, Add	13.68		
	For Solid White Through Thickness, Add	13.68		
	For Broken Rib Finish, Add	6.84		
	For Fluted Surface, Add	6.84		
	For Exposed Aggregate, Add	13.68		
	For Sandblasting Of Surface, Add	6.84		
	For 2" Polystyrene Insulation, Add	2.19		
03 41 19 00-0029	SF 8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	90.09		
	For 3,500 PSI Concrete, Add	1.80		
	For 4,000 PSI Concrete, Add	2.70		
	For 4,500 PSI Concrete, Add	3.60		
	For 5,000 PSI Concrete, Add	5.41		
	For White Facing, Add	18.02		
	For Solid White Through Thickness, Add	18.02		
	For Broken Rib Finish, Add	9.01		
	For Fluted Surface, Add	9.01		
	For Exposed Aggregate, Add	18.02		
	For Sandblasting Of Surface, Add	9.01		
	For 2" Polystyrene Insulation, Add	2.19		
03 41 19 00-0030	Partition Panels (03 41 19)			
03 41 19 00-0031	Erection Costs Using 20 Ton Hydraulic Crane (03 41 19 00-0030)			
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 19 00-0032	EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	299.73		239.75
03 41 19 00-0033	EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	333.20		266.59
03 41 19 00-0034	EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	375.08		300.05
03 41 19 00-0035	EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	429.00		343.20
03 41 19 00-0036	EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	460.66		368.56
03 41 19 00-0037	EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	501.02		400.80
03 41 19 00-0038	EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	544.76		435.86
03 41 19 00-0039	EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	602.10		481.70
03 41 19 00-0040	Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0030)			
	Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.			
03 41 19 00-0041	EA Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	375.01		300.03
03 41 19 00-0042	EA Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	416.88		333.45
03 41 19 00-0043	EA Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	469.28		375.44
03 41 19 00-0044	EA Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	536.73		429.38
03 41 19 00-0045	EA Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	576.36		461.05
03 41 19 00-0046	EA Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	626.84		501.44
03 41 19 00-0047	EA Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	681.57		545.32
03 41 19 00-0048	EA Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	753.31		602.62
03 41 19 00-0049	EA Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	833.75		667.02
03 41 19 00-0050	EA Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	943.71		754.92
03 41 19 00-0051	EA Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	1,073.47		858.77
03 41 19 00-0052	EA Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	1,244.59		995.64
03 41 19 00-0053	Material Cost (03 41 19 00-0030)			
	Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.			
03 41 19 00-0054	SF 4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	43.89		
	For 4,000 PSI Concrete, Add	1.32		
	For 4,500 PSI Concrete, Add	1.76		
	For 5,000 PSI Concrete, Add	2.63		
	For White Facing, Add	8.78		
	For Solid White Through Thickness, Add	8.78		
	For Broken Rib Finish, Add	4.39		
	For Fluted Surface, Add	4.39		
	For Exposed Aggregate, Add	8.78		
	For Sandblasting Of Surface, Add	4.39		
03 41 19 00-0055	SF 5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	54.05		
	For 4,000 PSI Concrete, Add	1.62		
	For 4,500 PSI Concrete, Add	2.16		
	For 5,000 PSI Concrete, Add	3.24		
	For White Facing, Add	10.81		
	For Solid White Through Thickness, Add	10.81		
	For Broken Rib Finish, Add	5.41		
	For Fluted Surface, Add	5.41		
	For Exposed Aggregate, Add	10.81		
	For Sandblasting Of Surface, Add	5.41		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0056 SF 6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	64.68	
For 4,000 PSI Concrete, Add	1.94	
For 4,500 PSI Concrete, Add	2.59	
For 5,000 PSI Concrete, Add	3.88	
For White Facing, Add	12.94	
For Solid White Through Thickness, Add	12.94	
For Broken Rib Finish, Add	6.47	
For Fluted Surface, Add	6.47	
For Exposed Aggregate, Add	12.94	
For Sandblasting Of Surface, Add	6.47	
03 41 19 00-0057 SF 8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	85.47	
For 4,000 PSI Concrete, Add	2.56	
For 4,500 PSI Concrete, Add	3.42	
For 5,000 PSI Concrete, Add	5.13	
For White Facing, Add	17.09	
For Solid White Through Thickness, Add	17.09	
For Broken Rib Finish, Add	8.55	
For Fluted Surface, Add	8.55	
For Exposed Aggregate, Add	17.09	
For Sandblasting Of Surface, Add	8.55	
03 41 19 00-0058 Cladding Panels (03 41 19)		
03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0060 EA Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	395.75	316.54
03 41 19 00-0061 EA Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	442.66	354.11
03 41 19 00-0062 EA Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	502.20	401.74
03 41 19 00-0063 EA Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	536.73	429.38
03 41 19 00-0064 EA Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	576.36	461.05
03 41 19 00-0065 EA Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	626.84	501.44
03 41 19 00-0066 EA Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	681.57	545.32
03 41 19 00-0067 EA Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	753.31	602.62
03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0058)		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0069 EA Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	443.14	354.47
03 41 19 00-0070 EA Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	495.68	396.53
03 41 19 00-0071 EA Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	562.35	449.83
03 41 19 00-0072 EA Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	601.01	480.81
03 41 19 00-0073 EA Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	645.38	516.33
03 41 19 00-0074 EA Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	701.92	561.48
03 41 19 00-0075 EA Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	763.19	610.49
03 41 19 00-0076 EA Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	843.53	674.87
03 41 19 00-0077 EA Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	933.61	746.85
03 41 19 00-0078 EA Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	1,056.72	845.42
03 41 19 00-0079 EA Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,202.02	961.62
03 41 19 00-0080 EA Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,393.65	1,114.95
03 41 19 00-0081 Material Cost (03 41 19 00-0058)		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082 SF 4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	43.89	
For 3,500 PSI Concrete, Add	0.88	
For 4,000 PSI Concrete, Add	1.32	
For 4,500 PSI Concrete, Add	1.76	
For 5,000 PSI Concrete, Add	2.63	
For White Facing, Add	8.78	
For Solid White Through Thickness, Add	8.78	
For Broken Rib Finish, Add	4.39	
For Fluted Surface, Add	4.39	
For Exposed Aggregate, Add	8.78	
For Sandblasting Of Surface, Add	4.39	
03 41 19 00-0083 SF 5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	54.05	
For 3,500 PSI Concrete, Add	1.08	
For 4,000 PSI Concrete, Add	1.62	
For 4,500 PSI Concrete, Add	2.16	
For 5,000 PSI Concrete, Add	3.24	
For White Facing, Add	10.81	
For Solid White Through Thickness, Add	10.81	
For Broken Rib Finish, Add	5.41	
For Fluted Surface, Add	5.41	
For Exposed Aggregate, Add	10.81	
For Sandblasting Of Surface, Add	5.41	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 41 19 00-0084	SF 6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	64.68		
	For 3,500 PSI Concrete, Add	1.29		
	For 4,000 PSI Concrete, Add	1.94		
	For 4,500 PSI Concrete, Add	2.59		
	For 5,000 PSI Concrete, Add	3.88		
	For White Facing, Add	12.94		
	For Solid White Through Thickness, Add	12.94		
	For Broken Rib Finish, Add	6.47		
	For Fluted Surface, Add	6.47		
	For Exposed Aggregate, Add	12.94		
	For Sandblasting Of Surface, Add	6.47		
03 41 19 00-0085	SF 8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	85.47		
	For 3,500 PSI Concrete, Add	1.71		
	For 4,000 PSI Concrete, Add	2.56		
	For 4,500 PSI Concrete, Add	3.42		
	For 5,000 PSI Concrete, Add	5.13		
	For White Facing, Add	17.09		
	For Solid White Through Thickness, Add	17.09		
	For Broken Rib Finish, Add	8.55		
	For Fluted Surface, Add	8.55		
	For Exposed Aggregate, Add	17.09		
	For Sandblasting Of Surface, Add	8.55		
03 41 19 00-0086	Sandwich Panel (03 41 19)			
03 41 19 00-0087	Erection Costs Using 50 Ton Hydraulic Crane (03 41 19 00-0086)			
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 19 00-0088	EA Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane	395.75		316.54
03 41 19 00-0089	EA Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	442.66		354.11
03 41 19 00-0090	EA Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	502.20		401.74
03 41 19 00-0091	EA Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	536.73		429.38
03 41 19 00-0092	EA Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	576.36		461.05
03 41 19 00-0093	EA Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane	626.84		501.44
03 41 19 00-0094	EA Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane	681.57		545.32
03 41 19 00-0095	EA Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane	753.31		602.62
03 41 19 00-0096	Erection Costs Using 90 Ton Crawler Crane (03 41 19 00-0086)			
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 19 00-0097	EA Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane	400.73		320.52
03 41 19 00-0098	EA Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	448.24		358.57
03 41 19 00-0099	EA Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	508.53		406.80
03 41 19 00-0100	EA Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	543.49		434.79
03 41 19 00-0101	EA Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	583.62		466.86
03 41 19 00-0102	EA Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	634.74		507.76
03 41 19 00-0103	EA Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	690.15		552.19
03 41 19 00-0104	EA Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	762.80		610.21
03 41 19 00-0105	EA Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane	844.26		675.42
03 41 19 00-0106	EA Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane	955.59		764.43
03 41 19 00-0107	EA Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane	1,086.99		869.59
03 41 19 00-0108	EA Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane	1,260.27		1,008.18
03 41 19 00-0109	Material Cost (03 41 19 00-0086)			
	Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.			
03 41 19 00-0110	SF 4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	60.06		
	For 3,500 PSI Concrete, Add	1.20		
	For 4,000 PSI Concrete, Add	1.80		
	For 4,500 PSI Concrete, Add	2.40		
	For 5,000 PSI Concrete, Add	3.60		
	For White Facing, Add	12.01		
	For Solid White Through Thickness, Add	12.01		
	For Broken Rib Finish, Add	6.01		
	For Fluted Surface, Add	6.01		
	For Exposed Aggregate, Add	12.01		
	For Sandblasting Of Surface, Add	6.01		
03 41 19 00-0111	SF 5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	70.69		
	For 3,500 PSI Concrete, Add	1.41		
	For 4,000 PSI Concrete, Add	2.12		
	For 4,500 PSI Concrete, Add	2.83		
	For 5,000 PSI Concrete, Add	4.24		
	For White Facing, Add	14.14		
	For Solid White Through Thickness, Add	14.14		
	For Broken Rib Finish, Add	7.07		
	For Fluted Surface, Add	7.07		
	For Exposed Aggregate, Add	14.14		
	For Sandblasting Of Surface, Add	7.07		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0112 SF 6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	82.24	
For 3,500 PSI Concrete, Add	1.64	
For 4,000 PSI Concrete, Add	2.47	
For 4,500 PSI Concrete, Add	3.29	
For 5,000 PSI Concrete, Add	4.93	
For White Facing, Add	16.45	
For Solid White Through Thickness, Add	16.45	
For Broken Rib Finish, Add	8.22	
For Fluted Surface, Add	8.22	
For Exposed Aggregate, Add	16.45	
For Sandblasting Of Surface, Add	8.22	
03 41 19 00-0113 SF 8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect	103.95	
For 3,500 PSI Concrete, Add	2.08	
For 4,000 PSI Concrete, Add	3.12	
For 4,500 PSI Concrete, Add	4.16	
For 5,000 PSI Concrete, Add	6.24	
For White Facing, Add	20.79	
For Solid White Through Thickness, Add	20.79	
For Broken Rib Finish, Add	10.40	
For Fluted Surface, Add	10.40	
For Exposed Aggregate, Add	20.79	
For Sandblasting Of Surface, Add	10.40	

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

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

03 41 23 00-0002 EA Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane	416.88	333.45
03 41 23 00-0003 EA Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane	442.66	354.11
03 41 23 00-0004 EA Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane	469.28	375.44
03 41 23 00-0005 EA Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane	502.20	401.74
03 41 23 00-0006 EA Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane	536.73	429.38
03 41 23 00-0007 EA Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane	576.36	461.05
03 41 23 00-0008 EA Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane	626.84	501.44
03 41 23 00-0009 EA Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane	681.57	545.32

03 41 23 00-0010 Erection Costs Using A 90 Ton Crawler Crane (03 41 23)

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

03 41 23 00-0011 EA Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane	416.88	333.45
03 41 23 00-0012 EA Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	442.66	354.11
03 41 23 00-0013 EA Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane	469.28	375.44
03 41 23 00-0014 EA Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	502.20	401.74
03 41 23 00-0015 EA Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane	536.73	429.38
03 41 23 00-0016 EA Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	576.36	461.05
03 41 23 00-0017 EA Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane	626.84	501.44
03 41 23 00-0018 EA Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	681.57	545.32

03 41 23 00-0019 Material Cost (03 41 23)

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

03 41 23 00-0020 EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser	925.89	
For 3,500 PSI Concrete, Add	120.83	
For 4,000 PSI Concrete, Add	227.03	
For 4,500 PSI Concrete, Add	333.69	
For 5,000 PSI Concrete, Add	453.96	

03 41 26 Precast Concrete Structural Sections (03 41)**03 41 26 00-0001 Precast Beams, Girder And Joists (03 41 26)****03 41 26 00-0002 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0001)**

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

03 41 26 00-0003 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane	525.47	420.44
03 41 26 00-0004 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane	562.35	449.83
03 41 26 00-0005 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane	601.01	480.81
03 41 26 00-0006 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane	645.38	516.33

03 41 26 00-0007 Erection Costs Using A 125 Ton Crawler Crane (03 41 26 00-0001)

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

03 41 26 00-0008 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane	661.16	528.88
03 41 26 00-0009 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane	707.55	566.09
03 41 26 00-0010 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane	756.20	604.96
03 41 26 00-0011 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane	812.02	649.58
03 41 26 00-0012 EA Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane	883.15	706.59
03 41 26 00-0013 EA Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane	960.25	768.15
03 41 26 00-0014 EA Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane	1,061.33	849.06



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

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
03 41 26 00-0015	EA	Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane	1,174.67		939.80
03 41 26 00-0016		Material Cost (03 41 26 00-0001) Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.			
03 41 26 00-0017		1,000 Lb./LF Live Load (03 41 26 00-0016)			
03 41 26 00-0018	LF	Precast Structural Sections, 1,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI	185.15		
		For 3,500 PSI Concrete, Add	5.05		
		For 4,000 PSI Concrete, Add	7.59		
		For 4,500 PSI Concrete, Add	10.11		
		For 5,000 PSI Concrete, Add	15.18		
03 41 26 00-0019	LF	Precast Structural Sections, 1,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI	231.44		
		For 3,500 PSI Concrete, Add	6.32		
		For 4,000 PSI Concrete, Add	9.49		
		For 4,500 PSI Concrete, Add	12.64		
		For 5,000 PSI Concrete, Add	18.98		
03 41 26 00-0020	LF	Precast Structural Sections, 1,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI	277.73		
		For 3,500 PSI Concrete, Add	7.58		
		For 4,000 PSI Concrete, Add	11.39		
		For 4,500 PSI Concrete, Add	15.16		
		For 5,000 PSI Concrete, Add	22.77		
03 41 26 00-0021		3,000 Lb./LF Live Load (03 41 26 00-0016)			
03 41 26 00-0022	LF	Precast Structural Sections, 3,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI	231.44		
		For 3,500 PSI Concrete, Add	6.32		
		For 4,000 PSI Concrete, Add	9.49		
		For 4,500 PSI Concrete, Add	12.64		
		For 5,000 PSI Concrete, Add	18.98		
03 41 26 00-0023	LF	Precast Structural Sections, 3,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI	277.73		
		For 3,500 PSI Concrete, Add	7.58		
		For 4,000 PSI Concrete, Add	11.39		
		For 4,500 PSI Concrete, Add	15.16		
		For 5,000 PSI Concrete, Add	22.77		
03 41 26 00-0024	LF	Precast Structural Sections, 3,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI	370.30		
		For 3,500 PSI Concrete, Add	10.11		
		For 4,000 PSI Concrete, Add	15.18		
		For 4,500 PSI Concrete, Add	20.22		
		For 5,000 PSI Concrete, Add	30.36		
03 41 26 00-0025		5,000 Lb./LF Live Load (03 41 26 00-0016)			
03 41 26 00-0026	LF	Precast Structural Sections, 5,000 Lb./LF, 15' Span Live Load, Span, 3,000 PSI	324.01		
		For 3,500 PSI Concrete, Add	8.85		
		For 4,000 PSI Concrete, Add	13.28		
		For 4,500 PSI Concrete, Add	17.69		
		For 5,000 PSI Concrete, Add	26.57		
03 41 26 00-0027	LF	Precast Structural Sections, 5,000 Lb./LF, 20' Span Live Load, Span, 3,000 PSI	370.30		
		For 3,500 PSI Concrete, Add	10.11		
		For 4,000 PSI Concrete, Add	15.18		
		For 4,500 PSI Concrete, Add	20.22		
		For 5,000 PSI Concrete, Add	30.36		
03 41 26 00-0028	LF	Precast Structural Sections, 5,000 Lb./LF, 30' Span Live Load, Span, 3,000 PSI	462.87		
		For 3,500 PSI Concrete, Add	12.64		
		For 4,000 PSI Concrete, Add	18.98		
		For 4,500 PSI Concrete, Add	25.27		
		For 5,000 PSI Concrete, Add	37.96		
03 41 26 00-0029		Precast Concrete Columns (03 41 26)			
03 41 26 00-0030		Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0029) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.			
03 41 26 00-0031	EA	Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane	304.06		243.21
03 41 26 00-0032	EA	Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane	323.27		258.56
03 41 26 00-0033	EA	Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane	346.45		277.18
03 41 26 00-0034	EA	Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane	371.62		297.29
03 41 26 00-0035	EA	Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane	400.73		320.52
03 41 26 00-0036	EA	Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane	434.79		347.84
03 41 26 00-0037	EA	Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane	475.19		380.17
03 41 26 00-0038		Material Cost (03 41 26 00-0029) Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.			
03 41 26 00-0039		12" x 12" Column, Square, Tied (03 41 26 00-0038)			
03 41 26 00-0040	CY	12" x 12" Precast Column, Tied, Average Reinforced 351 Lb./CY	958.30		
		For 3,500 PSI Concrete, Add	71.87		
		For 4,000 PSI Concrete, Add	135.12		
		For 4,500 PSI Concrete, Add	199.33		
		For 5,000 PSI Concrete, Add	271.20		

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
03 41 26 00-0041	16" x 16" Column, Square, Tied	(03 41 26 00-0038)		
03 41 26 00-0042	CY 16" x 16" Precast Column, Tied, Average Reinforced 368 Lb./CY		981.97	
	For 3,500 PSI Concrete, Add		73.65	
	For 4,000 PSI Concrete, Add		138.46	
	For 4,500 PSI Concrete, Add		204.25	
	For 5,000 PSI Concrete, Add		277.90	
03 41 26 00-0043	20" x 20" Column, Square, Tied	(03 41 26 00-0038)		
03 41 26 00-0044	CY 20" x 20" Precast Column, Tied, Average Reinforced 357 Lb./CY		983.86	
	For 3,500 PSI Concrete, Add		73.79	
	For 4,000 PSI Concrete, Add		138.72	
	For 4,500 PSI Concrete, Add		204.64	
	For 5,000 PSI Concrete, Add		278.43	
03 41 26 00-0045	24" x 24" Column, Square, Tied	(03 41 26 00-0038)		
03 41 26 00-0046	CY 24" x 24" Precast Column, Tied, Average Reinforced 365 Lb./CY		983.86	
	For 3,500 PSI Concrete, Add		73.79	
	For 4,000 PSI Concrete, Add		138.72	
	For 4,500 PSI Concrete, Add		204.64	
	For 5,000 PSI Concrete, Add		278.43	
03 41 26 00-0047	28" x 28" Column, Square, Tied	(03 41 26 00-0038)		
03 41 26 00-0048	CY 28" x 28" Precast Column, Tied, Average Reinforced 347 Lb./CY		983.86	
	For 3,500 PSI Concrete, Add		73.79	
	For 4,000 PSI Concrete, Add		138.72	
	For 4,500 PSI Concrete, Add		204.64	
	For 5,000 PSI Concrete, Add		278.43	
03 41 26 00-0049	32" x 32" Column, Square, Tied	(03 41 26 00-0038)		
03 41 26 00-0050	CY 32" x 32" Precast Column, Tied, Average Reinforced 351 Lb./CY		981.97	
	For 3,500 PSI Concrete, Add		73.65	
	For 4,000 PSI Concrete, Add		138.46	
	For 4,500 PSI Concrete, Add		204.25	
	For 5,000 PSI Concrete, Add		277.90	
03 41 26 00-0051	36" x 36" Column, Square, Tied	(03 41 26 00-0038)		
03 41 26 00-0052	CY 36" x 36" Precast Column, Tied, Average Reinforced 278 Lb./CY		983.86	
	For 3,500 PSI Concrete, Add		73.79	
	For 4,000 PSI Concrete, Add		138.72	
	For 4,500 PSI Concrete, Add		204.64	
	For 5,000 PSI Concrete, Add		278.43	
03 41 33	Precast Structural Pretensioned Concrete	(03 41)		
03 41 33 00-0001	Slabs, Roof And Floor Members	(03 41 33)		
03 41 33 00-0002	SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor		19.50	2.48
03 41 33 00-0003	SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor		24.32	2.48
03 41 33 00-0004	SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor		29.14	2.61
03 41 33 00-0005	SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor		33.99	2.73
03 41 33 00-0006	Tee Members	(03 41 33)		
03 41 33 00-0007	Multiple Tee, Roof And Floor	(03 41 33 00-0006)		
03 41 33 00-0008	SF Prestressed Multiple Tee, Roof And Floor Members		43.89	3.23
03 41 33 00-0009	Double Tee Wall Member	(03 41 33 00-0006)		
03 41 33 00-0010	SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span		61.97	8.83
03 41 33 00-0011	Single Tee, Short Span, Roof Members	(03 41 33 00-0006)		
03 41 33 00-0012	SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span		51.54	5.35
03 41 33 00-0013	Single Tee, Long Span, Roof Members	(03 41 33 00-0006)		
03 41 33 00-0014	SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span		61.89	4.60
03 41 33 00-0015	Prestressed Concrete Items	(03 41 33)		
03 41 33 00-0016	Prestressed Quad Tee	(03 41 33 00-0015)		
03 41 33 00-0017	SF Tees, Prestressed Quad Tee, Short Spans, Roof		31.81	1.00



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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0018	SF	Tees, Prestressed Quad Tee, Short Spans, Floor	33.20	1.00
03 41 33 00-0019 Prestressed Double Tee (03 41 33 00-0015)				
03 41 33 00-0020	SF	Tees, Double Tee, Floor Members , 60' Span	52.92	0.87
03 41 33 00-0021	SF	Tees, Double Tee, Floor Members , 80' Span	72.88	0.87
03 41 33 00-0022	SF	Tees, Double Tee, Roof Members, 30' Span	36.09	1.50
03 41 33 00-0023	SF	Tees, Double Tee, Roof Members, 50' Span	55.95	1.00
03 41 33 00-0024	SF	Tees, Double Tee, Wall Members, Up To 55' High	39.09	1.98
03 41 33 00-0025 Prestressed Single Tee (03 41 33 00-0015)				
03 41 33 00-0026	SF	Tees, Single Tee Roof Members, 40' Span	62.58	2.23
03 41 33 00-0027	SF	Tees, Single Tee Roof Members, 80' Span	72.53	1.37
03 41 33 00-0028	SF	Tees, Single Tee Roof Members, 100' Span	95.97	1.25
03 41 33 00-0029	SF	Tees, Single Tee Roof Members, 120' Span	101.06	1.25
03 41 33 00-0030 Prestressed Double Tee Floor Members (03 41 33 00-0015)				
03 41 33 00-0031	EA	Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'	16,187.64	358.12
03 41 33 00-0032	EA	Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'	17,626.15	397.91
03 41 33 00-0033	EA	Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'	29,493.21	447.65
03 41 33 00-0034	EA	Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'	6,332.66	325.66
03 41 33 00-0035	EA	Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'	8,317.67	358.12
03 41 33 00-0036	EA	Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'	10,632.37	358.12
03 41 33 00-0037	EA	Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'	11,839.41	397.91
03 41 33 00-0038	EA	Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'	15,142.09	447.65
03 41 33 00-0039	EA	Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'	27,258.75	511.82
03 41 33 00-0040 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)				
03 41 33 00-0041	SF	Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete	33.62	
03 41 33 00-0042	SF	Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete	35.00	
03 41 33 00-0043	SF	Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete	36.62	
03 41 33 00-0044	SF	Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete	37.81	
03 41 33 00-0045	SF	Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete	40.39	
03 41 33 00-0046 Double And Single Tees (03 41 33)				
03 41 33 00-0047 Double And Single Tees With 16" Roof And Floor Loading (03 41 33 00-0046)				
03 41 33 00-0048	SF	Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	40.61	
03 41 33 00-0049	SF	Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	39.66	
03 41 33 00-0050	SF	Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	37.45	
03 41 33 00-0051	SF	Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	40.61	
03 41 33 00-0052	SF	Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	40.50	
03 41 33 00-0053	SF	Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	62.28	
03 41 33 00-0054	SF	Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	60.91	
03 41 33 00-0055	SF	Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	57.03	
03 41 33 00-0056	SF	Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	62.28	
03 41 33 00-0057	SF	Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	58.41	
03 41 33 00-0058 Double And Single Tees With 24" Roof And Floor Loading (03 41 33 00-0046)				
03 41 33 00-0059	SF	Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	41.86	
03 41 33 00-0060	SF	Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	40.91	
03 41 33 00-0061	SF	Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	39.53	
03 41 33 00-0062	SF	Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	41.86	
03 41 33 00-0063	SF	Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	40.50	
03 41 33 00-0064	SF	Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete	63.94	
03 41 33 00-0065	SF	Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete	62.58	
03 41 33 00-0066	SF	Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete	60.37	
03 41 33 00-0067	SF	Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete	63.94	
03 41 33 00-0068	SF	Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete	62.17	
03 41 33 00-0069 Double And Single Tees With 32" Roof And Floor Loading (03 41 33 00-0046)				
03 41 33 00-0070	SF	Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	44.12	
03 41 33 00-0071	SF	Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	42.74	
03 41 33 00-0072	SF	Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	41.35	
03 41 33 00-0073	SF	Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete	67.87	
03 41 33 00-0074	SF	Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete	65.66	
03 41 33 00-0075	SF	Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete	63.02	

03 48 Precast Concrete Specialties (03 40)

03 48 16 Precast Concrete Splash Blocks (03 48)

03 48 16 00-0001 Precast Concrete Splash Blocks (03 48 16)

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

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
03 48 16 00-0002	EA	Precast Concrete Splash Blocks, 20" x 12" x 3"	42.84		4.16
03 48 21		Precast Concrete Handrails (03 48)			
03 48 21 00-0001		Installation Cost (03 48 21)			
		Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.			
03 48 21 00-0002	EA	Install Precast Handrails, 0-2 Ton/Handrail.....	170.87		76.93
03 48 21 00-0003	EA	Install Precast Handrails, Over 2 Ton/Handrail	204.92		92.19
03 48 21 00-0004		Material Cost (03 48 21)			
		Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.			
03 48 21 00-0005	CY	4" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,657.34		
		For 3,500 PSI Concrete, Add	238.64		
		For 4,000 PSI Concrete, Add	448.39		
		For 4,500 PSI Concrete, Add	659.05		
		For 5,000 PSI Concrete, Add	896.60		
03 48 21 00-0006	CY	5" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,796.23		
		For 3,500 PSI Concrete, Add	247.70		
		For 4,000 PSI Concrete, Add	465.42		
		For 4,500 PSI Concrete, Add	684.08		
		For 5,000 PSI Concrete, Add	930.65		
03 48 21 00-0007	CY	6" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,935.12		
		For 3,500 PSI Concrete, Add	256.77		
		For 4,000 PSI Concrete, Add	482.45		
		For 4,500 PSI Concrete, Add	709.11		
		For 5,000 PSI Concrete, Add	964.69		
03 48 21 00-0008	CY	8" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	4,120.30		
		For 3,500 PSI Concrete, Add	268.85		
		For 4,000 PSI Concrete, Add	505.15		
		For 4,500 PSI Concrete, Add	742.48		
		For 5,000 PSI Concrete, Add	1,010.09		
03 48 22		Precast Concrete Sun Screen and Trellis (03 48)			
03 48 22 00-0001		Sun Screen Blades (03 48 22)			
03 48 22 00-0002		Installation Cost (03 48 22 00-0001)			
		Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.			
03 48 22 00-0003	EA	Install Precast Sun Screen Blade, 0-1 Ton/Each	85.43		38.46
03 48 22 00-0004	EA	Install Precast Sun Screen Blade, 1-2 Ton/Each	102.65		46.15
03 48 22 00-0005	EA	Install Precast Sun Screen Blade, 2-3 Ton/Each	128.24		57.75
03 48 22 00-0006		Material Cost (03 48 22 00-0001)			
		Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.			
03 48 22 00-0007	CY	4" Thick 3,000 PSI Concrete Precast Sun Screen Blades	3,888.82		
		For 3,500 PSI Concrete, Add	253.75		
		For 4,000 PSI Concrete, Add	476.77		
		For 4,500 PSI Concrete, Add	700.77		
		For 5,000 PSI Concrete, Add	953.34		
03 48 22 00-0008	CY	5" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,027.71		
		For 3,500 PSI Concrete, Add	262.81		
		For 4,000 PSI Concrete, Add	493.80		
		For 4,500 PSI Concrete, Add	725.79		
		For 5,000 PSI Concrete, Add	987.39		
03 48 22 00-0009	CY	6" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,212.89		
		For 3,500 PSI Concrete, Add	274.89		
		For 4,000 PSI Concrete, Add	516.50		
		For 4,500 PSI Concrete, Add	759.16		
		For 5,000 PSI Concrete, Add	1,032.79		
03 48 22 00-0010	CY	8" Thick 3,000 PSI Concrete Precast Sun Screen Blades	4,398.07		
		For 3,500 PSI Concrete, Add	286.97		
		For 4,000 PSI Concrete, Add	539.20		
		For 4,500 PSI Concrete, Add	792.53		
		For 5,000 PSI Concrete, Add	1,078.19		
03 48 22 00-0011		Sun Screen/Trellis Units (03 48 22)			
03 48 22 00-0012		Installation Cost Using A 50 Ton Hydraulic Crane (03 48 22 00-0011)			
		Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.			
03 48 22 00-0013	EA	Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane	395.75		178.06
03 48 22 00-0014	EA	Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane	442.66		199.26
03 48 22 00-0015	EA	Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane	502.20		225.96
03 48 22 00-0016	EA	Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane	536.73		241.53
03 48 22 00-0017		Material Cost (03 48 22 00-0011)			
		Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.			



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0018 CY 4" Thick 3,000 PSI Concrete Precast Trellises Blades For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	4,490.66 293.02 550.55 809.22 1,100.89	
03 48 22 00-0019 CY 5" Thick 3,000 PSI Concrete Precast Trellises Blades For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	4,629.55 302.08 567.58 834.24 1,134.93	
03 48 22 00-0020 CY 6" Thick 3,000 PSI Concrete Precast Trellises Blades For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	4,814.73 314.16 590.29 867.61 1,180.33	
03 48 22 00-0021 CY 8" Thick 3,000 PSI Concrete Precast Trellises Blades For 3,500 PSI Concrete, Add For 4,000 PSI Concrete, Add For 4,500 PSI Concrete, Add For 5,000 PSI Concrete, Add	5,046.21 329.27 618.67 909.33 1,237.08	
03 48 24 Precast Minaret Segments (03 48)		
03 48 24 00-0001 Installation Costs Using A 50 Ton Hydraulic Crane (03 48 24) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 24 00-0002 L - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0003 EA Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	385.10	308.08
03 48 24 00-0004 EA Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	431.54	345.25
03 48 24 00-0005 EA Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	487.94	390.34
03 48 24 00-0006 EA Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	520.46	416.37
03 48 24 00-0007 O - Shaped Segments (03 48 24 00-0001)		
03 48 24 00-0008 EA Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	407.00	325.67
03 48 24 00-0009 EA Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	456.79	365.38
03 48 24 00-0010 EA Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	517.33	413.82
03 48 24 00-0011 EA Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	554.05	443.21
03 48 24 00-0012 Platform Segment (03 48 24 00-0001)		
03 48 24 00-0013 EA Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	780.70	624.62
03 48 24 00-0014 EA Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	943.71	754.92
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	1,047.29	837.84
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	1,176.40	941.16
03 48 24 00-0017 Cap Segment (03 48 24 00-0001)		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane	427.25	341.76
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane	477.09	381.62
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane	543.53	434.75
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane	580.25	464.14
03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane (03 48 24) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
03 48 24 00-0023 L - Shaped Segments (03 48 24 00-0022)		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	389.95	311.96
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	436.98	349.60
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	494.09	395.26
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	527.02	421.61
03 48 24 00-0028 O - Shaped Segment (03 48 24 00-0022)		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	412.13	329.77
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	462.55	369.99
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	523.85	419.03
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	561.03	448.79
03 48 24 00-0033 Platform Segment (03 48 24 00-0022)		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	630.14	504.09
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	762.80	610.21
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	844.26	675.42
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	955.59	764.43
03 48 24 00-0038 Cap Segment (03 48 24 00-0022)		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane	432.63	346.07

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0040 EA Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane	483.11	386.43
03 48 24 00-0041 EA Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane	550.38	440.23
03 48 24 00-0042 EA Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane	587.56	469.99
03 48 24 00-0043 Material Costs (03 48 24) Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044 CY Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete	11,110.30	
Note: Including Post Tension Cost		
03 48 24 00-0045 CY Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete	11,110.30	
Note: Including Post Tension Cost		
03 48 24 00-0046 CY Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete	11,110.30	
Note: Including Post Tension Cost		
03 48 24 00-0047 CY Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete	11,110.30	
Note: Including Post Tension Cost		
03 48 29 Precast Accessories (03 48) Note: Includes installation labor, material and equipment.		
03 48 29 00-0001 Bearing Pads For Precast Members (03 48 29)		
03 48 29 00-0002 Continuous 2" Wide Strips (03 48 29 00-0001)		
03 48 29 00-0003 LF Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips	1.48	
Note: For precast members		
03 48 29 00-0004 LF Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips	2.10	
Note: For precast members		
03 48 29 00-0005 LF Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips	3.47	
Note: For precast members		
03 48 29 00-0006 LF Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips	4.88	
Note: For precast members		
03 48 29 00-0007 LF Bearing Pads, Continuous 2" Wide x 1" Thick Strips	6.33	
Note: For precast members		
03 48 29 00-0008 LF Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips	9.09	
Note: For precast members		
03 48 29 00-0009 Bearing Pad Pipe Supports (03 48 29)		
03 48 29 00-0010 LF 4" x 4" Precast Pipe Support	13.97	
03 48 46 Precast Skylight Shells (03 48)		
03 48 46 00-0001 Installation Cost Using A 90 Ton Crawler Crane (03 48 46) Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002 EA Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane	562.35	253.10
03 48 46 00-0003 EA Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane	624.43	281.00
03 48 46 00-0004 EA Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane	701.92	315.86
03 48 46 00-0005 Material Cost (03 48 46) Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006 CY 3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius	4,648.20	
03 48 49 Precast Landings (03 48)		
03 48 49 00-0001 SF 3" Thick Precast Landing	114.24	
03 48 49 00-0002 SF 4" Thick Precast Landing	133.31	
03 48 49 00-0003 SF 5" Thick Precast Landing	151.32	
03 48 49 00-0004 SF 6" Thick Precast Landing	174.42	
03 48 54 Precast Concrete Blocks (03 48)		
03 48 54 00-0001 Precast Interlocking Concrete Blocks (03 48 54) Note: Includes lifting loop		
03 48 54 00-0002 EA 2' x 2' x 2' Precast Interlocking Concrete (Ecology) Block	163.09	45.81
03 48 54 00-0003 EA 2' x 2' x 3' Precast Interlocking Concrete (Ecology) Block	194.21	51.53
03 48 54 00-0004 EA 2' x 2' x 4' Precast Interlocking Concrete (Ecology) Block	225.34	57.26
03 48 54 00-0005 EA 2' x 2' x 6' Precast Interlocking Concrete (Ecology) Block	304.38	62.99
03 48 54 00-0006 EA 2' x 2' x 8' Precast Interlocking Concrete (Ecology) Block	366.26	68.71
03 50 Cast Decks and Underlayment (03)		
03 53 Concrete Topping (03 50) Note: Installed over new or existing concrete.		
03 53 14 Granolithic Concrete Topping (03 53)		
03 53 14 00-0001 Granolithic Topping Laid After (03 53 14) Note: Using 1:1:1-1/2 mix.		
03 53 14 00-0002 SF 1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.75	



		Concrete	03	CS
		Cast Decks and Underlayment	03 50	
		Concrete Topping	03 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 53 14 00-0003	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1-1-1/2 Mix.....	5.12		
03 53 14 00-0004	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1-1-1/2 Mix.....	6.43		

03 53 19 Concrete Overlayment (03 53)

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

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.82		
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.16		
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.69		
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	4.38		
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	6.21		
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.30		
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	5.93		

03 54 Cast Underlayment (03 50)

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

03 54 16 Hydraulic Cement Underlayment (03 54)

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

Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors	2.08		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.16		
For >100 To 250 SF, Add			0.08		
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors	3.62		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.16		
For >100 To 250 SF, Add			0.08		
03 54 16 00-0004	SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors	5.16		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.16		
For >100 To 250 SF, Add			0.08		
03 54 16 00-0005	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors	6.70		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.16		
For >100 To 250 SF, Add			0.08		
03 54 16 00-0006	SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors	8.24		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.16		
For >100 To 250 SF, Add			0.08		
03 54 16 00-0007	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors	9.83		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.18		
For >100 To 250 SF, Add			0.09		
03 54 16 00-0008	SF	1" Thick Self Leveling Cementitious Underlayment For Floors	12.91		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.18		
For >100 To 250 SF, Add			0.09		
03 54 16 00-0009	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors	16.04		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.21		
For >100 To 250 SF, Add			0.10		
03 54 16 00-0010	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors	19.13		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.21		
For >100 To 250 SF, Add			0.10		
03 54 16 00-0011	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors	22.33		
Note: Including Surface Preparation					
For Up To 100 SF, Add			0.27		
For >100 To 250 SF, Add			0.13		

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

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

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001 Cementitious Flowable Grout (03 61 16)

03 61 16 00-0002	CY	Cementitious Flowable Grout	499.50		

03 62 Non-Shrink Grouting (03 60)

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

03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	29.82		
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	44.38		

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 62 13 00-0004	Non-Metallic Non-Shrink Grouting For Bases (03 62 13)	
03 62 13 00-0005	SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases.....	44.27
03 62 13 00-0006	SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases.....	70.70

03 62 13 00-0007	Non-Metallic Non-Shrink Grouting For Joints (03 62 13)	
03 62 13 00-0008	1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)	
03 62 13 00-0009	LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.28
03 62 13 00-0010	LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.98
03 62 13 00-0011	LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.94

03 62 13 00-0012	1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)	
03 62 13 00-0013	LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.36
03 62 13 00-0014	LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	4.46
03 62 13 00-0015	LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	5.94

03 62 16 Metallic Non-Shrink Grouting (03 62)

03 62 16 00-0001	Metallic Non-Shrink Grouting For Bases (03 62 16)	
03 62 16 00-0002	SF 1" Deep, Metallic Non-Shrink Grout For Bases.....	37.68
03 62 16 00-0003	SF 2" Deep, Metallic Non-Shrink Grout For Bases.....	57.92

03 62 16 00-0004	Metallic Non-Shrink Grouting For Joints (03 62 16)	
03 62 16 00-0005	1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)	
03 62 16 00-0006	LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.87
03 62 16 00-0007	LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.36
03 62 16 00-0008	LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	3.14

03 62 16 00-0009	1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)	
03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.56
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.22
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	4.30

03 63 Epoxy Grouting (03 60)

03 63 00 00-0001	Spray On Concrete Epoxy Grout (03 63)	
Note: (Sika 224) per thickness per coat.		
03 63 00 00-0002	SF 1/4" Thick Coat Spray On Concrete Epoxy Grout.....	4.32
	For Color, Add	1.14
03 63 00 00-0003	SF 3/8" Thick Coat Spray On Concrete Epoxy Grout.....	5.98
	For Color, Add	1.70
03 63 00 00-0004	SF 1/2" Thick Coat Spray On Concrete Epoxy Grout.....	7.67
	For Color, Add	2.27
03 63 00 00-0005	SF 5/8" Thick Coat Spray On Concrete Epoxy Grout.....	9.19
	For Color, Add	2.84
03 63 00 00-0006	SF 3/4" Thick Coat Spray On Concrete Epoxy Grout.....	10.72
	For Color, Add	3.41
03 63 00 00-0007	SF 1" Thick Coat Spray On Concrete Epoxy Grout.....	13.89
	For Color, Add	4.55

03 64 Injection Grouting (03 60)

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

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout (03 64 23)	
03 64 23 00-0002	CF Pressure Injected Epoxy Grout.....	1,377.67
	For >4, Deduct	-145.67

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout (03 64 26)	
03 64 26 00-0002	CF Pressure Injected Cementitious Grout.....	241.59
	For >4, Deduct	-62.50

03 80 Concrete Cutting and Boring (03)**03 81 Concrete Cutting (03 80)**



		Concrete	03	03
		Concrete Cutting and Boring	03 80	
		Concrete Cutting	03 81	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 81 13	Flat Concrete Sawing (03 81) See CSI section 02 41 19 13-0057 for saw cutting.			
03 81 16	Track Mounted Concrete Wall Sawing (03 81) See CSI section 02 41 19 13-0057 for saw cutting.			
03 82	Concrete Boring (03 80)			
03 82 13	Concrete Core Drilling (03 82) See CSI section 02 41 19 13-0080 for core drilling.			

END OF SECTION 03

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



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

05 Metals

05 01 Maintenance of Metals (05)

05 01 50 Maintenance of Metal Fabrications (05 01)

- 05 01 50 51 **Cleaning of Metal Fabrications** (05 01 50)
See CSI section 09 01 90 52-0012 for cleaning of metal surfaces.
- 05 01 50 61 **Repair of Metal Fabrications** (05 01 50)
See CSI section 05 05 21 00-0001 for welding, 05 05 23 00-0008 for torch cutting.
- 05 01 50 63 **Refinishing of Metal Fabrications** (05 01 50)
See CSI section 05 12 23 00-0143 for field applied cold galvanizing, 05 12 23 00-0145 for metal grinding.

05 01 70 Maintenance of Decorative Metal (05 01)

- 05 01 70 51 **Cleaning of Decorative Metal** (05 01 70)
See CSI section 09 01 90 52-0012 for cleaning of metal surfaces.
- 05 01 70 61 **Repair of Decorative Metal** (05 01 70)
See CSI section 05 05 21 00-0001 for welding, 05 05 23 00-0008 for torch cutting.
- 05 01 70 63 **Refinishing of Decorative Metal** (05 01 70)
See CSI section 05 12 23 00-0143 for field applied cold galvanizing, 05 12 23 00-0145 for metal grinding.

05 05 Common Work Results for Metals (05)

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

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

05 05 19 00-0001	Concrete And Masonry Anchors (05 05 19)	
05 05 19 00-0002	Expansion Anchors (05 05 19 00-0001)	
	Note: Includes drilling.	
05 05 19 00-0003	Wedge Expansion Bolt Anchors (05 05 19 00-0002)	
05 05 19 00-0004	Zinc Plated Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)	
	Note: Includes nut and washer.	
05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.15
	For >10 To 50, Deduct	-0.67
	For >50 To 100, Deduct	-1.36
	For >100, Deduct	-2.72
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.27
	For >10 To 50, Deduct	-0.67
	For >50 To 100, Deduct	-1.36
	For >100, Deduct	-2.73
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	14.70
	For >10 To 50, Deduct	-0.69
	For >50 To 100, Deduct	-1.40
	For >100, Deduct	-2.80
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.35
	For >10 To 50, Deduct	-0.82
	For >50 To 100, Deduct	-1.66
	For >100, Deduct	-3.31
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.44
	For >10 To 50, Deduct	-0.82
	For >50 To 100, Deduct	-1.66
	For >100, Deduct	-3.32
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.47
	For >10 To 50, Deduct	-0.82
	For >50 To 100, Deduct	-1.66
	For >100, Deduct	-3.32
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.81
	For >10 To 50, Deduct	-0.82
	For >50 To 100, Deduct	-1.67
	For >100, Deduct	-3.34
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.09
	For >10 To 50, Deduct	-1.16
	For >50 To 100, Deduct	-2.37
	For >100, Deduct	-4.73
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.16
	For >10 To 50, Deduct	-1.16
	For >50 To 100, Deduct	-2.37
	For >100, Deduct	-4.74
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.30
	For >10 To 50, Deduct	-1.16
	For >50 To 100, Deduct	-2.37
	For >100, Deduct	-4.74
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.67
	For >10 To 50, Deduct	-1.16
	For >50 To 100, Deduct	-2.38
	For >100, Deduct	-4.76

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0016	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.19	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.39	
			For >100, Deduct	-4.79	
05 05 19 00-0017	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	32.44	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-2.96	
			For >100, Deduct	-5.91	
05 05 19 00-0018	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	32.55	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-2.96	
			For >100, Deduct	-5.92	
05 05 19 00-0019	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	32.79	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-2.97	
			For >100, Deduct	-5.93	
05 05 19 00-0020	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.25	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-2.98	
			For >100, Deduct	-5.95	
05 05 19 00-0021	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	33.71	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-2.99	
			For >100, Deduct	-5.98	
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	37.36	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.08	
			For >100, Deduct	-6.16	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	40.48	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.16	
			For >100, Deduct	-6.32	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.11	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.53	
			For >100, Deduct	-7.06	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.21	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.53	
			For >100, Deduct	-7.07	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.76	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.55	
			For >100, Deduct	-7.10	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	40.43	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.56	
			For >100, Deduct	-7.13	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	41.20	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.58	
			For >100, Deduct	-7.17	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	44.13	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.66	
			For >100, Deduct	-7.32	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	48.02	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.76	
			For >100, Deduct	-7.51	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	52.40	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.86	
			For >100, Deduct	-7.73	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	51.41	
			For >10 To 50, Deduct	-1.85	
			For >50 To 100, Deduct	-4.06	
			For >100, Deduct	-8.11	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	53.71	
			For >10 To 50, Deduct	-1.85	
			For >50 To 100, Deduct	-4.11	
			For >100, Deduct	-8.23	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	56.77	
			For >10 To 50, Deduct	-1.85	
			For >50 To 100, Deduct	-4.19	
			For >100, Deduct	-8.38	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	63.90	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-5.18	
			For >100, Deduct	-10.37	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	68.24	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-5.29	
			For >100, Deduct	-10.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	72.55	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-5.40	
			For >100, Deduct	-10.80	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	83.11	
			For >10 To 50, Deduct	-3.06	
			For >50 To 100, Deduct	-6.67	
			For >100, Deduct	-13.34	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	86.21	
			For >10 To 50, Deduct	-3.06	
			For >50 To 100, Deduct	-6.75	
			For >100, Deduct	-13.49	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003) Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.28	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.39	
			For >100, Deduct	-2.78	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.71	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.40	
			For >100, Deduct	-2.80	
05 05 19 00-0043	EA		1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.33	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.88	
05 05 19 00-0044	EA		3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.44	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.71	
			For >100, Deduct	-3.42	
05 05 19 00-0045	EA		3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.81	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.44	
05 05 19 00-0046	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.08	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.45	
05 05 19 00-0047	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.11	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.78	
			For >100, Deduct	-3.55	
05 05 19 00-0048	EA		1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.77	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.48	
			For >100, Deduct	-4.97	
05 05 19 00-0049	EA		1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.47	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.50	
			For >100, Deduct	-5.00	
05 05 19 00-0050	EA		1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.87	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.51	
			For >100, Deduct	-5.02	
05 05 19 00-0051	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.72	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.56	
			For >100, Deduct	-5.11	
05 05 19 00-0052	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.51	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.63	
			For >100, Deduct	-5.25	
05 05 19 00-0053	EA		5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.94	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.19	
			For >100, Deduct	-6.39	
05 05 19 00-0054	EA		5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	43.75	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.24	
			For >100, Deduct	-6.48	
05 05 19 00-0055	EA		5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.71	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.29	
			For >100, Deduct	-6.58	
05 05 19 00-0056	EA		5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	48.31	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.35	
			For >100, Deduct	-6.71	
05 05 19 00-0057	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	59.73	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.64	
			For >100, Deduct	-7.28	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0058	EA		3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.06	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.81	
			For >100, Deduct	-7.61	
05 05 19 00-0059	EA		3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.73	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.90	
			For >100, Deduct	-7.79	
05 05 19 00-0060	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	56.87	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.98	
			For >100, Deduct	-7.95	
05 05 19 00-0061	EA		3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	57.26	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.99	
			For >100, Deduct	-7.97	
05 05 19 00-0062	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.21	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-4.06	
			For >100, Deduct	-8.12	
05 05 19 00-0063	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	67.87	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-4.25	
			For >100, Deduct	-8.50	
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	78.66	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-4.52	
			For >100, Deduct	-9.04	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	79.55	
			For >10 To 50, Deduct	-1.85	
			For >50 To 100, Deduct	-4.76	
			For >100, Deduct	-9.52	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	114.63	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-6.45	
			For >100, Deduct	-12.90	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	130.59	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-6.85	
			For >100, Deduct	-13.70	
05 05 19 00-0068 316 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0063)					
Note: Includes nut and washer.					
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.65	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.40	
			For >100, Deduct	-2.79	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.50	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.89	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.65	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.74	
			For >100, Deduct	-3.48	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.29	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.75	
			For >100, Deduct	-3.51	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.46	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.76	
			For >100, Deduct	-3.52	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.52	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.84	
			For >100, Deduct	-3.67	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.70	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.56	
			For >100, Deduct	-5.11	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.47	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.60	
			For >100, Deduct	-5.20	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.70	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.68	
			For >100, Deduct	-5.36	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.50	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.70	
			For >100, Deduct	-5.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	51.84	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.44	
			For >100, Deduct	-6.88	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	52.81	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.47	
			For >100, Deduct	-6.93	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	63.90	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-4.15	
			For >100, Deduct	-8.30	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	67.93	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-4.25	
			For >100, Deduct	-8.50	
05 05 19 00-0083 Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)					
Note: Includes nut and washer.					
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	28.09	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.44	
			For >100, Deduct	-4.88	
05 05 19 00-0085	EA		1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	29.39	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.47	
			For >100, Deduct	-4.95	
05 05 19 00-0086	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	30.67	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.51	
			For >100, Deduct	-5.01	
05 05 19 00-0087	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	31.33	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.52	
			For >100, Deduct	-5.05	
05 05 19 00-0088	EA		5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	37.91	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.09	
			For >100, Deduct	-6.19	
05 05 19 00-0089	EA		5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	36.36	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.05	
			For >100, Deduct	-6.11	
05 05 19 00-0090	EA		3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	48.53	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.77	
			For >100, Deduct	-7.53	
05 05 19 00-0091	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	49.95	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.80	
			For >100, Deduct	-7.61	
05 05 19 00-0092	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	56.95	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.98	
			For >100, Deduct	-7.96	
05 05 19 00-0093	EA		1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	62.71	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-5.15	
			For >100, Deduct	-10.31	
05 05 19 00-0094	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	66.74	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-5.26	
			For >100, Deduct	-10.51	
05 05 19 00-0095	EA		1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	70.72	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-5.35	
			For >100, Deduct	-10.71	
05 05 19 00-0096 Concrete Sleeve Anchors (05 05 19 00-0002)					
05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors (05 05 19 00-0096)					
Note: Includes nut and washer.					
05 05 19 00-0098	EA		1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.24	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.38	
			For >100, Deduct	-2.77	
05 05 19 00-0099	EA		1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.41	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.39	
			For >100, Deduct	-2.78	
05 05 19 00-0100	EA		1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.61	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.39	
			For >100, Deduct	-2.79	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 19 00-0101	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.00	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.45	
		For >100, Deduct	-2.91	
05 05 19 00-0102	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	15.15	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.46	
		For >100, Deduct	-2.91	
05 05 19 00-0103	EA	3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.00	
		For >10 To 50, Deduct	-0.81	
		For >50 To 100, Deduct	-1.65	
		For >100, Deduct	-3.29	
05 05 19 00-0104	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.28	
		For >10 To 50, Deduct	-0.81	
		For >50 To 100, Deduct	-1.65	
		For >100, Deduct	-3.31	
05 05 19 00-0105	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	17.55	
		For >10 To 50, Deduct	-0.81	
		For >50 To 100, Deduct	-1.66	
		For >100, Deduct	-3.32	
05 05 19 00-0106	EA	1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	24.45	
		For >10 To 50, Deduct	-1.16	
		For >50 To 100, Deduct	-2.35	
		For >100, Deduct	-4.70	
05 05 19 00-0107	EA	1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	24.80	
		For >10 To 50, Deduct	-1.16	
		For >50 To 100, Deduct	-2.36	
		For >100, Deduct	-4.71	
05 05 19 00-0108	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.11	
		For >10 To 50, Deduct	-1.16	
		For >50 To 100, Deduct	-2.36	
		For >100, Deduct	-4.73	
05 05 19 00-0109	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	25.47	
		For >10 To 50, Deduct	-1.16	
		For >50 To 100, Deduct	-2.37	
		For >100, Deduct	-4.75	
05 05 19 00-0110	EA	5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	30.61	
		For >10 To 50, Deduct	-1.43	
		For >50 To 100, Deduct	-2.91	
		For >100, Deduct	-5.82	
05 05 19 00-0111	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.14	
		For >10 To 50, Deduct	-1.43	
		For >50 To 100, Deduct	-2.92	
		For >100, Deduct	-5.85	
05 05 19 00-0112	EA	5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.55	
		For >10 To 50, Deduct	-1.43	
		For >50 To 100, Deduct	-2.93	
		For >100, Deduct	-5.87	
05 05 19 00-0113	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.69	
		For >10 To 50, Deduct	-1.43	
		For >50 To 100, Deduct	-2.96	
		For >100, Deduct	-5.92	
05 05 19 00-0114	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	37.40	
		For >10 To 50, Deduct	-1.70	
		For >50 To 100, Deduct	-3.49	
		For >100, Deduct	-6.98	
05 05 19 00-0115	EA	3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	38.39	
		For >10 To 50, Deduct	-1.70	
		For >50 To 100, Deduct	-3.51	
		For >100, Deduct	-7.03	
05 05 19 00-0116	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	39.29	
		For >10 To 50, Deduct	-1.70	
		For >50 To 100, Deduct	-3.54	
		For >100, Deduct	-7.07	
05 05 19 00-0117	EA	3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	40.71	
		For >10 To 50, Deduct	-1.70	
		For >50 To 100, Deduct	-3.57	
		For >100, Deduct	-7.14	
05 05 19 00-0118		304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
		Note: Includes nut and washer.		
05 05 19 00-0119	EA	1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	16.02	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.43	
		For >100, Deduct	-2.86	
05 05 19 00-0120	EA	3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	20.62	
		For >10 To 50, Deduct	-0.81	
		For >50 To 100, Deduct	-1.74	
		For >100, Deduct	-3.47	
05 05 19 00-0121	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	22.34	
		For >10 To 50, Deduct	-0.81	
		For >50 To 100, Deduct	-1.78	
		For >100, Deduct	-3.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	30.50	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.50	
			For >100, Deduct	-5.00	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor.....	33.60	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.58	
			For >100, Deduct	-5.15	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	45.41	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.28	
			For >100, Deduct	-6.56	
05 05 19 00-0125			Concrete Strike Anchors (05 05 19 00-0002)		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	15.05	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.40	
			For >100, Deduct	-2.81	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor.....	15.33	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.41	
			For >100, Deduct	-2.82	
05 05 19 00-0128	EA		5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	16.00	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.48	
			For >100, Deduct	-2.96	
05 05 19 00-0129	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	17.16	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.51	
			For >100, Deduct	-3.02	
05 05 19 00-0130	EA		3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor.....	18.26	
			For >10 To 50, Deduct	-0.81	
			For >50 To 100, Deduct	-1.68	
			For >100, Deduct	-3.36	
05 05 19 00-0131	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	19.13	
			For >10 To 50, Deduct	-0.81	
			For >50 To 100, Deduct	-1.70	
			For >100, Deduct	-3.40	
05 05 19 00-0132	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	19.80	
			For >10 To 50, Deduct	-0.81	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.43	
05 05 19 00-0133	EA		1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	26.60	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.40	
			For >100, Deduct	-4.80	
05 05 19 00-0134	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	27.12	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.41	
			For >100, Deduct	-4.83	
05 05 19 00-0135	EA		1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	28.64	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.45	
			For >100, Deduct	-4.90	
05 05 19 00-0136	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	30.61	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.50	
			For >100, Deduct	-5.00	
05 05 19 00-0137	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	35.18	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.02	
			For >100, Deduct	-6.05	
05 05 19 00-0138	EA		5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	37.00	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.07	
			For >100, Deduct	-6.14	
05 05 19 00-0139	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	38.60	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.11	
			For >100, Deduct	-6.22	
05 05 19 00-0140	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	44.99	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.68	
			For >100, Deduct	-7.36	
05 05 19 00-0141	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	46.69	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.72	
			For >100, Deduct	-7.44	
05 05 19 00-0142			Multi-Set Drop-In Anchors (05 05 19 00-0002)		
05 05 19 00-0143			Zinc Plated Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 05 19 00-0144	EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	19.78		
	For >10 To 50, Deduct	-0.95		
	For >50 To 100, Deduct	-1.92		
	For >100, Deduct	-3.85		
05 05 19 00-0145	EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	24.20		
	For >10 To 50, Deduct	-1.16		
	For >50 To 100, Deduct	-2.35		
	For >100, Deduct	-4.70		
05 05 19 00-0146	EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	29.43		
	For >10 To 50, Deduct	-1.37		
	For >50 To 100, Deduct	-2.79		
	For >100, Deduct	-5.58		
05 05 19 00-0147	EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	33.31		
	For >10 To 50, Deduct	-1.51		
	For >50 To 100, Deduct	-3.09		
	For >100, Deduct	-6.18		
05 05 19 00-0148	EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	39.75		
	For >10 To 50, Deduct	-1.71		
	For >50 To 100, Deduct	-3.56		
	For >100, Deduct	-7.13		
05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)				
Note: Excludes bolt, nut and washer.				
05 05 19 00-0150	EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	23.41		
	For >10 To 50, Deduct	-0.95		
	For >50 To 100, Deduct	-2.01		
	For >100, Deduct	-4.03		
05 05 19 00-0151	EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	31.04		
	For >10 To 50, Deduct	-1.16		
	For >50 To 100, Deduct	-2.52		
	For >100, Deduct	-5.04		
05 05 19 00-0152	EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	38.46		
	For >10 To 50, Deduct	-1.37		
	For >50 To 100, Deduct	-3.02		
	For >100, Deduct	-6.03		
05 05 19 00-0153	EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	47.85		
	For >10 To 50, Deduct	-1.51		
	For >50 To 100, Deduct	-3.45		
	For >100, Deduct	-6.91		
05 05 19 00-0154	EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	64.75		
	For >10 To 50, Deduct	-1.71		
	For >50 To 100, Deduct	-4.19		
	For >100, Deduct	-8.38		
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)				
Note: Excludes bolt, nut and washer.				
05 05 19 00-0156	EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	14.49		
	For >10 To 50, Deduct	-0.69		
	For >50 To 100, Deduct	-1.39		
	For >100, Deduct	-2.78		
05 05 19 00-0157	EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	15.46		
	For >10 To 50, Deduct	-0.72		
	For >50 To 100, Deduct	-1.47		
	For >100, Deduct	-2.93		
05 05 19 00-0158	EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	17.49		
	For >10 To 50, Deduct	-0.81		
	For >50 To 100, Deduct	-1.66		
	For >100, Deduct	-3.32		
05 05 19 00-0159	EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	25.47		
	For >10 To 50, Deduct	-1.16		
	For >50 To 100, Deduct	-2.37		
	For >100, Deduct	-4.75		
05 05 19 00-0160	EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	34.96		
	For >10 To 50, Deduct	-1.43		
	For >50 To 100, Deduct	-3.02		
	For >100, Deduct	-6.04		
05 05 19 00-0161	EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	42.14		
	For >10 To 50, Deduct	-1.70		
	For >50 To 100, Deduct	-3.61		
	For >100, Deduct	-7.21		
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)				
Note: Excludes lag bolt and washer.				
05 05 19 00-0163	EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	14.57		
	For >10 To 50, Deduct	-0.69		
	For >50 To 100, Deduct	-1.39		
	For >100, Deduct	-2.78		
05 05 19 00-0164	EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	17.34		
	For >10 To 50, Deduct	-0.81		
	For >50 To 100, Deduct	-1.66		
	For >100, Deduct	-3.31		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0165	EA		3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	18.04	
			For >10 To 50, Deduct	-0.81	
			For >50 To 100, Deduct	-1.67	
			For >100, Deduct	-3.35	
05 05 19 00-0166	EA		1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	25.44	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.37	
			For >100, Deduct	-4.74	
05 05 19 00-0167	EA		5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	33.87	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-2.99	
			For >100, Deduct	-5.98	
05 05 19 00-0168	EA		3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor	38.21	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.51	
			For >100, Deduct	-7.02	
05 05 19 00-0169			Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170			Chemically Adhered Anchor Rods (05 05 19 00-0169)		
			Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		
05 05 19 00-0171	EA		1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	18.29	
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-1.59	
			For >100, Deduct	-3.18	
05 05 19 00-0172	EA		5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	21.13	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.76	
			For >100, Deduct	-3.52	
05 05 19 00-0173	EA		3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	26.24	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.20	
			For >100, Deduct	-4.39	
05 05 19 00-0174	EA		1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	30.66	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.50	
			For >100, Deduct	-5.01	
05 05 19 00-0175	EA		1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	32.38	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.55	
			For >100, Deduct	-5.09	
05 05 19 00-0176	EA		5/8" x 7" Long Chemically Adhered Anchor Rod.....	40.06	
			For >10 To 50, Deduct	-1.43	
			For >50 To 100, Deduct	-3.15	
			For >100, Deduct	-6.29	
05 05 19 00-0177	EA		3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	51.80	
			For >10 To 50, Deduct	-1.70	
			For >50 To 100, Deduct	-3.85	
			For >100, Deduct	-7.70	
05 05 19 00-0178	EA		7/8" x 10" Long Chemically Adhered Anchor Rod.....	61.11	
			For >10 To 50, Deduct	-1.84	
			For >50 To 100, Deduct	-4.29	
			For >100, Deduct	-8.58	
05 05 19 00-0179	EA		1" x 11-3/4" Long Chemically Adhered Anchor Rod	83.31	
			For >10 To 50, Deduct	-2.39	
			For >50 To 100, Deduct	-5.67	
			For >100, Deduct	-11.34	
05 05 19 00-0180	EA		1-1/4" x 14" Long Chemically Adhered Anchor Rod	118.93	
			For >10 To 50, Deduct	-3.01	
			For >50 To 100, Deduct	-7.49	
			For >100, Deduct	-14.99	
05 05 19 00-0181			Chemical Adhesives For Bolts, Dowels Or Threaded Rod (05 05 19 00-0169)		
			Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Drill a hole 1/16" to 1/4" larger than the diameter of the thread and a depth a minimum of 4-1/2 times the diameter of the bolt. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA		5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	16.94	
			For >10 To 50, Deduct	-0.82	
			For >50 To 100, Deduct	-1.66	
			For >100, Deduct	-3.31	
05 05 19 00-0183	EA		3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	19.84	
			For >10 To 50, Deduct	-0.96	
			For >50 To 100, Deduct	-1.93	
			For >100, Deduct	-3.87	
05 05 19 00-0184	EA		1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	24.09	
			For >10 To 50, Deduct	-1.16	
			For >50 To 100, Deduct	-2.34	
			For >100, Deduct	-4.68	
05 05 19 00-0185	EA		5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.07	
			For >10 To 50, Deduct	-1.24	
			For >50 To 100, Deduct	-2.54	
			For >100, Deduct	-5.07	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 19 00-0186	EA	3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	34.39	
		For >10 To 50, Deduct	-1.52	
		For >50 To 100, Deduct	-3.14	
		For >100, Deduct	-6.28	
05 05 19 00-0187	EA	7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	37.91	
		For >10 To 50, Deduct	-1.63	
		For >50 To 100, Deduct	-3.39	
		For >100, Deduct	-6.79	
05 05 19 00-0188	EA	1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	47.29	
		For >10 To 50, Deduct	-1.97	
		For >50 To 100, Deduct	-4.13	
		For >100, Deduct	-8.26	
05 05 19 00-0189	EA	1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	52.42	
		For >10 To 50, Deduct	-2.13	
		For >50 To 100, Deduct	-4.51	
		For >100, Deduct	-9.01	
05 05 19 00-0190	EA	1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	60.98	
		For >10 To 50, Deduct	-2.41	
		For >50 To 100, Deduct	-5.14	
		For >100, Deduct	-10.28	
05 05 19 00-0191	EA	1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	68.54	
		For >10 To 50, Deduct	-2.63	
		For >50 To 100, Deduct	-5.66	
		For >100, Deduct	-11.32	
05 05 19 00-0192	EA	1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	78.52	
		For >10 To 50, Deduct	-2.86	
		For >50 To 100, Deduct	-6.26	
		For >100, Deduct	-12.52	
05 05 19 00-0193	EA	1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	99.14	
		For >10 To 50, Deduct	-3.36	
		For >50 To 100, Deduct	-7.52	
		For >100, Deduct	-15.05	
05 05 19 00-0194	EA	2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	144.98	
		For >10 To 50, Deduct	-4.06	
		For >50 To 100, Deduct	-9.72	
		For >100, Deduct	-19.44	
05 05 19 00-0195		Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0196	EA	Grout Concrete Anchor Bolt or Threaded Rod.....	5.24	
		For >10 To 50, Deduct	-0.25	
		For >50 To 100, Deduct	-0.51	
		For >100, Deduct	-1.02	
05 05 19 00-0197		Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0198		Tapcon Masonry Screws (05 05 19 00-0197)		
		Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0199	EA	3/16" x 1-1/4" Tapcon Masonry Screw.....	14.02	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.38	
		For >100, Deduct	-2.76	
05 05 19 00-0200	EA	3/16" x 2-1/4" Tapcon Masonry Screw.....	14.10	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.38	
		For >100, Deduct	-2.76	
05 05 19 00-0201	EA	3/16" x 3-1/4" Tapcon Masonry Screw.....	14.29	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.38	
		For >100, Deduct	-2.77	
05 05 19 00-0202	EA	1/4" x 1-1/4" Tapcon Masonry Screw.....	14.12	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.38	
		For >100, Deduct	-2.76	
05 05 19 00-0203	EA	1/4" x 2-1/4" Tapcon Masonry Screw.....	14.22	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.38	
		For >100, Deduct	-2.77	
05 05 19 00-0204	EA	1/4" x 3-1/4" Tapcon Masonry Screw.....	14.44	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.39	
		For >100, Deduct	-2.78	
05 05 19 00-0205		Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0197)		
		Note: Includes drilling. Zinc plated.		
05 05 19 00-0206	EA	3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	15.60	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.42	
		For >100, Deduct	-2.84	
05 05 19 00-0207	EA	3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	16.29	
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.43	
		For >100, Deduct	-2.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0208	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	16.47	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.88	
05 05 19 00-0209	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	16.80	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.45	
			For >100, Deduct	-2.90	
05 05 19 00-0210	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	17.09	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.45	
			For >100, Deduct	-2.91	
05 05 19 00-0211	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	17.68	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.47	
			For >100, Deduct	-2.94	
05 05 19 00-0212	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	18.41	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.98	
05 05 19 00-0213	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	19.09	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.50	
			For >100, Deduct	-3.01	
05 05 19 00-0214	EA		1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	20.98	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.55	
			For >100, Deduct	-3.10	
05 05 19 00-0215	EA		5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	21.21	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.12	
05 05 19 00-0216	EA		5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	22.36	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.59	
			For >100, Deduct	-3.17	
05 05 19 00-0217	EA		5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	23.55	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.62	
			For >100, Deduct	-3.23	
05 05 19 00-0218	EA		5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	24.31	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.64	
			For >100, Deduct	-3.27	
05 05 19 00-0219	EA		3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	23.97	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.63	
			For >100, Deduct	-3.25	
05 05 19 00-0220	EA		3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	25.07	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.65	
			For >100, Deduct	-3.31	
05 05 19 00-0221	EA		3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	27.64	
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.44	
05 05 19 00-0222			Pin Bolt Drives (05 05 19 00-0197)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0223	EA		1/4" x 1" Pin Bolt Drive.....	8.71	
			For >10 To 50, Deduct	-0.41	
			For >50 To 100, Deduct	-0.83	
			For >100, Deduct	-1.67	
05 05 19 00-0224	EA		1/4" x 1-1/4" Pin Bolt Drive.....	8.71	
			For >10 To 50, Deduct	-0.41	
			For >50 To 100, Deduct	-0.83	
			For >100, Deduct	-1.67	
05 05 19 00-0225	EA		1/4" x 1-1/2" Pin Bolt Drive.....	8.77	
			For >10 To 50, Deduct	-0.41	
			For >50 To 100, Deduct	-0.84	
			For >100, Deduct	-1.67	
05 05 19 00-0226	EA		1/4" x 2" Pin Bolt Drive.....	8.79	
			For >10 To 50, Deduct	-0.41	
			For >50 To 100, Deduct	-0.84	
			For >100, Deduct	-1.67	
05 05 19 00-0227			Powder Actuated, Shot-In Place Anchors (05 05 19 00-0197)		
05 05 19 00-0228	EA		0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	2.15	
			For >10 To 50, Deduct	-0.09	
			For >50 To 100, Deduct	-0.19	
			For >100, Deduct	-0.39	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 19 00-0229	EA	0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	2.27	
		For >10 To 50, Deduct	-0.10	
		For >50 To 100, Deduct	-0.20	
		For >100, Deduct	-0.40	
05 05 19 00-0230	EA	0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	2.45	
		For >10 To 50, Deduct	-0.10	
		For >50 To 100, Deduct	-0.22	
		For >100, Deduct	-0.43	
05 05 19 00-0231	EA	0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor	2.71	
		For >10 To 50, Deduct	-0.11	
		For >50 To 100, Deduct	-0.23	
		For >100, Deduct	-0.46	
05 05 19 00-0232	EA	0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor	2.84	
		For >10 To 50, Deduct	-0.11	
		For >50 To 100, Deduct	-0.24	
		For >100, Deduct	-0.47	
05 05 19 00-0233		Powder Actuated, Shot-In Place Anchors With Exposed Thread (05 05 19 00-0197)	2.52	
05 05 19 00-0234	EA	0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor	2.52	
		For >10 To 50, Deduct	-0.10	
		For >50 To 100, Deduct	-0.21	
		For >100, Deduct	-0.41	
05 05 19 00-0235	EA	0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor	3.39	
		For >10 To 50, Deduct	-0.12	
		For >50 To 100, Deduct	-0.26	
		For >100, Deduct	-0.52	
05 05 21 Fastening Methods for Metal		(05 05)		
05 05 21 00-0001		Welding (05 05 21)		
05 05 21 00-0002		Minimum Charge For Welding (05 05 21 00-0001)	518.03	
05 05 21 00-0003	EA	Welding Minimum Charge.....	518.03	
		Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004		Spot Welding (05 05 21 00-0001)		
		See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005	EA	Up To 15 Spot Weldings, Welds Up To 1" Length Each	12.92	
		For Aluminum Welding, Add	2.05	
		For Stainless Steel Welding, Add	3.37	
05 05 21 00-0006	EA	>15 Spot Weldings, Welds Up To 1" Length Each.....	10.09	
		For Aluminum Welding, Add	1.62	
		For Stainless Steel Welding, Add	2.66	
05 05 21 00-0007		Field Welding (Seam And Stitch Welding) (05 05 21 00-0001)		
05 05 21 00-0008		Vertical Fillet Welds (05 05 21 00-0007)		
		Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009	LF	1/8" Vertical Fillet Weld	8.43	
		For Aluminum Welding, Add	1.81	
		For Stainless Steel Welding, Add	2.79	
		For Up To 25, Add	2.72	
		For >25 To 50, Add	1.93	
05 05 21 00-0010	LF	3/16" Vertical Fillet Weld	16.18	
		For Aluminum Welding, Add	3.11	
		For Stainless Steel Welding, Add	4.89	
		For Up To 25, Add	5.38	
		For >25 To 50, Add	3.82	
05 05 21 00-0011	LF	1/4" Vertical Fillet Weld	24.29	
		For Aluminum Welding, Add	4.68	
		For Stainless Steel Welding, Add	7.36	
		For Up To 25, Add	8.07	
		For >25 To 50, Add	5.73	
05 05 21 00-0012	LF	5/16" Vertical Fillet Weld	32.06	
		For Aluminum Welding, Add	6.20	
		For Stainless Steel Welding, Add	9.76	
		For Up To 25, Add	10.64	
		For >25 To 50, Add	7.55	
05 05 21 00-0013	LF	3/8" Vertical Fillet Weld	40.46	
		For Aluminum Welding, Add	7.78	
		For Stainless Steel Welding, Add	12.25	
		For Up To 25, Add	13.45	
		For >25 To 50, Add	9.55	
05 05 21 00-0014	LF	7/16" Vertical Fillet Weld	46.81	
		For Aluminum Welding, Add	8.38	
		For Stainless Steel Welding, Add	13.40	
		For Up To 25, Add	15.82	
		For >25 To 50, Add	11.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0015	LF		1/2" Vertical Fillet Weld.....	55.35	
			For Aluminum Welding, Add	10.69	
			For Stainless Steel Welding, Add	16.82	
			For Up To 25, Add	18.38	
			For >25 To 50, Add	13.04	
05 05 21 00-0016	LF		9/16" Vertical Fillet Weld.....	64.46	
			For Aluminum Welding, Add	11.81	
			For Stainless Steel Welding, Add	18.79	
			For Up To 25, Add	21.67	
			For >25 To 50, Add	15.40	
05 05 21 00-0017	LF		5/8" Vertical Fillet Weld.....	74.76	
			For Aluminum Welding, Add	13.75	
			For Stainless Steel Welding, Add	21.86	
			For Up To 25, Add	25.11	
			For >25 To 50, Add	17.85	
05 05 21 00-0018	LF		3/4" Vertical Fillet Weld.....	101.30	
			For Aluminum Welding, Add	19.55	
			For Stainless Steel Welding, Add	30.76	
			For Up To 25, Add	33.64	
			For >25 To 50, Add	23.88	
05 05 21 00-0019	LF		7/8" Vertical Fillet Weld.....	149.15	
			For Aluminum Welding, Add	27.22	
			For Stainless Steel Welding, Add	43.35	
			For Up To 25, Add	50.18	
			For >25 To 50, Add	35.67	
05 05 21 00-0020	LF		1" Vertical Fillet Weld.....	201.64	
			For Aluminum Welding, Add	38.38	
			For Stainless Steel Welding, Add	60.57	
			For Up To 25, Add	67.19	
			For >25 To 50, Add	47.70	
05 05 21 00-0021			Horizontal Or Flat Fillet Welds (05 05 21 00-0007)		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0022	LF		1/8" Horizontal Or Flat Fillet Weld.....	7.14	
			For Aluminum Welding, Add	1.62	
			For Stainless Steel Welding, Add	2.47	
			For Up To 25, Add	2.27	
			For >25 To 50, Add	1.60	
05 05 21 00-0023	LF		3/16" Horizontal Or Flat Fillet Weld.....	13.77	
			For Aluminum Welding, Add	2.78	
			For Stainless Steel Welding, Add	4.34	
			For Up To 25, Add	4.52	
			For >25 To 50, Add	3.20	
05 05 21 00-0024	LF		1/4" Horizontal Or Flat Fillet Weld.....	20.59	
			For Aluminum Welding, Add	4.16	
			For Stainless Steel Welding, Add	6.48	
			For Up To 25, Add	6.76	
			For >25 To 50, Add	4.79	
05 05 21 00-0025	LF		5/16" Horizontal Or Flat Fillet Weld.....	27.25	
			For Aluminum Welding, Add	5.55	
			For Stainless Steel Welding, Add	8.64	
			For Up To 25, Add	8.93	
			For >25 To 50, Add	6.32	
05 05 21 00-0026	LF		3/8" Horizontal Or Flat Fillet Weld.....	34.36	
			For Aluminum Welding, Add	6.94	
			For Stainless Steel Welding, Add	10.82	
			For Up To 25, Add	11.28	
			For >25 To 50, Add	8.00	
05 05 21 00-0027	LF		7/16" Horizontal Or Flat Fillet Weld.....	39.53	
			For Aluminum Welding, Add	7.36	
			For Stainless Steel Welding, Add	11.67	
			For Up To 25, Add	13.24	
			For >25 To 50, Add	9.41	
05 05 21 00-0028	LF		1/2" Horizontal Or Flat Fillet Weld.....	46.95	
			For Aluminum Welding, Add	9.54	
			For Stainless Steel Welding, Add	14.86	
			For Up To 25, Add	15.39	
			For >25 To 50, Add	10.91	
05 05 21 00-0029	LF		9/16" Horizontal Or Flat Fillet Weld.....	54.58	
			For Aluminum Welding, Add	10.47	
			For Stainless Steel Welding, Add	16.50	
			For Up To 25, Add	18.15	
			For >25 To 50, Add	12.89	
05 05 21 00-0030	LF		5/8" Horizontal Or Flat Fillet Weld.....	63.71	
			For Aluminum Welding, Add	12.51	
			For Stainless Steel Welding, Add	19.63	
			For Up To 25, Add	21.07	
			For >25 To 50, Add	14.94	
05 05 21 00-0031	LF		3/4" Horizontal Or Flat Fillet Weld.....	86.02	
			For Aluminum Welding, Add	17.47	
			For Stainless Steel Welding, Add	27.21	
			For Up To 25, Add	28.20	
			For >25 To 50, Add	19.98	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0032	LF		7/8" Horizontal Or Flat Fillet Weld.....	125.11	
			For Aluminum Welding, Add	23.30	
			For Stainless Steel Welding, Add	36.94	
			For Up To 25, Add	41.90	
			For >25 To 50, Add	29.77	
05 05 21 00-0033	LF		1" Horizontal Or Flat Fillet Weld.....	170.56	
			For Aluminum Welding, Add	34.11	
			For Stainless Steel Welding, Add	53.30	
			For Up To 25, Add	56.14	
			For >25 To 50, Add	39.80	

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

05 05 23 00-0002	EA		>1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	38.51	
			For Aluminum, Deduct	-3.85	
			For Stainless Steel, Add	4.81	
			For >5 To 10, Deduct	-3.85	
			For >10 To 25, Deduct	-9.63	
			For >25 To 50, Deduct	-13.48	
			For >50, Deduct	-19.26	
05 05 23 00-0003	EA		>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	51.59	
			For Aluminum, Deduct	-5.16	
			For Stainless Steel, Add	6.45	
			For >5 To 10, Deduct	-5.16	
			For >10 To 25, Deduct	-12.90	
			For >25 To 50, Deduct	-18.06	
			For >50, Deduct	-25.80	
05 05 23 00-0004	EA		>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	51.59	
			For Aluminum, Deduct	-5.16	
			For Stainless Steel, Add	6.45	
			For >5 To 10, Deduct	-5.16	
			For >10 To 25, Deduct	-12.90	
			For >25 To 50, Deduct	-18.06	
			For >50, Deduct	-25.80	
05 05 23 00-0005	EA		Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	34.39	
			For Aluminum, Deduct	-3.44	
			For Stainless Steel, Add	4.30	
			For >5 To 10, Deduct	-3.44	
			For >10 To 25, Deduct	-8.60	
			For >25 To 50, Deduct	-12.04	
			For >50, Deduct	-17.20	
05 05 23 00-0006	EA		>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	45.39	
			For Aluminum, Deduct	-4.54	
			For Stainless Steel, Add	5.67	
			For >5 To 10, Deduct	-4.54	
			For >10 To 25, Deduct	-11.35	
			For >25 To 50, Deduct	-15.89	
			For >50, Deduct	-22.70	
05 05 23 00-0007	EA		>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	55.03	
			For >5 To 10, Deduct	-5.50	
			For >10 To 25, Deduct	-13.76	
			For >25 To 50, Deduct	-19.26	
			For >50, Deduct	-27.52	

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

05 05 23 00-0009	LF		Torch Cutting, Milled Steel Up To 1/4" Thick	7.16	

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

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

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

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

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

05 05 23 00-0013	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	14.48	1.45
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.53	
05 05 23 00-0014	EA		1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	15.89	1.45
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.30	
			For >100, Deduct	-2.60	
05 05 23 00-0015	EA		5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	15.93	1.45
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.30	
			For >100, Deduct	-2.60	
05 05 23 00-0016	EA		5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	18.93	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.50	
			For >100, Deduct	-3.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0017	EA	3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	18.29	1.45	
		For>10 To 50, Deduct	-0.60		
		For>50 To 100, Deduct	-1.36		
		For>100, Deduct	-2.72		
05 05 23 00-0018	EA	3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	21.87	1.65	
		For>10 To 50, Deduct	-0.69		
		For>50 To 100, Deduct	-1.58		
		For>100, Deduct	-3.15		
05 05 23 00-0019	EA	3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	27.45	1.73	
		For>10 To 50, Deduct	-0.72		
		For>50 To 100, Deduct	-1.76		
		For>100, Deduct	-3.53		
05 05 23 00-0020	EA	3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	29.46	1.81	
		For>10 To 50, Deduct	-0.76		
		For>50 To 100, Deduct	-1.87		
		For>100, Deduct	-3.74		
05 05 23 00-0021	EA	7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	21.82	1.57	
		For>10 To 50, Deduct	-0.65		
		For>50 To 100, Deduct	-1.53		
		For>100, Deduct	-3.05		
05 05 23 00-0022	EA	7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	26.21	1.73	
		For>10 To 50, Deduct	-0.72		
		For>50 To 100, Deduct	-1.73		
		For>100, Deduct	-3.46		
05 05 23 00-0023	EA	1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	30.72	1.81	
		For>10 To 50, Deduct	-0.76		
		For>50 To 100, Deduct	-1.90		
		For>100, Deduct	-3.80		
05 05 23 00-0024	EA	1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	43.48	1.90	
		For>10 To 50, Deduct	-0.79		
		For>50 To 100, Deduct	-2.28		
		For>100, Deduct	-4.56		
05 05 23 00-0025	EA	1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	50.85	2.15	
		For>10 To 50, Deduct	-0.90		
		For>50 To 100, Deduct	-2.62		
		For>100, Deduct	-5.23		
05 05 23 00-0026	EA	1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	57.16	2.30	
		For>10 To 50, Deduct	-0.96		
		For>50 To 100, Deduct	-2.87		
		For>100, Deduct	-5.74		
05 05 23 00-0027	Galvanized A307B Heavy Hex Bolts (05 05 23 00-0011)				
05 05 23 00-0028	EA	1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	15.17	1.45	
		For>10 To 50, Deduct	-0.60		
		For>50 To 100, Deduct	-1.28		
		For>100, Deduct	-2.56		
05 05 23 00-0029	EA	1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	16.35	1.45	
		For>10 To 50, Deduct	-0.60		
		For>50 To 100, Deduct	-1.31		
		For>100, Deduct	-2.62		
05 05 23 00-0030	EA	5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	17.63	1.45	
		For>10 To 50, Deduct	-0.60		
		For>50 To 100, Deduct	-1.34		
		For>100, Deduct	-2.69		
05 05 23 00-0031	EA	5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	20.63	1.65	
		For>10 To 50, Deduct	-0.69		
		For>50 To 100, Deduct	-1.55		
		For>100, Deduct	-3.09		
05 05 23 00-0032	EA	3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	20.23	1.45	
		For>10 To 50, Deduct	-0.60		
		For>50 To 100, Deduct	-1.41		
		For>100, Deduct	-2.82		
05 05 23 00-0033	EA	3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	25.45	1.65	
		For>10 To 50, Deduct	-0.69		
		For>50 To 100, Deduct	-1.67		
		For>100, Deduct	-3.33		
05 05 23 00-0034	EA	3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt	33.62	1.73	
		For>10 To 50, Deduct	-0.72		
		For>50 To 100, Deduct	-1.92		
		For>100, Deduct	-3.84		
05 05 23 00-0035	EA	3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt	39.45	1.81	
		For>10 To 50, Deduct	-0.76		
		For>50 To 100, Deduct	-2.12		
		For>100, Deduct	-4.24		
05 05 23 00-0036	EA	7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	26.89	1.57	
		For>10 To 50, Deduct	-0.65		
		For>50 To 100, Deduct	-1.65		
		For>100, Deduct	-3.30		
05 05 23 00-0037	EA	7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	31.92	1.73	
		For>10 To 50, Deduct	-0.72		
		For>50 To 100, Deduct	-1.87		
		For>100, Deduct	-3.75		

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0038	EA	1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	38.10	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-2.09	
		For >100, Deduct	-4.17	
05 05 23 00-0039	EA	1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	56.84	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.61	
		For >100, Deduct	-5.22	
05 05 23 00-0040	EA	1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	56.83	2.15
		For >10 To 50, Deduct	-0.90	
		For >50 To 100, Deduct	-2.77	
		For >100, Deduct	-5.53	
05 05 23 00-0041	EA	1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	71.01	2.30
		For >10 To 50, Deduct	-0.96	
		For >50 To 100, Deduct	-3.22	
		For >100, Deduct	-6.43	
05 05 23 00-0042		A325 High Strength Structural Bolts (05 05 23 00-0010)		
		Note: Includes A325 heavy hex nut and two structural washers.		
05 05 23 00-0043		Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0042)		
		Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0044	EA	1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.15	1.45
		For >10 To 50, Deduct	-0.60	
		For >50 To 100, Deduct	-1.26	
		For >100, Deduct	-2.51	
05 05 23 00-0045	EA	1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	14.46	1.45
		For >10 To 50, Deduct	-0.60	
		For >50 To 100, Deduct	-1.26	
		For >100, Deduct	-2.53	
05 05 23 00-0046	EA	5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.46	1.45
		For >10 To 50, Deduct	-0.60	
		For >50 To 100, Deduct	-1.29	
		For >100, Deduct	-2.58	
05 05 23 00-0047	EA	5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	18.96	1.65
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.51	
		For >100, Deduct	-3.01	
05 05 23 00-0048	EA	5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	21.94	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.63	
		For >100, Deduct	-3.25	
05 05 23 00-0049	EA	3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	16.84	1.45
		For >10 To 50, Deduct	-0.60	
		For >50 To 100, Deduct	-1.32	
		For >100, Deduct	-2.65	
05 05 23 00-0050	EA	3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	20.43	1.65
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.54	
		For >100, Deduct	-3.08	
05 05 23 00-0051	EA	3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	23.25	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.66	
		For >100, Deduct	-3.32	
05 05 23 00-0052	EA	3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	28.58	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-1.85	
		For >100, Deduct	-3.70	
05 05 23 00-0053	EA	7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	19.54	1.57
		For >10 To 50, Deduct	-0.65	
		For >50 To 100, Deduct	-1.47	
		For >100, Deduct	-2.94	
05 05 23 00-0054	EA	7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	23.79	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.67	
		For >100, Deduct	-3.34	
05 05 23 00-0055	EA	7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	27.15	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-1.81	
		For >100, Deduct	-3.62	
05 05 23 00-0056	EA	7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	29.42	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-1.93	
		For >100, Deduct	-3.85	
05 05 23 00-0057	EA	1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	21.59	1.63
		For >10 To 50, Deduct	-0.68	
		For >50 To 100, Deduct	-1.56	
		For >100, Deduct	-3.12	
05 05 23 00-0058	EA	1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	25.97	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-1.78	
		For >100, Deduct	-3.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0059	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	30.08	1.90
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-1.94	
			For >100, Deduct	-3.89	
05 05 23 00-0060	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	38.51	2.03
			For >10 To 50, Deduct	-0.85	
			For >50 To 100, Deduct	-2.23	
			For >100, Deduct	-4.46	
05 05 23 00-0061	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	36.77	2.03
			For >10 To 50, Deduct	-0.85	
			For >50 To 100, Deduct	-2.19	
			For >100, Deduct	-4.38	
05 05 23 00-0062	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	41.66	2.15
			For >10 To 50, Deduct	-0.90	
			For >50 To 100, Deduct	-2.39	
			For >100, Deduct	-4.77	
05 05 23 00-0063	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	48.90	2.30
			For >10 To 50, Deduct	-0.96	
			For >50 To 100, Deduct	-2.66	
			For >100, Deduct	-5.33	
05 05 23 00-0064	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	57.40	2.47
			For >10 To 50, Deduct	-1.02	
			For >50 To 100, Deduct	-2.97	
			For >100, Deduct	-5.94	
05 05 23 00-0065			Galvanized A325 High Strength Structural Bolts (05 05 23 00-0042)		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0066	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt	14.78	1.45
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.55	
05 05 23 00-0067	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	15.00	1.45
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.28	
			For >100, Deduct	-2.56	
05 05 23 00-0068	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	16.77	1.45
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.32	
			For >100, Deduct	-2.64	
05 05 23 00-0069	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	19.89	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.53	
			For >100, Deduct	-3.06	
05 05 23 00-0070	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	21.05	1.73
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.60	
			For >100, Deduct	-3.21	
05 05 23 00-0071	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	17.44	1.45
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.34	
			For >100, Deduct	-2.68	
05 05 23 00-0072	EA		3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	21.19	1.65
			For >10 To 50, Deduct	-0.69	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.12	
05 05 23 00-0073	EA		3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	24.43	1.73
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.69	
			For >100, Deduct	-3.38	
05 05 23 00-0074	EA		3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	31.38	1.81
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-1.92	
			For >100, Deduct	-3.84	
05 05 23 00-0075	EA		7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	23.16	1.57
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.12	
05 05 23 00-0076	EA		7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	25.93	1.73
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.45	
05 05 23 00-0077	EA		7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	29.74	1.81
			For >10 To 50, Deduct	-0.76	
			For >50 To 100, Deduct	-1.88	
			For >100, Deduct	-3.75	
05 05 23 00-0078	EA		7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	37.20	1.90
			For >10 To 50, Deduct	-0.79	
			For >50 To 100, Deduct	-2.12	
			For >100, Deduct	-4.24	
05 05 23 00-0079	EA		1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	24.40	1.63
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.63	
			For >100, Deduct	-3.26	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0080	EA	1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	32.42	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-1.94	
		For >100, Deduct	-3.89	
05 05 23 00-0081	EA	1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	35.48	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.08	
		For >100, Deduct	-4.16	
05 05 23 00-0082	EA	1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	45.17	2.03
		For >10 To 50, Deduct	-0.85	
		For >50 To 100, Deduct	-2.40	
		For >100, Deduct	-4.80	
05 05 23 00-0083	EA	1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	44.90	2.03
		For >10 To 50, Deduct	-0.85	
		For >50 To 100, Deduct	-2.39	
		For >100, Deduct	-4.78	
05 05 23 00-0084	EA	1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	47.87	2.15
		For >10 To 50, Deduct	-0.90	
		For >50 To 100, Deduct	-2.54	
		For >100, Deduct	-5.08	
05 05 23 00-0085	EA	1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	56.01	2.30
		For >10 To 50, Deduct	-0.96	
		For >50 To 100, Deduct	-2.84	
		For >100, Deduct	-5.68	
05 05 23 00-0086	EA	1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	64.82	2.47
		For >10 To 50, Deduct	-1.02	
		For >50 To 100, Deduct	-3.16	
		For >100, Deduct	-6.31	
05 05 23 00-0087		A490 High Strength Structural Bolts (05 05 23 00-0010)		
		Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0088		Plain Finish A490 High Strength Structural Bolts (05 05 23 00-0087)		
05 05 23 00-0089	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	15.95	1.45
		For >10 To 50, Deduct	-0.60	
		For >50 To 100, Deduct	-1.30	
		For >100, Deduct	-2.60	
05 05 23 00-0090	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	22.33	1.65
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.59	
		For >100, Deduct	-3.18	
05 05 23 00-0091	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	23.89	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.68	
		For >100, Deduct	-3.35	
05 05 23 00-0092	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	17.86	1.45
		For >10 To 50, Deduct	-0.60	
		For >50 To 100, Deduct	-1.35	
		For >100, Deduct	-2.70	
05 05 23 00-0093	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	21.60	1.65
		For >10 To 50, Deduct	-0.69	
		For >50 To 100, Deduct	-1.57	
		For >100, Deduct	-3.14	
05 05 23 00-0094	EA	3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	25.12	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.71	
		For >100, Deduct	-3.41	
05 05 23 00-0095	EA	3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	32.23	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-1.94	
		For >100, Deduct	-3.88	
05 05 23 00-0096	EA	7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	20.72	1.57
		For >10 To 50, Deduct	-0.65	
		For >50 To 100, Deduct	-1.50	
		For >100, Deduct	-3.00	
05 05 23 00-0097	EA	7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	24.16	1.73
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.68	
		For >100, Deduct	-3.36	
05 05 23 00-0098	EA	7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	34.77	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-2.00	
		For >100, Deduct	-4.01	
05 05 23 00-0099	EA	1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	24.34	1.63
		For >10 To 50, Deduct	-0.68	
		For >50 To 100, Deduct	-1.63	
		For >100, Deduct	-3.25	
05 05 23 00-0100	EA	1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	29.07	1.81
		For >10 To 50, Deduct	-0.76	
		For >50 To 100, Deduct	-1.86	
		For >100, Deduct	-3.72	
05 05 23 00-0101	EA	1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	33.41	1.90
		For >10 To 50, Deduct	-0.79	
		For >50 To 100, Deduct	-2.03	
		For >100, Deduct	-4.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0102	EA		1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	41.69	2.03
			For >10 To 50, Deduct	-0.85	
			For >50 To 100, Deduct	-2.31	
			For >100, Deduct	-4.62	
05 05 23 00-0103	EA		1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	53.40	2.15
			For >10 To 50, Deduct	-0.90	
			For >50 To 100, Deduct	-2.68	
			For >100, Deduct	-5.36	
05 05 23 00-0104	EA		1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	56.21	2.30
			For >10 To 50, Deduct	-0.96	
			For >50 To 100, Deduct	-2.85	
			For >100, Deduct	-5.69	
05 05 23 00-0105	EA		1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	58.65	2.47
			For >10 To 50, Deduct	-1.02	
			For >50 To 100, Deduct	-3.00	
			For >100, Deduct	-6.01	
05 05 23 00-0106			Hex Head Bolts (05 05 23 00-0010)		
05 05 23 00-0107			Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0108			1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)		
05 05 23 00-0109	EA		1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.68	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0110	EA		1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.70	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0111	EA		1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0112	EA		1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.82	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0113	EA		1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.12	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0114	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.15	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0115	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0116	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.52	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0117	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.56	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0118	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.75	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0119	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.13	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0120	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.27	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0121	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.46	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0122	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.13	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0123	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.43	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 05 23 00-0124	EA	1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.50		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-0125		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)			
05 05 23 00-0126	EA	5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.75		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-0127	EA	5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.78		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-0128	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.84		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-0129	EA	5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.90		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-0130	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.20		
		For >100 To 250, Deduct		-1.76	
		For >250 To 500, Deduct		-2.20	
		For >500, Deduct		-2.64	
05 05 23 00-0131	EA	5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.32		
		For >100 To 250, Deduct		-1.76	
		For >250 To 500, Deduct		-2.20	
		For >500, Deduct		-2.64	
05 05 23 00-0132	EA	5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.37		
		For >100 To 250, Deduct		-1.76	
		For >250 To 500, Deduct		-2.20	
		For >500, Deduct		-2.64	
05 05 23 00-0133	EA	5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.73		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.26	
		For >500, Deduct		-2.72	
05 05 23 00-0134	EA	5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.91		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.26	
		For >500, Deduct		-2.72	
05 05 23 00-0135	EA	5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.98		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.26	
		For >500, Deduct		-2.72	
05 05 23 00-0136	EA	5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.29		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-0137	EA	5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.36		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-0138	EA	5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.03		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-0139	EA	5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.62		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-0140	EA	5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.92		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-0141	EA	5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-0142		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)			
05 05 23 00-0143	EA	3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.83		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-0144	EA	3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.86		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0145	EA	3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.95	
		For >100 To 250, Deduct	-1.71	
		For >250 To 500, Deduct	-2.14	
		For >500, Deduct	-2.57	
05 05 23 00-0146	EA	3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04	
		For >100 To 250, Deduct	-1.71	
		For >250 To 500, Deduct	-2.14	
		For >500, Deduct	-2.57	
05 05 23 00-0147	EA	3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0148	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.51	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0149	EA	3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.67	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0150	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0151	EA	3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.27	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0152	EA	3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0153	EA	3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.84	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.33	
		For >500, Deduct	-2.79	
05 05 23 00-0154	EA	3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.96	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.33	
		For >500, Deduct	-2.79	
05 05 23 00-0155	EA	3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.03	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.33	
		For >500, Deduct	-2.79	
05 05 23 00-0156	EA	3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.34	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0157	EA	3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.47	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0158	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.65	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0159		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
		23 00-0107)		
05 05 23 00-0160	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.43	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0161	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.56	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0162	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.58	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0163	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.99	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.01	
05 05 23 00-0164	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.18	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.01	
05 05 23 00-0165	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.34	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.01	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0166	EA		7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0167	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.12	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0168	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.35	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0169	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.97	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0170	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.08	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0171	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.37	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0172	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.75	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0173	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.01	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0174	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.52	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0175			1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts /05 05		
			23 00-0107		
05 05 23 00-0176	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.33	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0177	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.48	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0178	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.63	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0179	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.04	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0180	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.20	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0181	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.36	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0182	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.82	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0183	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0184	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.32	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0185	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.60	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0186	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0187	EA	1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.91	
		For >100 To 250, Deduct	-2.10	
		For >250 To 500, Deduct	-2.63	
		For >500, Deduct	-3.16	
05 05 23 00-0188	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.41	
		For >100 To 250, Deduct	-2.15	
		For >250 To 500, Deduct	-2.69	
		For >500, Deduct	-3.23	
05 05 23 00-0189	EA	1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.58	
		For >100 To 250, Deduct	-2.15	
		For >250 To 500, Deduct	-2.69	
		For >500, Deduct	-3.23	
05 05 23 00-0190	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.04	
		For >100 To 250, Deduct	-2.15	
		For >250 To 500, Deduct	-2.69	
		For >500, Deduct	-3.23	
05 05 23 00-0191	EA	1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.53	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0192	EA	1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.70	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0193	EA	1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.36	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0194	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.54	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0195 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05				
23 00-0197)				
05 05 23 00-0196	EA	9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.49	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0197	EA	9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.69	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0198	EA	9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.75	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.94	
05 05 23 00-0199	EA	9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.67	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.01	
05 05 23 00-0200	EA	9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.95	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.01	
05 05 23 00-0201	EA	9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.04	
		For >100 To 250, Deduct	-2.01	
		For >250 To 500, Deduct	-2.51	
		For >500, Deduct	-3.01	
05 05 23 00-0202	EA	9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.32	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.57	
		For >500, Deduct	-3.08	
05 05 23 00-0203	EA	9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.39	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.57	
		For >500, Deduct	-3.08	
05 05 23 00-0204	EA	9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.62	
		For >100 To 250, Deduct	-2.06	
		For >250 To 500, Deduct	-2.57	
		For >500, Deduct	-3.08	
05 05 23 00-0205	EA	9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.91	
		For >100 To 250, Deduct	-2.10	
		For >250 To 500, Deduct	-2.63	
		For >500, Deduct	-3.16	
05 05 23 00-0206	EA	9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.98	
		For >100 To 250, Deduct	-2.10	
		For >250 To 500, Deduct	-2.63	
		For >500, Deduct	-3.16	
05 05 23 00-0207	EA	9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.19	
		For >100 To 250, Deduct	-2.10	
		For >250 To 500, Deduct	-2.63	
		For >500, Deduct	-3.16	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0208	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.66	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0209	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.90	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0210	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.15	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0211	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.62	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0212	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.90	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0213	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.10	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0214	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.39	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0215 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts					(05 05)
05 05 23 00-0216	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.18	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0217	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.31	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0218	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.50	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0219	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.98	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-0220	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.25	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-0221	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.59	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-0222	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.26	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0223	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.77	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0224	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.18	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0225	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.58	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0226	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.64	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0227	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.32	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0228	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.97	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
05 05 23 00-0229	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.51	
		For >100 To 250, Deduct	-2.40	
		For >250 To 500, Deduct	-3.00	
		For >500, Deduct	-3.60	
05 05 23 00-0230	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.15	
		For >100 To 250, Deduct	-2.40	
		For >250 To 500, Deduct	-3.00	
		For >500, Deduct	-3.60	
05 05 23 00-0231	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.07	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0232	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.69	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0233	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.33	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0234	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.82	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0235		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
		23 00-0107)		
05 05 23 00-0236	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0237	EA	3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.92	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0238	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.18	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0239	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.74	
		For >100 To 250, Deduct	-2.25	
		For >250 To 500, Deduct	-2.82	
		For >500, Deduct	-3.38	
05 05 23 00-0240	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.15	
		For >100 To 250, Deduct	-2.25	
		For >250 To 500, Deduct	-2.82	
		For >500, Deduct	-3.38	
05 05 23 00-0241	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.50	
		For >100 To 250, Deduct	-2.25	
		For >250 To 500, Deduct	-2.82	
		For >500, Deduct	-3.38	
05 05 23 00-0242	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.12	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	
05 05 23 00-0243	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.62	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	
05 05 23 00-0244	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.00	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	
05 05 23 00-0245	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.05	
		For >100 To 250, Deduct	-2.35	
		For >250 To 500, Deduct	-2.94	
		For >500, Deduct	-3.52	
05 05 23 00-0246	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.37	
		For >100 To 250, Deduct	-2.35	
		For >250 To 500, Deduct	-2.94	
		For >500, Deduct	-3.52	
05 05 23 00-0247	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.98	
		For >100 To 250, Deduct	-2.35	
		For >250 To 500, Deduct	-2.94	
		For >500, Deduct	-3.52	
05 05 23 00-0248	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.28	
		For >100 To 250, Deduct	-2.40	
		For >250 To 500, Deduct	-3.00	
		For >500, Deduct	-3.60	
05 05 23 00-0249	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.70	
		For >100 To 250, Deduct	-2.40	
		For >250 To 500, Deduct	-3.00	
		For >500, Deduct	-3.60	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0250	EA	3/4"	Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.36	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-0251	EA	3/4"	Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.47	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0252	EA	3/4"	Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.13	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0253	EA	3/4"	Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.01	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0254	EA	3/4"	Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.86	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0255 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)					
05 05 23 00-0256	EA	7/8"	Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.35	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0257	EA	7/8"	Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.58	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0258	EA	7/8"	Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.70	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0259	EA	7/8"	Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.26	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0260	EA	7/8"	Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.91	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0261	EA	7/8"	Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.66	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0262	EA	7/8"	Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.53	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0263	EA	7/8"	Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.63	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0264	EA	7/8"	Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.24	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0265	EA	7/8"	Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.97	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0266	EA	7/8"	Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.33	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0267	EA	7/8"	Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.20	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0268	EA	7/8"	Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.31	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0269	EA	7/8"	Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.19	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0270	EA	7/8"	Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.06	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0271	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.12	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0272	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.03	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0273	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.88	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0274	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.78	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0275			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0107)		
05 05 23 00-0276	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.41	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0277	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.00	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0278	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.23	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0279	EA		1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.49	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0280	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.63	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0281	EA		1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.05	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0282	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.15	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0283	EA		1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.29	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0284	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.10	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0285	EA		1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.65	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0286	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.61	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0287	EA		1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.81	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0288	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.76	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0289	EA		1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.74	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0290	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.77	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0291	EA		1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.88	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0292 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.87	
For >100 To 250, Deduct	-2.69	
For >250 To 500, Deduct	-3.37	
For >500, Deduct	-4.04	
05 05 23 00-0293 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.86	
For >100 To 250, Deduct	-2.69	
For >250 To 500, Deduct	-3.37	
For >500, Deduct	-4.04	
05 05 23 00-0294 Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0295 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0296 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.73	
For >100 To 250, Deduct	-1.71	
For >250 To 500, Deduct	-2.14	
For >500, Deduct	-2.57	
05 05 23 00-0297 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.78	
For >100 To 250, Deduct	-1.71	
For >250 To 500, Deduct	-2.14	
For >500, Deduct	-2.57	
05 05 23 00-0298 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.83	
For >100 To 250, Deduct	-1.71	
For >250 To 500, Deduct	-2.14	
For >500, Deduct	-2.57	
05 05 23 00-0299 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.91	
For >100 To 250, Deduct	-1.71	
For >250 To 500, Deduct	-2.14	
For >500, Deduct	-2.57	
05 05 23 00-0300 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.24	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0301 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.38	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0302 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.55	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.20	
For >500, Deduct	-2.64	
05 05 23 00-0303 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.91	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.72	
05 05 23 00-0304 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.12	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.72	
05 05 23 00-0305 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.25	
For >100 To 250, Deduct	-1.81	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-2.72	
05 05 23 00-0306 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.65	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.79	
05 05 23 00-0307 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.78	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.79	
05 05 23 00-0308 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.90	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.79	
05 05 23 00-0309 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.32	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0310 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.50	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0311 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.69	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0312 5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0313 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.83	
For >100 To 250, Deduct	-1.71	
For >250 To 500, Deduct	-2.14	
For >500, Deduct	-2.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0314	EA		5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.87	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0315	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.93	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0316	EA		5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.04	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0317	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.37	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0318	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.51	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0319	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.76	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0320	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.13	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0321	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.33	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0322	EA		5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.51	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0323	EA		5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.12	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0324	EA		5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.19	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0325	EA		5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.44	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0326	EA		5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.01	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0327	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.35	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0328	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.67	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0329			3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294).....	8.89	
05 05 23 00-0330	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.89	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0331	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.92	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0332	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.03	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0333	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.15	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0334	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.52	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0335	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.66	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0336	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.88	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0337	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.36	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0338	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.87	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0339	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.11	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0340	EA		3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.67	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0341	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.89	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0342	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.28	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0343	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.81	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0344	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.33	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0345	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.74	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0346			7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0347	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.34	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0348	EA		7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.45	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0349	EA		7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.71	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0350	EA		7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.16	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0351	EA		7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.35	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0352	EA		7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.53	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0353	EA		7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.01	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0354	EA		7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.04	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0355	EA		7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.49	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0356	EA		7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.87	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0357	EA		7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.08	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0358	EA		7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.30	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0359	EA		7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.85	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0360	EA		7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.14	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0361	EA		7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.44	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0362			1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0363	EA		1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.48	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0364	EA		1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.62	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0365	EA		1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.77	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0366	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.26	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0367	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.49	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0368	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.74	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0369	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.21	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0370	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.01	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0371	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.06	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0372	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.85	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0373	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.16	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0374	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.96	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0375	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.93	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0376	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.39	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0377	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.55	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0378	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.63	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0379	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.42	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0380	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.53	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0381	EA		1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.96	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0382 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)					
05 05 23 00-0383	EA		9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.91	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0384	EA		9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.17	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0385	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.41	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0386	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.91	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0387	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.23	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0388	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.59	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0389	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.26	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0390	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.65	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0391	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.02	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0392	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.66	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0393	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.05	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0394	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.34	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0395	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.18	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0396	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.71	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0397	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.60	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	



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

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 05 23 00-0398	EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.70		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0399	EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.02		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0400	EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.34		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0401	EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.15		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0402	5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)			
05 05 23 00-0403	EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.42		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0404	EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.51		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0405	EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.59		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0406	EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.07		
	For >100 To 250, Deduct	-2.25		
	For >250 To 500, Deduct	-2.82		
	For >500, Deduct	-3.38		
05 05 23 00-0407	EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.50		
	For >100 To 250, Deduct	-2.25		
	For >250 To 500, Deduct	-2.82		
	For >500, Deduct	-3.38		
05 05 23 00-0408	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.89		
	For >100 To 250, Deduct	-2.25		
	For >250 To 500, Deduct	-2.82		
	For >500, Deduct	-3.38		
05 05 23 00-0409	EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.53		
	For >100 To 250, Deduct	-2.30		
	For >250 To 500, Deduct	-2.88		
	For >500, Deduct	-3.45		
05 05 23 00-0410	EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.28		
	For >100 To 250, Deduct	-2.30		
	For >250 To 500, Deduct	-2.88		
	For >500, Deduct	-3.45		
05 05 23 00-0411	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.68		
	For >100 To 250, Deduct	-2.30		
	For >250 To 500, Deduct	-2.88		
	For >500, Deduct	-3.45		
05 05 23 00-0412	EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.13		
	For >100 To 250, Deduct	-2.35		
	For >250 To 500, Deduct	-2.94		
	For >500, Deduct	-3.52		
05 05 23 00-0413	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.77		
	For >100 To 250, Deduct	-2.35		
	For >250 To 500, Deduct	-2.94		
	For >500, Deduct	-3.52		
05 05 23 00-0414	EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.80		
	For >100 To 250, Deduct	-2.35		
	For >250 To 500, Deduct	-2.94		
	For >500, Deduct	-3.52		
05 05 23 00-0415	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.99		
	For >100 To 250, Deduct	-2.40		
	For >250 To 500, Deduct	-3.00		
	For >500, Deduct	-3.60		
05 05 23 00-0416	EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.83		
	For >100 To 250, Deduct	-2.40		
	For >250 To 500, Deduct	-3.00		
	For >500, Deduct	-3.60		
05 05 23 00-0417	EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.96		
	For >100 To 250, Deduct	-2.40		
	For >250 To 500, Deduct	-3.00		
	For >500, Deduct	-3.60		
05 05 23 00-0418	EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.73		
	For >100 To 250, Deduct	-2.45		
	For >250 To 500, Deduct	-3.06		
	For >500, Deduct	-3.67		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0419 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.86	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0420 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.53	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0421 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.12	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0422 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0423 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.38	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	
05 05 23 00-0424 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.54	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	
05 05 23 00-0425 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.63	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	
05 05 23 00-0426 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.24	
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-2.82	
For >500, Deduct	-3.38	
05 05 23 00-0427 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.66	
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-2.82	
For >500, Deduct	-3.38	
05 05 23 00-0428 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.31	
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-2.82	
For >500, Deduct	-3.38	
05 05 23 00-0429 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.99	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0430 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.40	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0431 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.28	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0432 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.93	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.94	
For >500, Deduct	-3.52	
05 05 23 00-0433 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.65	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.94	
For >500, Deduct	-3.52	
05 05 23 00-0434 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.53	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.94	
For >500, Deduct	-3.52	
05 05 23 00-0435 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.05	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0436 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.96	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0437 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.48	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0438 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.09	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0439 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.56	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	



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

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0440	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.07	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0441	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.45	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0442			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0443	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.80	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0444	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.01	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0445	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.29	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0446	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.82	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0447	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.67	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0448	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.24	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0449	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.91	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0450	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.91	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0451	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.68	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0452	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.29	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0453	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.92	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0454	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.64	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0455	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.86	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0456	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.05	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0457	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.13	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0458	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	29.09	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0459	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	30.26	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0460	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	31.25	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0461	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	32.25	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0462			1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0294)		
05 05 23 00-0463	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.70	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0464	EA		1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.77	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0465	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.64	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0466	EA		1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.47	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0467	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.08	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0468	EA		1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.09	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0469	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.06	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0470	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.47	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0471	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.73	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0472	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.03	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0473	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	27.00	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0474	EA		1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.52	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0475	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	30.61	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0476	EA		1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	31.21	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0477	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	38.16	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0478	EA		1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	38.69	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0479	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	40.13	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0480	EA		1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	41.11	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0481			Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0482			1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0483	EA	1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.76		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		
05 05 23 00-0484	EA	1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.86		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		
05 05 23 00-0485	EA	1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.91		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		
05 05 23 00-0486	EA	1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.02		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		
05 05 23 00-0487	EA	1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.32		
		For >100 To 250, Deduct	-1.76		
		For >250 To 500, Deduct	-2.20		
		For >500, Deduct	-2.64		
05 05 23 00-0488	EA	1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.44		
		For >100 To 250, Deduct	-1.76		
		For >250 To 500, Deduct	-2.20		
		For >500, Deduct	-2.64		
05 05 23 00-0489	EA	1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.56		
		For >100 To 250, Deduct	-1.76		
		For >250 To 500, Deduct	-2.20		
		For >500, Deduct	-2.64		
05 05 23 00-0490	EA	1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80		
		For >100 To 250, Deduct	-1.81		
		For >250 To 500, Deduct	-2.26		
		For >500, Deduct	-2.72		
05 05 23 00-0491	EA	1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.13		
		For >100 To 250, Deduct	-1.81		
		For >250 To 500, Deduct	-2.26		
		For >500, Deduct	-2.72		
05 05 23 00-0492	EA	1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.43		
		For >100 To 250, Deduct	-1.81		
		For >250 To 500, Deduct	-2.26		
		For >500, Deduct	-2.72		
05 05 23 00-0493	EA	1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.84		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.33		
		For >500, Deduct	-2.79		
05 05 23 00-0494	EA	1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.01		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.33		
		For >500, Deduct	-2.79		
05 05 23 00-0495	EA	1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.22		
		For >100 To 250, Deduct	-1.86		
		For >250 To 500, Deduct	-2.33		
		For >500, Deduct	-2.79		
05 05 23 00-0496	EA	1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.61		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0497	EA	1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.01		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0498	EA	1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.19		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0499		5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)			
05 05 23 00-0500	EA	5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.85		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		
05 05 23 00-0501	EA	5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.91		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		
05 05 23 00-0502	EA	5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.10		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		
05 05 23 00-0503	EA	5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.14		
		For >100 To 250, Deduct	-1.71		
		For >250 To 500, Deduct	-2.14		
		For >500, Deduct	-2.57		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0504	EA		5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.49	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0505	EA		5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.77	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0506	EA		5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.86	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0507	EA		5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.27	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0508	EA		5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.45	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0509	EA		5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.86	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0510	EA		5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.36	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0511	EA		5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.51	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0512	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.76	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0513	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.18	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0514	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.36	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0515	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.71	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0516			3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)	9.05	
05 05 23 00-0517	EA		3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.05	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0518	EA		3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.07	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0519	EA		3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.09	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0520	EA		3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.31	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0521	EA		3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.69	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0522	EA		3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.92	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0523	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.12	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0524	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.00	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 05 23 00-0525	EA 3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.26		
	For >100 To 250, Deduct	-1.81		
	For >250 To 500, Deduct	-2.26		
	For >500, Deduct	-2.72		
05 05 23 00-0526	EA 3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.31		
	For >100 To 250, Deduct	-1.81		
	For >250 To 500, Deduct	-2.26		
	For >500, Deduct	-2.72		
05 05 23 00-0527	EA 3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.67		
	For >100 To 250, Deduct	-1.86		
	For >250 To 500, Deduct	-2.33		
	For >500, Deduct	-2.79		
05 05 23 00-0528	EA 3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.95		
	For >100 To 250, Deduct	-1.86		
	For >250 To 500, Deduct	-2.33		
	For >500, Deduct	-2.79		
05 05 23 00-0529	EA 3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.22		
	For >100 To 250, Deduct	-1.86		
	For >250 To 500, Deduct	-2.33		
	For >500, Deduct	-2.79		
05 05 23 00-0530	EA 3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.77		
	For >100 To 250, Deduct	-1.91		
	For >250 To 500, Deduct	-2.39		
	For >500, Deduct	-2.87		
05 05 23 00-0531	EA 3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.34		
	For >100 To 250, Deduct	-1.91		
	For >250 To 500, Deduct	-2.39		
	For >500, Deduct	-2.87		
05 05 23 00-0532	EA 3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.67		
	For >100 To 250, Deduct	-1.91		
	For >250 To 500, Deduct	-2.39		
	For >500, Deduct	-2.87		
05 05 23 00-0533	7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)			
05 05 23 00-0534	EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.49		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-0535	EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.52		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-0536	EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.88		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-0537	EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.15		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-0538	EA 7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.56		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-0539	EA 7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.78		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-0540	EA 7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.07		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-0541	EA 7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.96		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-0542	EA 7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.66		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-0543	EA 7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.36		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0544	EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.61		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0545	EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.97		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0546 EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.77	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0547 EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.94	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0548 EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.03	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0549 1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0550 EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.73	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0551 EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.99	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0552 EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.15	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.94	
05 05 23 00-0553 EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.56	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0554 EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.84	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0555 EA 1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.49	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0556 EA 1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.19	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.08	
05 05 23 00-0557 EA 1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.57	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.08	
05 05 23 00-0558 EA 1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.84	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.08	
05 05 23 00-0559 EA 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.54	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0560 EA 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.36	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0561 EA 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.11	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.16	
05 05 23 00-0562 EA 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.01	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0563 EA 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.34	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0564 EA 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.28	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.23	
05 05 23 00-0565 EA 1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.08	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	
05 05 23 00-0566 EA 1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.75	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	



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

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 05 23 00-0567	EA 1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.10		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0568	EA 1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.77		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0569 9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)				
05 05 23 00-0570	EA 9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.97		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-0571	EA 9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.12		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-0572	EA 9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.49		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-0573	EA 9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.26		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-0574	EA 9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.39		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-0575	EA 9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.92		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-0576	EA 9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.52		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-0577	EA 9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.25		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-0578	EA 9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.59		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-0579	EA 9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.10		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0580	EA 9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.85		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0581	EA 9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.68		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-0582	EA 9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.26		
	For >100 To 250, Deduct	-2.15		
	For >250 To 500, Deduct	-2.69		
	For >500, Deduct	-3.23		
05 05 23 00-0583	EA 9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.36		
	For >100 To 250, Deduct	-2.15		
	For >250 To 500, Deduct	-2.69		
	For >500, Deduct	-3.23		
05 05 23 00-0584	EA 9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.82		
	For >100 To 250, Deduct	-2.15		
	For >250 To 500, Deduct	-2.69		
	For >500, Deduct	-3.23		
05 05 23 00-0585 5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)				
05 05 23 00-0586	EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.75		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-0587	EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.91		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0588 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.31	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	
05 05 23 00-0589 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.13	
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-2.82	
For >500, Deduct	-3.38	
05 05 23 00-0590 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.61	
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-2.82	
For >500, Deduct	-3.38	
05 05 23 00-0591 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.87	
For >100 To 250, Deduct	-2.25	
For >250 To 500, Deduct	-2.82	
For >500, Deduct	-3.38	
05 05 23 00-0592 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.29	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0593 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.15	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0594 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.52	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0595 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.16	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.94	
For >500, Deduct	-3.52	
05 05 23 00-0596 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.56	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.94	
For >500, Deduct	-3.52	
05 05 23 00-0597 EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.40	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.94	
For >500, Deduct	-3.52	
05 05 23 00-0598 EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.66	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0599 EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.61	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0600 EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.02	
For >100 To 250, Deduct	-2.40	
For >250 To 500, Deduct	-3.00	
For >500, Deduct	-3.60	
05 05 23 00-0601 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.95	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0602 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.83	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0603 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.97	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0604 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.72	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0605 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0606 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.65	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	
05 05 23 00-0607 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.82	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	
05 05 23 00-0608 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.93	
For >100 To 250, Deduct	-2.20	
For >250 To 500, Deduct	-2.76	
For >500, Deduct	-3.31	



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 05 23 00-0609	EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		14.42	
	For >100 To 250, Deduct	-2.25		
	For >250 To 500, Deduct	-2.82		
	For >500, Deduct	-3.38		
05 05 23 00-0610	EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		14.77	
	For >100 To 250, Deduct	-2.25		
	For >250 To 500, Deduct	-2.82		
	For >500, Deduct	-3.38		
05 05 23 00-0611	EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		15.79	
	For >100 To 250, Deduct	-2.25		
	For >250 To 500, Deduct	-2.82		
	For >500, Deduct	-3.38		
05 05 23 00-0612	EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		16.46	
	For >100 To 250, Deduct	-2.30		
	For >250 To 500, Deduct	-2.88		
	For >500, Deduct	-3.45		
05 05 23 00-0613	EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		16.55	
	For >100 To 250, Deduct	-2.30		
	For >250 To 500, Deduct	-2.88		
	For >500, Deduct	-3.45		
05 05 23 00-0614	EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		17.93	
	For >100 To 250, Deduct	-2.30		
	For >250 To 500, Deduct	-2.88		
	For >500, Deduct	-3.45		
05 05 23 00-0615	EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		18.68	
	For >100 To 250, Deduct	-2.35		
	For >250 To 500, Deduct	-2.94		
	For >500, Deduct	-3.52		
05 05 23 00-0616	EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		19.40	
	For >100 To 250, Deduct	-2.35		
	For >250 To 500, Deduct	-2.94		
	For >500, Deduct	-3.52		
05 05 23 00-0617	EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		20.76	
	For >100 To 250, Deduct	-2.35		
	For >250 To 500, Deduct	-2.94		
	For >500, Deduct	-3.52		
05 05 23 00-0618	EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		22.68	
	For >100 To 250, Deduct	-2.40		
	For >250 To 500, Deduct	-3.00		
	For >500, Deduct	-3.60		
05 05 23 00-0619	EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		23.40	
	For >100 To 250, Deduct	-2.40		
	For >250 To 500, Deduct	-3.00		
	For >500, Deduct	-3.60		
05 05 23 00-0620	EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		23.78	
	For >100 To 250, Deduct	-2.40		
	For >250 To 500, Deduct	-3.00		
	For >500, Deduct	-3.60		
05 05 23 00-0621	EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		25.80	
	For >100 To 250, Deduct	-2.45		
	For >250 To 500, Deduct	-3.06		
	For >500, Deduct	-3.67		
05 05 23 00-0622	EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		27.12	
	For >100 To 250, Deduct	-2.45		
	For >250 To 500, Deduct	-3.06		
	For >500, Deduct	-3.67		
05 05 23 00-0623	EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		28.07	
	For >100 To 250, Deduct	-2.45		
	For >250 To 500, Deduct	-3.06		
	For >500, Deduct	-3.67		
05 05 23 00-0624	EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		28.42	
	For >100 To 250, Deduct	-2.45		
	For >250 To 500, Deduct	-3.06		
	For >500, Deduct	-3.67		
05 05 23 00-0625	7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)			
05 05 23 00-0626	EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		17.33	
	For >100 To 250, Deduct	-2.45		
	For >250 To 500, Deduct	-3.06		
	For >500, Deduct	-3.67		
05 05 23 00-0627	EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		17.78	
	For >100 To 250, Deduct	-2.45		
	For >250 To 500, Deduct	-3.06		
	For >500, Deduct	-3.67		
05 05 23 00-0628	EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt		18.68	
	For >100 To 250, Deduct	-2.50		
	For >250 To 500, Deduct	-3.12		
	For >500, Deduct	-3.74		
05 05 23 00-0629	EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....		20.02	
	For >100 To 250, Deduct	-2.50		
	For >250 To 500, Deduct	-3.12		
	For >500, Deduct	-3.74		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0630	EA		7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.18	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0631	EA		7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.70	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0632	EA		7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.95	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0633	EA		7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.78	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0634	EA		7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.96	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0635	EA		7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.18	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0636	EA		7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.32	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0637	EA		7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.62	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0638	EA		7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	35.85	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0639	EA		7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	37.16	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0640	EA		7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	38.45	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0641	EA		7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	38.82	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0642	EA		7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	39.15	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0643	EA		7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.92	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0644			1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0481)		
05 05 23 00-0645	EA		1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.61	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0646	EA		1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.73	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0647	EA		1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.46	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0648	EA		1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.31	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0649	EA		1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.88	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0650	EA		1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.54	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0651	EA	1"	Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	24.90 -2.54 -3.18 -3.82	
05 05 23 00-0652	EA	1"	Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	26.71 -2.54 -3.18 -3.82	
05 05 23 00-0653	EA	1"	Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	27.81 -2.59 -3.24 -3.89	
05 05 23 00-0654	EA	1"	Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	28.58 -2.59 -3.24 -3.89	
05 05 23 00-0655	EA	1"	Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	32.37 -2.59 -3.24 -3.89	
05 05 23 00-0656	EA	1"	Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	33.20 -2.64 -3.31 -3.97	
05 05 23 00-0657	EA	1"	Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	37.48 -2.64 -3.31 -3.97	
05 05 23 00-0658	EA	1"	Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	38.22 -2.64 -3.31 -3.97	
05 05 23 00-0659	EA	1"	Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	40.74 -2.69 -3.37 -4.04	
05 05 23 00-0660	EA	1"	Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	41.98 -2.69 -3.37 -4.04	
05 05 23 00-0661	EA	1"	Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	45.24 -2.69 -3.37 -4.04	
05 05 23 00-0662	EA	1"	Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	47.23 -2.69 -3.37 -4.04	
05 05 23 00-0663			Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0664			1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0665	EA	1/4"	Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.89 -1.71 -2.14 -2.57	
05 05 23 00-0666	EA	1/4"	Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.91 -1.71 -2.14 -2.57	
05 05 23 00-0667	EA	1/4"	Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.93 -1.71 -2.14 -2.57	
05 05 23 00-0668	EA	1/4"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.16 -1.71 -2.14 -2.57	
05 05 23 00-0669	EA	1/4"	Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.52 -1.76 -2.20 -2.64	
05 05 23 00-0670	EA	1/4"	Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.65 -1.76 -2.20 -2.64	
05 05 23 00-0671	EA	1/4"	Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.71 -1.76 -2.20 -2.64	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0672	EA	1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.96	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0673	EA	1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.13	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0674	EA	1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.17	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0675	EA	1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.53	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.33	
		For >500, Deduct	-2.79	
05 05 23 00-0676	EA	1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.67	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.33	
		For >500, Deduct	-2.79	
05 05 23 00-0677	EA	1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.72	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.33	
		For >500, Deduct	-2.79	
05 05 23 00-0678	EA	1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.10	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0679	EA	1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.49	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0680	EA	1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.98	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0681		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0683)		
05 05 23 00-0682	EA	5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.79	
		For >100 To 250, Deduct	-1.71	
		For >250 To 500, Deduct	-2.14	
		For >500, Deduct	-2.57	
05 05 23 00-0683	EA	5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.24	
		For >100 To 250, Deduct	-1.71	
		For >250 To 500, Deduct	-2.14	
		For >500, Deduct	-2.57	
05 05 23 00-0684	EA	5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.27	
		For >100 To 250, Deduct	-1.71	
		For >250 To 500, Deduct	-2.14	
		For >500, Deduct	-2.57	
05 05 23 00-0685	EA	5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.29	
		For >100 To 250, Deduct	-1.71	
		For >250 To 500, Deduct	-2.14	
		For >500, Deduct	-2.57	
05 05 23 00-0686	EA	5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.73	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0687	EA	5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.16	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0688	EA	5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.23	
		For >100 To 250, Deduct	-1.76	
		For >250 To 500, Deduct	-2.20	
		For >500, Deduct	-2.64	
05 05 23 00-0689	EA	5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.59	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0690	EA	5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.63	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0691	EA	5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.97	
		For >100 To 250, Deduct	-1.81	
		For >250 To 500, Deduct	-2.26	
		For >500, Deduct	-2.72	
05 05 23 00-0692	EA	5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.31	
		For >100 To 250, Deduct	-1.86	
		For >250 To 500, Deduct	-2.33	
		For >500, Deduct	-2.79	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0693	EA		5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.44	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0694	EA		5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.76	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0695	EA		5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.66	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0696	EA		5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.17	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0697	EA		5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.65	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0698 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0693)					
05 05 23 00-0699	EA		3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0700	EA		3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.03	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0701	EA		3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.14	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0702	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.41	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0703	EA		3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.77	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0704	EA		3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.00	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0705	EA		3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.16	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0706	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.62	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0707	EA		3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.73	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0708	EA		3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.00	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0709	EA		3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.37	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0710	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.75	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0711	EA		3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.81	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0712	EA		3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.09	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0713	EA		3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.13	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
05 05 23 00-0714	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.57		
		<i>For >100 To 250, Deduct</i>		-1.91	
		<i>For >250 To 500, Deduct</i>		-2.39	
		<i>For >500, Deduct</i>		-2.87	
05 05 23 00-0715 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)					
05 05 23 00-0716	EA	7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.82		
		<i>For >100 To 250, Deduct</i>		-1.96	
		<i>For >250 To 500, Deduct</i>		-2.45	
		<i>For >500, Deduct</i>		-2.94	
05 05 23 00-0717	EA	7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.30		
		<i>For >100 To 250, Deduct</i>		-1.96	
		<i>For >250 To 500, Deduct</i>		-2.45	
		<i>For >500, Deduct</i>		-2.94	
05 05 23 00-0718	EA	7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.68		
		<i>For >100 To 250, Deduct</i>		-1.96	
		<i>For >250 To 500, Deduct</i>		-2.45	
		<i>For >500, Deduct</i>		-2.94	
05 05 23 00-0719	EA	7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.55		
		<i>For >100 To 250, Deduct</i>		-2.01	
		<i>For >250 To 500, Deduct</i>		-2.51	
		<i>For >500, Deduct</i>		-3.01	
05 05 23 00-0720	EA	7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.58		
		<i>For >100 To 250, Deduct</i>		-2.01	
		<i>For >250 To 500, Deduct</i>		-2.51	
		<i>For >500, Deduct</i>		-3.01	
05 05 23 00-0721	EA	7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.62		
		<i>For >100 To 250, Deduct</i>		-2.01	
		<i>For >250 To 500, Deduct</i>		-2.51	
		<i>For >500, Deduct</i>		-3.01	
05 05 23 00-0722	EA	7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.18		
		<i>For >100 To 250, Deduct</i>		-2.06	
		<i>For >250 To 500, Deduct</i>		-2.57	
		<i>For >500, Deduct</i>		-3.08	
05 05 23 00-0723	EA	7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.53		
		<i>For >100 To 250, Deduct</i>		-2.06	
		<i>For >250 To 500, Deduct</i>		-2.57	
		<i>For >500, Deduct</i>		-3.08	
05 05 23 00-0724	EA	7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.84		
		<i>For >100 To 250, Deduct</i>		-2.06	
		<i>For >250 To 500, Deduct</i>		-2.57	
		<i>For >500, Deduct</i>		-3.08	
05 05 23 00-0725	EA	7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.43		
		<i>For >100 To 250, Deduct</i>		-2.10	
		<i>For >250 To 500, Deduct</i>		-2.63	
		<i>For >500, Deduct</i>		-3.16	
05 05 23 00-0726	EA	7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.79		
		<i>For >100 To 250, Deduct</i>		-2.10	
		<i>For >250 To 500, Deduct</i>		-2.63	
		<i>For >500, Deduct</i>		-3.16	
05 05 23 00-0727 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)					
05 05 23 00-0728	EA	1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.60		
		<i>For >100 To 250, Deduct</i>		-1.96	
		<i>For >250 To 500, Deduct</i>		-2.45	
		<i>For >500, Deduct</i>		-2.94	
05 05 23 00-0729	EA	1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.76		
		<i>For >100 To 250, Deduct</i>		-1.96	
		<i>For >250 To 500, Deduct</i>		-2.45	
		<i>For >500, Deduct</i>		-2.94	
05 05 23 00-0730	EA	1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.08		
		<i>For >100 To 250, Deduct</i>		-1.96	
		<i>For >250 To 500, Deduct</i>		-2.45	
		<i>For >500, Deduct</i>		-2.94	
05 05 23 00-0731	EA	1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.69		
		<i>For >100 To 250, Deduct</i>		-2.01	
		<i>For >250 To 500, Deduct</i>		-2.51	
		<i>For >500, Deduct</i>		-3.01	
05 05 23 00-0732	EA	1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.93		
		<i>For >100 To 250, Deduct</i>		-2.01	
		<i>For >250 To 500, Deduct</i>		-2.51	
		<i>For >500, Deduct</i>		-3.01	
05 05 23 00-0733	EA	1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.39		
		<i>For >100 To 250, Deduct</i>		-2.01	
		<i>For >250 To 500, Deduct</i>		-2.51	
		<i>For >500, Deduct</i>		-3.01	
05 05 23 00-0734	EA	1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.71		
		<i>For >100 To 250, Deduct</i>		-2.06	
		<i>For >250 To 500, Deduct</i>		-2.57	
		<i>For >500, Deduct</i>		-3.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0735	EA	1/2"	Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.88	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0736	EA	1/2"	Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.24	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0737	EA	1/2"	Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.65	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0738	EA	1/2"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.05	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0739	EA	1/2"	Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.09	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0740	EA	1/2"	Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.42	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0741	EA	1/2"	Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.52	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0742	EA	1/2"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.83	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0743	EA	1/2"	Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.53	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0744	EA	1/2"	Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.78	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0745	EA	1/2"	Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.83	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0746	EA	1/2"	Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.97	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0747			5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0748	EA	5/8"	Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.40	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0749	EA	5/8"	Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.65	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0750	EA	5/8"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.82	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0751	EA	5/8"	Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.33	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-0752	EA	5/8"	Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.69	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-0753	EA	5/8"	Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.50	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-0754	EA	5/8"	Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.86	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0755	EA	5/8"	Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.01	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0756	EA	5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.25	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	
05 05 23 00-0757	EA	5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.82	
		For >100 To 250, Deduct	-2.35	
		For >250 To 500, Deduct	-2.94	
		For >500, Deduct	-3.52	
05 05 23 00-0758	EA	5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.10	
		For >100 To 250, Deduct	-2.35	
		For >250 To 500, Deduct	-2.94	
		For >500, Deduct	-3.52	
05 05 23 00-0759	EA	5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.93	
		For >100 To 250, Deduct	-2.35	
		For >250 To 500, Deduct	-2.94	
		For >500, Deduct	-3.52	
05 05 23 00-0760	EA	5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.24	
		For >100 To 250, Deduct	-2.40	
		For >250 To 500, Deduct	-3.00	
		For >500, Deduct	-3.60	
05 05 23 00-0761	EA	5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.69	
		For >100 To 250, Deduct	-2.40	
		For >250 To 500, Deduct	-3.00	
		For >500, Deduct	-3.60	
05 05 23 00-0762	EA	5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.12	
		For >100 To 250, Deduct	-2.40	
		For >250 To 500, Deduct	-3.00	
		For >500, Deduct	-3.60	
05 05 23 00-0763	EA	5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.97	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0764	EA	5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	20.65	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0765	EA	5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.22	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0766	EA	5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	22.33	
		For >100 To 250, Deduct	-2.45	
		For >250 To 500, Deduct	-3.06	
		For >500, Deduct	-3.67	
05 05 23 00-0767 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts				
		(05 05 23 00-0663)		
05 05 23 00-0768	EA	3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.58	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0769	EA	3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.63	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0770	EA	3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.93	
		For >100 To 250, Deduct	-2.20	
		For >250 To 500, Deduct	-2.76	
		For >500, Deduct	-3.31	
05 05 23 00-0771	EA	3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.84	
		For >100 To 250, Deduct	-2.25	
		For >250 To 500, Deduct	-2.82	
		For >500, Deduct	-3.38	
05 05 23 00-0772	EA	3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.97	
		For >100 To 250, Deduct	-2.25	
		For >250 To 500, Deduct	-2.82	
		For >500, Deduct	-3.38	
05 05 23 00-0773	EA	3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.70	
		For >100 To 250, Deduct	-2.25	
		For >250 To 500, Deduct	-2.82	
		For >500, Deduct	-3.38	
05 05 23 00-0774	EA	3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.32	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	
05 05 23 00-0775	EA	3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.39	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	
05 05 23 00-0776	EA	3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.54	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0777	EA		3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.89	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0778	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.84	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0779	EA		3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.25	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0780	EA		3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.28	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-0781	EA		3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.41	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-0782	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.80	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-0783	EA		3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.62	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0784	EA		3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.04	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0785	EA		3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.27	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0786	EA		3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.39	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0787			7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0663)		
05 05 23 00-0788	EA		7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.14	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0789	EA		7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.61	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0790	EA		7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.11	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0791	EA		7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.53	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0792	EA		7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.89	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0793	EA		7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.60	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0794	EA		7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.10	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0795	EA		7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.75	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0796	EA		7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.45	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0797	EA		7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.96	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0798	EA		7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.96	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0799	EA		7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.76	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0800	EA		7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.69	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0801	EA		7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.91	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0802	EA		7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.41	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0803	EA		7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.93	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0804	EA		7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.58	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0805	EA		7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.18	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0806 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts					
			(05 05 23 00-0663)		
05 05 23 00-0807	EA		1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.39	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0808	EA		1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.77	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0809	EA		1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.64	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0810	EA		1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.33	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0811	EA		1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.13	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0812	EA		1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.48	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0813	EA		1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.49	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-0814	EA		1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.85	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0815	EA		1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.22	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0816	EA		1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.65	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-0817	EA		1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.55	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0818	EA		1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.98	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0819	EA		1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.41	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-0820	EA		1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.07	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0821	EA		1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	35.23	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0822	EA		1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.11	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0823	EA		1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	37.40	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-0824			304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0825			1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0826	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.85	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0827	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.96	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0828	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.09	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0829	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.23	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0830	EA		1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.62	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0831	EA		1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.84	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0832	EA		1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.10	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0833	EA		1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.52	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0834	EA		1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.84	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0835	EA		1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.13	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0836	EA		1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.62	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0837	EA		1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.09	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0838	EA		1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.82	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0839	EA		1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.86	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0840	EA		1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.13	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0841	EA		1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.78	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0842 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)					
05 05 23 00-0843	EA		5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.04	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0844	EA		5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.14	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0845	EA		5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.35	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0846	EA		5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.51	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0847	EA		5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.05	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0848	EA		5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.16	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0849	EA		5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.69	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0850	EA		5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.31	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0851	EA		5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.90	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0852	EA		5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.20	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0853	EA		5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.37	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0854	EA		5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.86	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0855	EA		5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.27	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0856	EA		5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.03	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0857 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)					
05 05 23 00-0858	EA		3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.30	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0859	EA		3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.42	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0860	EA		3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.75	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-0861	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.15	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0862	EA		3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.60	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0863	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.93	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0864	EA		3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.37	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-0865	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.99	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0866	EA		3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.50	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0867	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.62	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-0868	EA		3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.01	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0869	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.93	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0870	EA		3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.91	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-0871	EA		3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.62	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0872	EA		3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.90	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0873	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.88	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0874			7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0875	EA		7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.57	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0876	EA		7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.70	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0877	EA		7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.23	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0878	EA		7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.78	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0879	EA		7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.41	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0880	EA		7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.45	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0881	EA		7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.18	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0882	EA		7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.41	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0883	EA		7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.95	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0884	EA		7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.86	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0885	EA		7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.73	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0886	EA		7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.98	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0887	EA		7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.46	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0888 1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)					
05 05 23 00-0889	EA		1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.55	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0890	EA		1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.70	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0891	EA		1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.53	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0892	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.09	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0893	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.84	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0894	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.24	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0895	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.99	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0896	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.35	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0897	EA		1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.30	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0898	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.08	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0899	EA		1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.96	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0900	EA		1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.97	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0901	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.70	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0902	EA		1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.29	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-0903	EA		1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.23	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	



MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0904	EA		1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.09	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0905	EA		1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.46	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0906	EA		1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.06	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0907	EA		1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.65	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0908			9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0909	EA		9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.86	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0910	EA		9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.56	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0911	EA		9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.55	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-0912	EA		9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.39	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0913	EA		9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.45	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0914	EA		9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.30	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-0915	EA		9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.27	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0916	EA		9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.69	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0917	EA		9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.61	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-0918	EA		9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.69	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0919	EA		9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.78	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-0920			5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0921	EA		5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.23	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0922	EA		5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.62	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0923	EA		5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.25	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-0924	EA		5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.76	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0925	EA	5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	17.54	
		For >100 To 250, Deduct		-2.25	
		For >250 To 500, Deduct		-2.82	
		For >500, Deduct		-3.38	
05 05 23 00-0926	EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	18.64	
		For >100 To 250, Deduct		-2.25	
		For >250 To 500, Deduct		-2.82	
		For >500, Deduct		-3.38	
05 05 23 00-0927	EA	5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	20.27	
		For >100 To 250, Deduct		-2.30	
		For >250 To 500, Deduct		-2.88	
		For >500, Deduct		-3.45	
05 05 23 00-0928	EA	5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	20.29	
		For >100 To 250, Deduct		-2.30	
		For >250 To 500, Deduct		-2.88	
		For >500, Deduct		-3.45	
05 05 23 00-0929	EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	21.53	
		For >100 To 250, Deduct		-2.30	
		For >250 To 500, Deduct		-2.88	
		For >500, Deduct		-3.45	
05 05 23 00-0930	EA	5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	22.47	
		For >100 To 250, Deduct		-2.35	
		For >250 To 500, Deduct		-2.94	
		For >500, Deduct		-3.52	
05 05 23 00-0931	EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	23.59	
		For >100 To 250, Deduct		-2.35	
		For >250 To 500, Deduct		-2.94	
		For >500, Deduct		-3.52	
05 05 23 00-0932	EA	5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	27.69	
		For >100 To 250, Deduct		-2.35	
		For >250 To 500, Deduct		-2.94	
		For >500, Deduct		-3.52	
05 05 23 00-0933	EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	30.19	
		For >100 To 250, Deduct		-2.40	
		For >250 To 500, Deduct		-3.00	
		For >500, Deduct		-3.60	
05 05 23 00-0934	EA	5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	32.04	
		For >100 To 250, Deduct		-2.40	
		For >250 To 500, Deduct		-3.00	
		For >500, Deduct		-3.60	
05 05 23 00-0935	EA	5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	32.88	
		For >100 To 250, Deduct		-2.40	
		For >250 To 500, Deduct		-3.00	
		For >500, Deduct		-3.60	
05 05 23 00-0936	EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	36.54	
		For >100 To 250, Deduct		-2.45	
		For >250 To 500, Deduct		-3.06	
		For >500, Deduct		-3.67	
05 05 23 00-0937	EA	5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	37.63	
		For >100 To 250, Deduct		-2.45	
		For >250 To 500, Deduct		-3.06	
		For >500, Deduct		-3.67	
05 05 23 00-0938	EA	5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	42.51	
		For >100 To 250, Deduct		-2.45	
		For >250 To 500, Deduct		-3.06	
		For >500, Deduct		-3.67	
05 05 23 00-0939	EA	5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	44.51	
		For >100 To 250, Deduct		-2.45	
		For >250 To 500, Deduct		-3.06	
		For >500, Deduct		-3.67	
05 05 23 00-0940		3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)			
05 05 23 00-0941	EA	3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	16.01	
		For >100 To 250, Deduct		-2.20	
		For >250 To 500, Deduct		-2.76	
		For >500, Deduct		-3.31	
05 05 23 00-0942	EA	3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	16.77	
		For >100 To 250, Deduct		-2.20	
		For >250 To 500, Deduct		-2.76	
		For >500, Deduct		-3.31	
05 05 23 00-0943	EA	3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	17.78	
		For >100 To 250, Deduct		-2.20	
		For >250 To 500, Deduct		-2.76	
		For >500, Deduct		-3.31	
05 05 23 00-0944	EA	3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	19.11	
		For >100 To 250, Deduct		-2.25	
		For >250 To 500, Deduct		-2.82	
		For >500, Deduct		-3.38	
05 05 23 00-0945	EA	3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	.....	20.21	
		For >100 To 250, Deduct		-2.25	
		For >250 To 500, Deduct		-2.82	
		For >500, Deduct		-3.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0946	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	22.08	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-0947	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	23.43	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0948	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.16	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0949	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	26.55	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0950	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	28.23	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0951	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	29.84	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0952	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	32.87	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-0953	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	41.19	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-0954	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	43.76	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-0955	EA		3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	49.26	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-0956	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	49.75	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0957	EA		3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	50.62	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0958	EA		3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	52.97	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0959	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	54.78	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0960			7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)		
05 05 23 00-0961	EA		7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	22.01	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0962	EA		7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	23.91	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-0963	EA		7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	25.60	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0964	EA		7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	27.53	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0965	EA		7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	28.16	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-0966	EA		7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	29.98	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0967 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.60	
For >100 To 250, Deduct	-2.54	
For >250 To 500, Deduct	-3.18	
For >500, Deduct	-3.82	
05 05 23 00-0968 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.80	
For >100 To 250, Deduct	-2.54	
For >250 To 500, Deduct	-3.18	
For >500, Deduct	-3.82	
05 05 23 00-0969 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.67	
For >100 To 250, Deduct	-2.59	
For >250 To 500, Deduct	-3.24	
For >500, Deduct	-3.89	
05 05 23 00-0970 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.29	
For >100 To 250, Deduct	-2.59	
For >250 To 500, Deduct	-3.24	
For >500, Deduct	-3.89	
05 05 23 00-0971 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.18	
For >100 To 250, Deduct	-2.59	
For >250 To 500, Deduct	-3.24	
For >500, Deduct	-3.89	
05 05 23 00-0972 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.84	
For >100 To 250, Deduct	-2.64	
For >250 To 500, Deduct	-3.31	
For >500, Deduct	-3.97	
05 05 23 00-0973 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	53.83	
For >100 To 250, Deduct	-2.64	
For >250 To 500, Deduct	-3.31	
For >500, Deduct	-3.97	
05 05 23 00-0974 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	57.04	
For >100 To 250, Deduct	-2.64	
For >250 To 500, Deduct	-3.31	
For >500, Deduct	-3.97	
05 05 23 00-0975 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.04	
For >100 To 250, Deduct	-2.69	
For >250 To 500, Deduct	-3.37	
For >500, Deduct	-4.04	
05 05 23 00-0976 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	74.86	
For >100 To 250, Deduct	-2.69	
For >250 To 500, Deduct	-3.37	
For >500, Deduct	-4.04	
05 05 23 00-0977 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	78.48	
For >100 To 250, Deduct	-2.69	
For >250 To 500, Deduct	-3.37	
For >500, Deduct	-4.04	
05 05 23 00-0978 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	82.08	
For >100 To 250, Deduct	-2.69	
For >250 To 500, Deduct	-3.37	
For >500, Deduct	-4.04	
05 05 23 00-0979 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0824)	26.62	
05 05 23 00-0980 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.62	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0981 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.01	
For >100 To 250, Deduct	-2.45	
For >250 To 500, Deduct	-3.06	
For >500, Deduct	-3.67	
05 05 23 00-0982 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.31	
For >100 To 250, Deduct	-2.50	
For >250 To 500, Deduct	-3.12	
For >500, Deduct	-3.74	
05 05 23 00-0983 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.06	
For >100 To 250, Deduct	-2.50	
For >250 To 500, Deduct	-3.12	
For >500, Deduct	-3.74	
05 05 23 00-0984 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.93	
For >100 To 250, Deduct	-2.50	
For >250 To 500, Deduct	-3.12	
For >500, Deduct	-3.74	
05 05 23 00-0985 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.40	
For >100 To 250, Deduct	-2.54	
For >250 To 500, Deduct	-3.18	
For >500, Deduct	-3.82	
05 05 23 00-0986 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.40	
For >100 To 250, Deduct	-2.54	
For >250 To 500, Deduct	-3.18	
For >500, Deduct	-3.82	
05 05 23 00-0987 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.36	
For >100 To 250, Deduct	-2.54	
For >250 To 500, Deduct	-3.18	
For >500, Deduct	-3.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0988	EA	1"	Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	46.39 -2.59 -3.24 -3.89	
05 05 23 00-0989	EA	1"	Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	46.55 -2.59 -3.24 -3.89	
05 05 23 00-0990	EA	1"	Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	54.49 -2.59 -3.24 -3.89	
05 05 23 00-0991	EA	1"	Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	64.78 -2.64 -3.31 -3.97	
05 05 23 00-0992	EA	1"	Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	66.28 -2.64 -3.31 -3.97	
05 05 23 00-0993	EA	1"	Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	67.77 -2.64 -3.31 -3.97	
05 05 23 00-0994	EA	1"	Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	71.00 -2.69 -3.37 -4.04	
05 05 23 00-0995	EA	1"	Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	75.59 -2.69 -3.37 -4.04	
05 05 23 00-0996	EA	1"	Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	96.41 -2.69 -3.37 -4.04	
05 05 23 00-0997	EA	1"	Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	120.67 -2.69 -3.37 -4.04	
05 05 23 00-0998			316 Stainless Steel, Hex Head Bolts (05 05 23 00-0106)		
05 05 23 00-0999			1/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1000	EA	1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.05 -1.71 -2.14 -2.57	
05 05 23 00-1001	EA	1"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.27 -1.71 -2.14 -2.57	
05 05 23 00-1002	EA	1-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.43 -1.71 -2.14 -2.57	
05 05 23 00-1003	EA	2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.54 -1.71 -2.14 -2.57	
05 05 23 00-1004	EA	2-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.09 -1.76 -2.20 -2.64	
05 05 23 00-1005	EA	3"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.38 -1.76 -2.20 -2.64	
05 05 23 00-1006	EA	3-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.66 -1.76 -2.20 -2.64	
05 05 23 00-1007	EA	4"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.13 -1.81 -2.26 -2.72	
05 05 23 00-1008	EA	4-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.37 -1.81 -2.26 -2.72	
05 05 23 00-1009	EA	5"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.47 -1.81 -2.26 -2.72	

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 05 23 00-1010	EA	5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	12.45		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-1011	EA	6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	12.65		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-1012	EA	6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	19.94		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-1013	EA	7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	29.02		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-1014	EA	7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	48.48		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-1015	EA	8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	52.92		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-1016 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)					
05 05 23 00-1017	EA	5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.35		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-1018	EA	5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	9.60		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-1019	EA	5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.02		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-1020	EA	5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	10.33		
		For >100 To 250, Deduct		-1.71	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.57	
05 05 23 00-1021	EA	5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.71		
		For >100 To 250, Deduct		-1.76	
		For >250 To 500, Deduct		-2.20	
		For >500, Deduct		-2.64	
05 05 23 00-1022	EA	5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	11.35		
		For >100 To 250, Deduct		-1.76	
		For >250 To 500, Deduct		-2.20	
		For >500, Deduct		-2.64	
05 05 23 00-1023	EA	5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.80		
		For >100 To 250, Deduct		-1.76	
		For >250 To 500, Deduct		-2.20	
		For >500, Deduct		-2.64	
05 05 23 00-1024	EA	5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	12.23		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.26	
		For >500, Deduct		-2.72	
05 05 23 00-1025	EA	5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.19		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.26	
		For >500, Deduct		-2.72	
05 05 23 00-1026	EA	5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	13.38		
		For >100 To 250, Deduct		-1.81	
		For >250 To 500, Deduct		-2.26	
		For >500, Deduct		-2.72	
05 05 23 00-1027	EA	5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.31		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-1028	EA	5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	15.05		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-1029	EA	5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.26		
		For >100 To 250, Deduct		-1.86	
		For >250 To 500, Deduct		-2.33	
		For >500, Deduct		-2.79	
05 05 23 00-1030	EA	5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	30.32		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1031			3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1032	EA		3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.01	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-1033	EA		3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.11	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-1034	EA		3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.50	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-1035	EA		3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	11.42	
			For >100 To 250, Deduct	-1.71	
			For >250 To 500, Deduct	-2.14	
			For >500, Deduct	-2.57	
05 05 23 00-1036	EA		3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.99	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-1037	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.16	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-1038	EA		3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.97	
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.20	
			For >500, Deduct	-2.64	
05 05 23 00-1039	EA		3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	13.32	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-1040	EA		3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.83	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-1041	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	14.18	
			For >100 To 250, Deduct	-1.81	
			For >250 To 500, Deduct	-2.26	
			For >500, Deduct	-2.72	
05 05 23 00-1042	EA		3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.55	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-1043	EA		3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	16.91	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-1044	EA		3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.97	
			For >100 To 250, Deduct	-1.86	
			For >250 To 500, Deduct	-2.33	
			For >500, Deduct	-2.79	
05 05 23 00-1045	EA		3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	20.67	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-1046	EA		3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.29	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-1047	EA		3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	32.36	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-1048			7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1049	EA		7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	12.78	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1050	EA		7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.36	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1051	EA		7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	14.45	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1052	EA		7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.63	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1053	EA		7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	16.68	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-1054	EA		7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.40	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-1055	EA		7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	20.29	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-1056	EA		7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.59	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-1057	EA		7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	21.22	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-1058	EA		7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	21.88	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1059	EA		7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	22.33	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1060	EA		7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.78	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1061	EA		7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	23.38	
			For >100 To 250, Deduct	-2.15	
			For >250 To 500, Deduct	-2.69	
			For >500, Deduct	-3.23	
05 05 23 00-1062			1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1063	EA		1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	12.75	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1064	EA		1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.38	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1065	EA		1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	14.26	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.94	
05 05 23 00-1066	EA		1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.55	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-1067	EA		1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	16.52	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-1068	EA		1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.76	
			For >100 To 250, Deduct	-2.01	
			For >250 To 500, Deduct	-2.51	
			For >500, Deduct	-3.01	
05 05 23 00-1069	EA		1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	17.41	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-1070	EA		1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.28	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-1071	EA		1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	23.07	
			For >100 To 250, Deduct	-2.06	
			For >250 To 500, Deduct	-2.57	
			For >500, Deduct	-3.08	
05 05 23 00-1072	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.60	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	
05 05 23 00-1073	EA		1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	24.20	
			For >100 To 250, Deduct	-2.10	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.16	



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

05

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 05 23 00-1074	EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.89		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-1075	EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	32.28		
	For >100 To 250, Deduct	-2.15		
	For >250 To 500, Deduct	-2.69		
	For >500, Deduct	-3.23		
05 05 23 00-1076	EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.31		
	For >100 To 250, Deduct	-2.15		
	For >250 To 500, Deduct	-2.69		
	For >500, Deduct	-3.23		
05 05 23 00-1077	EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	37.67		
	For >100 To 250, Deduct	-2.15		
	For >250 To 500, Deduct	-2.69		
	For >500, Deduct	-3.23		
05 05 23 00-1078	EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.82		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-1079	EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	52.55		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-1080	EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	53.50		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-1081	EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	54.96		
	For >100 To 250, Deduct	-2.20		
	For >250 To 500, Deduct	-2.76		
	For >500, Deduct	-3.31		
05 05 23 00-1082	9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)			
05 05 23 00-1083	EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	28.47		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-1084	EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.53		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-1085	EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	37.44		
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-2.45		
	For >500, Deduct	-2.94		
05 05 23 00-1086	EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.55		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-1087	EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	45.63		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-1088	EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	49.71		
	For >100 To 250, Deduct	-2.01		
	For >250 To 500, Deduct	-2.51		
	For >500, Deduct	-3.01		
05 05 23 00-1089	EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	52.50		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-1090	EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.87		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-1091	EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	58.85		
	For >100 To 250, Deduct	-2.06		
	For >250 To 500, Deduct	-2.57		
	For >500, Deduct	-3.08		
05 05 23 00-1092	EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	59.99		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		
05 05 23 00-1093	EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	62.62		
	For >100 To 250, Deduct	-2.10		
	For >250 To 500, Deduct	-2.63		
	For >500, Deduct	-3.16		

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1095	EA		5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	17.18	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-1096	EA		5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.36	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-1097	EA		5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	17.42	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-1098	EA		5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.84	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-1099	EA		5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	20.05	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-1100	EA		5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.89	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-1101	EA		5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	24.94	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-1102	EA		5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.30	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-1103	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	29.47	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-1104	EA		5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.92	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-1105	EA		5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	32.87	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-1106	EA		5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.76	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-1107	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	41.14	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-1108	EA		5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.89	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-1109	EA		5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	44.64	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-1110	EA		5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.36	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1111	EA		5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	49.69	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1112	EA		5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	60.81	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1113	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	72.70	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1114			3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1115	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	21.86	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1116	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.27	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-1117	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	23.87	
			For >100 To 250, Deduct	-2.20	
			For >250 To 500, Deduct	-2.76	
			For >500, Deduct	-3.31	
05 05 23 00-1118	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.52	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-1119	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	28.51	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-1120	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.24	
			For >100 To 250, Deduct	-2.25	
			For >250 To 500, Deduct	-2.82	
			For >500, Deduct	-3.38	
05 05 23 00-1121	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	34.17	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-1122	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.70	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-1123	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	36.53	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-1124	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.90	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-1125	EA		3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	39.81	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-1126	EA		3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.70	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.94	
			For >500, Deduct	-3.52	
05 05 23 00-1127	EA		3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	54.48	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-1128	EA		3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.11	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-1129	EA		3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	62.11	
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.00	
			For >500, Deduct	-3.60	
05 05 23 00-1130	EA		3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	66.34	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1131	EA		3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	76.40	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1132	EA		3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	77.26	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1133	EA		3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	79.38	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1134			7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)	24.60	
05 05 23 00-1135	EA		7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.60	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1136	EA		7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	27.37	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1137	EA		7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.11	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-1138	EA		7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	32.99	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-1139	EA		7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.72	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-1140	EA		7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	36.48	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-1141	EA		7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.83	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-1142	EA		7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	44.11	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-1143	EA		7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	44.49	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-1144	EA		7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	46.24	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-1145	EA		7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	61.01	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-1146	EA		7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	67.77	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-1147	EA		7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	74.78	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-1148	EA		7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	78.24	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-1149	EA		7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	82.96	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1150	EA		7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	85.96	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1151	EA		7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	88.94	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1152	EA		7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	92.29	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1153			1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0998)		
05 05 23 00-1154	EA		1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	30.68	
			For >100 To 250, Deduct	-2.45	
			For >250 To 500, Deduct	-3.06	
			For >500, Deduct	-3.67	
05 05 23 00-1155	EA		1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.18	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-1156	EA		1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	38.04	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	
05 05 23 00-1157	EA		1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.60	
			For >100 To 250, Deduct	-2.50	
			For >250 To 500, Deduct	-3.12	
			For >500, Deduct	-3.74	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1158	EA		1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	44.47	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-1159	EA		1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.56	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-1160	EA		1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	50.68	
			For >100 To 250, Deduct	-2.54	
			For >250 To 500, Deduct	-3.18	
			For >500, Deduct	-3.82	
05 05 23 00-1161	EA		1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.07	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-1162	EA		1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	62.14	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-1163	EA		1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	70.09	
			For >100 To 250, Deduct	-2.59	
			For >250 To 500, Deduct	-3.24	
			For >500, Deduct	-3.89	
05 05 23 00-1164	EA		1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	81.22	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-1165	EA		1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	90.37	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-1166	EA		1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	91.69	
			For >100 To 250, Deduct	-2.64	
			For >250 To 500, Deduct	-3.31	
			For >500, Deduct	-3.97	
05 05 23 00-1167	EA		1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	94.92	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1168	EA		1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	96.17	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1169	EA		1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	111.36	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1170	EA		1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	126.02	
			For >100 To 250, Deduct	-2.69	
			For >250 To 500, Deduct	-3.37	
			For >500, Deduct	-4.04	
05 05 23 00-1171			Screws (05 05 23)		
05 05 23 00-1172			Teks® 5 Self Drilling Screws (05 05 23 00-1171)		
			Note: Includes Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1173	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	4.62	
			For >10 To 50, Deduct	-0.20	
			For >50 To 100, Deduct	-0.42	
			For >100, Deduct	-0.84	
05 05 23 00-1174	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.81	
			For >10 To 50, Deduct	-0.20	
			For >50 To 100, Deduct	-0.43	
			For >100, Deduct	-0.85	
05 05 23 00-1175	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	5.36	
			For >10 To 50, Deduct	-0.22	
			For >50 To 100, Deduct	-0.46	
			For >100, Deduct	-0.92	
05 05 23 00-1176	EA		1/4" x 3", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	7.35	
			For >10 To 50, Deduct	-0.27	
			For >50 To 100, Deduct	-0.59	
			For >100, Deduct	-1.18	
05 05 23 00-1177	EA		1/4" x 4", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	7.85	
			For >10 To 50, Deduct	-0.29	
			For >50 To 100, Deduct	-0.62	
			For >100, Deduct	-1.25	
05 05 23 00-1178	EA		1/4" x 6", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	9.67	
			For >10 To 50, Deduct	-0.30	
			For >50 To 100, Deduct	-0.69	
			For >100, Deduct	-1.38	
05 05 23 00-1179	EA		1/4" x 8", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	10.79	
			For >10 To 50, Deduct	-0.31	
			For >50 To 100, Deduct	-0.74	
			For >100, Deduct	-1.48	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 05 23 00-1180	Security Screws (05 05 23 00-1171)			
05 05 23 00-1181	304/18-8 Stainless Steel, Security Screws (05 05 23 00-1180)			
	Note: Includes "security" style drive in machine or sheet metal screw threads.			
05 05 23 00-1182	EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	3.58		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.35		
	For >100, Deduct	-0.69		
05 05 23 00-1183	EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.01		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.36		
	For >100, Deduct	-0.71		
05 05 23 00-1184	EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.38		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.37		
	For >100, Deduct	-0.73		
05 05 23 00-1185	EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.50		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.37		
	For >100, Deduct	-0.74		
05 05 23 00-1186	EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	4.74		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.38		
	For >100, Deduct	-0.75		
05 05 23 00-1187	EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.11		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.36		
	For >100, Deduct	-0.72		
05 05 23 00-1188	EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.28		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.36		
	For >100, Deduct	-0.73		
05 05 23 00-1189	EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.65		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.37		
	For >100, Deduct	-0.75		
05 05 23 00-1190	EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	4.76		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.38		
	For >100, Deduct	-0.75		
05 05 23 00-1191	EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.22		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.36		
	For >100, Deduct	-0.72		
05 05 23 00-1192	EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.26		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.36		
	For >100, Deduct	-0.73		
05 05 23 00-1193	EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.42		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.37		
	For >100, Deduct	-0.73		
05 05 23 00-1194	EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	4.92		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.38		
	For >100, Deduct	-0.76		
05 05 23 00-1195	EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.50		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.37		
	For >100, Deduct	-0.74		
05 05 23 00-1196	EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.62		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.37		
	For >100, Deduct	-0.74		
05 05 23 00-1197	EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.09		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.38		
	For >100, Deduct	-0.77		
05 05 23 00-1198	EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.84		
	For >10 To 50, Deduct	-0.17		
	For >50 To 100, Deduct	-0.40		
	For >100, Deduct	-0.81		
05 05 23 00-1199	Threaded Rod (05 05 23)			
	Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1292 for nuts and washers.			
05 05 23 00-1200	Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1199)			
05 05 23 00-1201	LF 1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.39	0.58	
	For Left Hand Threaded Rod, Add	0.12		
05 05 23 00-1202	LF 5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.14	0.64	
	For Left Hand Threaded Rod, Add	0.19		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1203	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.65	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.22	
05 05 23 00-1204	LF	7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.93	0.74
		<i>For Left Hand Threaded Rod, Add</i>	0.34	
05 05 23 00-1205	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.04	0.77
		<i>For Left Hand Threaded Rod, Add</i>	0.35	
05 05 23 00-1206	LF	9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.25	0.78
		<i>For Left Hand Threaded Rod, Add</i>	0.47	
05 05 23 00-1207	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.03	0.79
		<i>For Left Hand Threaded Rod, Add</i>	0.54	
05 05 23 00-1208	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.53	0.82
		<i>For Left Hand Threaded Rod, Add</i>	0.99	
05 05 23 00-1209	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	12.56	0.85
		<i>For Left Hand Threaded Rod, Add</i>	1.09	
05 05 23 00-1210	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.19	0.95
		<i>For Left Hand Threaded Rod, Add</i>	1.53	
05 05 23 00-1211	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	21.37	1.06
		<i>For Left Hand Threaded Rod, Add</i>	1.93	
05 05 23 00-1212	LF	1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	28.37	1.15
		<i>For Left Hand Threaded Rod, Add</i>	2.60	
05 05 23 00-1213	LF	1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	35.29	1.25
		<i>For Left Hand Threaded Rod, Add</i>	3.28	
05 05 23 00-1214	LF	1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	42.20	1.30
		<i>For Left Hand Threaded Rod, Add</i>	3.96	
05 05 23 00-1215	LF	1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	51.76	1.36
		<i>For Left Hand Threaded Rod, Add</i>	4.90	
05 05 23 00-1216	LF	2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	66.10	1.44
		<i>For Left Hand Threaded Rod, Add</i>	6.32	
05 05 23 00-1217 Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1199)				
05 05 23 00-1218	LF	1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.41	0.58
		<i>For Left Hand Threaded Rod, Add</i>	0.13	
05 05 23 00-1219	LF	5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.55	0.64
		<i>For Left Hand Threaded Rod, Add</i>	0.23	
05 05 23 00-1220	LF	3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.96	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.25	
05 05 23 00-1221	LF	7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	5.70	0.74
		<i>For Left Hand Threaded Rod, Add</i>	0.42	
05 05 23 00-1222	LF	1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.13	0.77
		<i>For Left Hand Threaded Rod, Add</i>	0.46	
05 05 23 00-1223	LF	9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	8.02	0.78
		<i>For Left Hand Threaded Rod, Add</i>	0.65	
05 05 23 00-1224	LF	5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	8.52	0.79
		<i>For Left Hand Threaded Rod, Add</i>	0.69	
05 05 23 00-1225	LF	3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	12.81	0.82
		<i>For Left Hand Threaded Rod, Add</i>	1.12	
05 05 23 00-1226	LF	7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	16.58	0.85
		<i>For Left Hand Threaded Rod, Add</i>	1.49	
05 05 23 00-1227	LF	1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	22.25	0.95
		<i>For Left Hand Threaded Rod, Add</i>	2.03	
05 05 23 00-1228	LF	1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	28.70	1.06
		<i>For Left Hand Threaded Rod, Add</i>	2.66	
05 05 23 00-1229	LF	1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	34.26	1.15
		<i>For Left Hand Threaded Rod, Add</i>	3.19	
05 05 23 00-1230	LF	1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	38.94	1.25
		<i>For Left Hand Threaded Rod, Add</i>	3.64	
05 05 23 00-1231	LF	1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	49.02	1.30
		<i>For Left Hand Threaded Rod, Add</i>	4.64	
05 05 23 00-1232	LF	1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	60.74	1.36
		<i>For Left Hand Threaded Rod, Add</i>	5.80	
05 05 23 00-1233	LF	2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	88.62	1.44
		<i>For Left Hand Threaded Rod, Add</i>	8.58	
05 05 23 00-1234 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1199)				
05 05 23 00-1235	LF	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	6.51	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.51	
05 05 23 00-1236	LF	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	9.11	0.77
		<i>For Left Hand Threaded Rod, Add</i>	0.76	
05 05 23 00-1237	LF	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	12.29	0.79
		<i>For Left Hand Threaded Rod, Add</i>	1.07	
05 05 23 00-1238	LF	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	16.87	0.82
		<i>For Left Hand Threaded Rod, Add</i>	1.52	
05 05 23 00-1239	LF	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	23.34	0.85
		<i>For Left Hand Threaded Rod, Add</i>	2.17	
05 05 23 00-1240	LF	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	30.11	0.95
		<i>For Left Hand Threaded Rod, Add</i>	2.82	
05 05 23 00-1241	LF	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	39.60	1.06
		<i>For Left Hand Threaded Rod, Add</i>	3.75	
05 05 23 00-1242	LF	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	52.09	1.15
		<i>For Left Hand Threaded Rod, Add</i>	4.97	
05 05 23 00-1243	LF	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	58.21	1.25
		<i>For Left Hand Threaded Rod, Add</i>	5.57	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1244 LF 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	69.28 6.67	1.30
05 05 23 00-1245 LF 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	84.18 8.14	1.36
05 05 23 00-1246 LF 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	146.90 14.40	1.44
05 05 23 00-1247 304/18-8 Stainless Steel Threaded Rod (05 05 23 00-1199)		
05 05 23 00-1248 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	3.41 0.23	0.58
05 05 23 00-1249 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	5.12 0.39	0.64
05 05 23 00-1250 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	6.59 0.52	0.73
05 05 23 00-1251 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	9.15 0.77	0.74
05 05 23 00-1252 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	10.97 0.94	0.77
05 05 23 00-1253 LF 9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	15.76 1.42	0.78
05 05 23 00-1254 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	16.46 1.49	0.79
05 05 23 00-1255 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	23.04 2.14	0.82
05 05 23 00-1256 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	31.68 3.00	0.85
05 05 23 00-1257 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	40.64 3.87	0.95
05 05 23 00-1258 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	86.00 8.36	1.15
05 05 23 00-1259 LF 1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	130.92 12.83	1.30
05 05 23 00-1260 LF 1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	134.68 13.19	1.36
05 05 23 00-1261 LF 2" Diameter, 304/18-8 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	186.34 18.35	1.44
05 05 23 00-1262 316 Stainless Steel Threaded Rod (05 05 23 00-1199)		
05 05 23 00-1263 LF 1/4" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	4.93 0.38	0.58
05 05 23 00-1264 LF 5/16" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	7.93 0.67	0.64
05 05 23 00-1265 LF 3/8" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	10.53 0.91	0.73
05 05 23 00-1266 LF 7/16" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	16.44 1.50	0.74
05 05 23 00-1267 LF 1/2" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	17.43 1.59	0.77
05 05 23 00-1268 LF 9/16" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	22.86 2.13	0.78
05 05 23 00-1269 LF 5/8" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	24.60 2.30	0.79
05 05 23 00-1270 LF 3/4" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	35.86 3.42	0.82
05 05 23 00-1271 LF 7/8" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	49.08 4.74	0.85
05 05 23 00-1272 LF 1" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	62.11 6.02	0.95
05 05 23 00-1273 LF 1-1/4" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	131.10 12.87	1.15
05 05 23 00-1274 LF 1-1/2" Diameter, 316 Stainless Steel Threaded Rod <i>For Left Hand Threaded Rod, Add</i>	171.82 16.92	1.30
05 05 23 00-1275 Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1199)		
05 05 23 00-1276 LF 1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	4.14 1.50	0.58
05 05 23 00-1277 LF 5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.39 2.57	0.64
05 05 23 00-1278 LF 3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	6.69 2.63	0.73
05 05 23 00-1279 LF 7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	7.31 2.91	0.74
05 05 23 00-1280 LF 1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	8.05 3.26	0.77
05 05 23 00-1281 LF 9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	10.06 4.25	0.78
05 05 23 00-1282 LF 5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	10.38 4.40	0.79
05 05 23 00-1283 LF 3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod <i>For Zinc Plating, Add</i>	13.80 6.08	0.82



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1284	LF		7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	16.54	0.85
			For Zinc Plating, Add	7.43	
05 05 23 00-1285	LF		1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	21.46	0.95
			For Zinc Plating, Add	9.77	
05 05 23 00-1286	LF		1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	27.92	1.06
			For Zinc Plating, Add	12.90	
05 05 23 00-1287	LF		1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	31.09	1.15
			For Zinc Plating, Add	14.35	
05 05 23 00-1288	LF		1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	35.88	1.25
			For Zinc Plating, Add	16.69	
05 05 23 00-1289	LF		1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	43.64	1.30
			For Zinc Plating, Add	20.52	
05 05 23 00-1290	LF		1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	45.12	1.36
			For Zinc Plating, Add	21.19	
05 05 23 00-1291	LF		2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	60.57	1.44
			For Zinc Plating, Add	28.85	
05 05 23 00-1292			Nuts And Washers (05 05 23)		
05 05 23 00-1293			Hex Nuts (05 05 23 00-1292)		
05 05 23 00-1294			Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1295	EA		1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.75	0.34
05 05 23 00-1296	EA		5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.83	0.34
05 05 23 00-1297	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.89	0.34
05 05 23 00-1298	EA		7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.02	0.34
05 05 23 00-1299	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.10	0.34
05 05 23 00-1300	EA		9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.41	0.34
05 05 23 00-1301	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.46	0.34
05 05 23 00-1302	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.71	0.68
05 05 23 00-1303	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.42	0.68
05 05 23 00-1304	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	3.06	0.68
05 05 23 00-1305	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.91	0.68
05 05 23 00-1306	EA		1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.98	0.68
05 05 23 00-1307	EA		1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	8.71	0.68
05 05 23 00-1308	EA		1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	10.05	1.02
05 05 23 00-1309	EA		1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	14.66	1.02
05 05 23 00-1310	EA		2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	21.08	1.02
05 05 23 00-1311			Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1312	EA		1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.77	0.34
05 05 23 00-1313	EA		5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.84	0.34
05 05 23 00-1314	EA		3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.92	0.34
05 05 23 00-1315	EA		7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.05	0.34
05 05 23 00-1316	EA		1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.21	0.34
05 05 23 00-1317	EA		9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.44	0.34
05 05 23 00-1318	EA		5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.49	0.34
05 05 23 00-1319	EA		3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.91	0.68
05 05 23 00-1320	EA		7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.63	0.68
05 05 23 00-1321	EA		1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	3.67	0.68
05 05 23 00-1322	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	5.52	0.68
05 05 23 00-1323	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	7.74	0.68
05 05 23 00-1324	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	11.28	0.68
05 05 23 00-1325	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	12.44	1.02
05 05 23 00-1326	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	22.26	1.02
05 05 23 00-1327	EA		2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	31.81	1.02
05 05 23 00-1328			Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1329	EA		1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.78	0.34
05 05 23 00-1330	EA		5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.89	0.34
05 05 23 00-1331	EA		3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.97	0.34
05 05 23 00-1332	EA		7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.18	0.34
05 05 23 00-1333	EA		1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.39	0.34
05 05 23 00-1334	EA		9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.64	0.34
05 05 23 00-1335	EA		5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.86	0.34
05 05 23 00-1336	EA		3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.28	0.68
05 05 23 00-1337	EA		7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.34	0.68
05 05 23 00-1338	EA		1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	4.42	0.68
05 05 23 00-1339	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	6.84	0.68
05 05 23 00-1340	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	8.50	0.68
05 05 23 00-1341	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	13.88	0.68
05 05 23 00-1342	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	14.71	1.02
05 05 23 00-1343	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	22.32	1.02
05 05 23 00-1344	EA		2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	31.46	1.02
05 05 23 00-1345			Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1293)		
05 05 23 00-1346	EA		1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.78	0.34
05 05 23 00-1347	EA		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.87	0.34

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1348	EA	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.95	0.34
05 05 23 00-1349	EA	7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.16	0.34
05 05 23 00-1350	EA	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.32	0.34
05 05 23 00-1351	EA	9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.45	0.34
05 05 23 00-1352	EA	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.60	0.34
05 05 23 00-1353	EA	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.10	0.68
05 05 23 00-1354	EA	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.97	0.68
05 05 23 00-1355	EA	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	4.05	0.68
05 05 23 00-1356	EA	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	6.62	0.68
05 05 23 00-1357	EA	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	8.45	0.68
05 05 23 00-1358	EA	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	12.45	0.68
05 05 23 00-1359	EA	1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	14.49	1.02
05 05 23 00-1360	EA	1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	25.11	1.02
05 05 23 00-1361	EA	2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	43.25	1.02
05 05 23 00-1362 304 Stainless Steel Hex Nuts (05 05 23 00-1293)				
05 05 23 00-1363	EA	1/4" Diameter, 304 Stainless Steel Hex Nut	0.86	0.34
05 05 23 00-1364	EA	5/16" Diameter, 304 Stainless Steel Hex Nut	1.01	0.34
05 05 23 00-1365	EA	3/8" Diameter, 304 Stainless Steel Hex Nut	1.13	0.34
05 05 23 00-1366	EA	7/16" Diameter, 304 Stainless Steel Hex Nut	1.63	0.34
05 05 23 00-1367	EA	1/2" Diameter, 304 Stainless Steel Hex Nut	1.76	0.34
05 05 23 00-1368	EA	9/16" Diameter, 304 Stainless Steel Hex Nut	2.62	0.34
05 05 23 00-1369	EA	5/8" Diameter, 304 Stainless Steel Hex Nut	2.92	0.34
05 05 23 00-1370	EA	3/4" Diameter, 304 Stainless Steel Hex Nut	3.34	0.68
05 05 23 00-1371	EA	7/8" Diameter, 304 Stainless Steel Hex Nut	5.38	0.68
05 05 23 00-1372	EA	1" Diameter, 304 Stainless Steel Hex Nut	8.20	0.68
05 05 23 00-1373	EA	1-1/4" Diameter, 304 Stainless Steel Hex Nut	19.52	0.68
05 05 23 00-1374	EA	1-1/2" Diameter, 304 Stainless Steel Hex Nut	37.37	1.02
05 05 23 00-1375	EA	1-3/4" Diameter, 304 Stainless Steel Hex Nut	65.57	1.02
05 05 23 00-1376	EA	2" Diameter, 304 Stainless Steel Hex Nut	93.38	1.02
05 05 23 00-1377 316 Stainless Steel Hex Nuts (05 05 23 00-1293)				
05 05 23 00-1378	EA	1/4" Diameter, 316 Stainless Steel Hex Nut	0.99	0.34
05 05 23 00-1379	EA	5/16" Diameter, 316 Stainless Steel Hex Nut	1.13	0.34
05 05 23 00-1380	EA	3/8" Diameter, 316 Stainless Steel Hex Nut	1.33	0.34
05 05 23 00-1381	EA	7/16" Diameter, 316 Stainless Steel Hex Nut	2.11	0.34
05 05 23 00-1382	EA	1/2" Diameter, 316 Stainless Steel Hex Nut	2.26	0.34
05 05 23 00-1383	EA	9/16" Diameter, 316 Stainless Steel Hex Nut	3.04	0.34
05 05 23 00-1384	EA	5/8" Diameter, 316 Stainless Steel Hex Nut	3.43	0.34
05 05 23 00-1385	EA	3/4" Diameter, 316 Stainless Steel Hex Nut	4.73	0.68
05 05 23 00-1386	EA	7/8" Diameter, 316 Stainless Steel Hex Nut	6.52	0.68
05 05 23 00-1387	EA	1" Diameter, 316 Stainless Steel Hex Nut	10.01	0.68
05 05 23 00-1388	EA	1-1/4" Diameter, 316 Stainless Steel Hex Nut	30.18	0.68
05 05 23 00-1389	EA	1-1/2" Diameter, 316 Stainless Steel Hex Nut	48.72	1.02
05 05 23 00-1390	EA	1-3/4" Diameter, 316 Stainless Steel Hex Nut	82.12	1.02
05 05 23 00-1391	EA	2" Diameter, 316 Stainless Steel Hex Nut	152.49	1.02
05 05 23 00-1392 Flat Washers (05 05 23 00-1292)				
05 05 23 00-1393 Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1392)				
05 05 23 00-1394	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.05	
05 05 23 00-1395	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.07	
05 05 23 00-1396	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.13	
05 05 23 00-1397	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.20	
05 05 23 00-1398	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.29	
05 05 23 00-1399	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.33	
05 05 23 00-1400	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.56	
05 05 23 00-1401	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.81	
05 05 23 00-1402	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.96	
05 05 23 00-1403	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.18	
05 05 23 00-1404	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.33	
05 05 23 00-1405	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.59	
05 05 23 00-1406	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.50	
05 05 23 00-1407	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.56	
05 05 23 00-1408	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.79	
05 05 23 00-1409	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	4.71	
05 05 23 00-1410 Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1392)				
05 05 23 00-1411	EA	1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.17	
05 05 23 00-1412	EA	5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.24	
05 05 23 00-1413	EA	3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.27	
05 05 23 00-1414	EA	7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.37	
05 05 23 00-1415	EA	1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.50	
05 05 23 00-1416	EA	9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.81	
05 05 23 00-1417	EA	5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.16	
05 05 23 00-1418	EA	3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.63	
05 05 23 00-1419	EA	7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	2.72	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
05 05 23 00-1420	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer		3.02
05 05 23 00-1421	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer		4.39
05 05 23 00-1422	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer		4.79
05 05 23 00-1423	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer		6.32
05 05 23 00-1424	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer		7.22
05 05 23 00-1425	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer		9.71
05 05 23 00-1426	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer		11.65
05 05 23 00-1427	Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1392)			
05 05 23 00-1428	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		0.11
05 05 23 00-1429	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		0.16
05 05 23 00-1430	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		0.18
05 05 23 00-1431	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		0.34
05 05 23 00-1432	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		0.43
05 05 23 00-1433	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		0.71
05 05 23 00-1434	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		0.79
05 05 23 00-1435	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		1.20
05 05 23 00-1436	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		1.70
05 05 23 00-1437	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		1.86
05 05 23 00-1438	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		2.85
05 05 23 00-1439	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		3.17
05 05 23 00-1440	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		4.53
05 05 23 00-1441	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		4.90
05 05 23 00-1442	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer		7.12
05 05 23 00-1443	304/18-8 Stainless Steel Flat Washers (05 05 23 00-1392)			
05 05 23 00-1444	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		0.14
05 05 23 00-1445	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		0.19
05 05 23 00-1446	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		0.27
05 05 23 00-1447	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		0.49
05 05 23 00-1448	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		0.90
05 05 23 00-1449	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		1.12
05 05 23 00-1450	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		1.64
05 05 23 00-1451	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		1.67
05 05 23 00-1452	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		3.53
05 05 23 00-1453	EA	1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		4.47
05 05 23 00-1454	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		5.20
05 05 23 00-1455	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		5.60
05 05 23 00-1456	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		5.92
05 05 23 00-1457	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		7.22
05 05 23 00-1458	EA	1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		8.97
05 05 23 00-1459	EA	2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer		17.62
05 05 23 00-1460	316 Stainless Steel Flat Washers (05 05 23 00-1392)			
05 05 23 00-1461	EA	1/4" Inside Diameter, 316 Stainless Steel Flat Washer		0.27
05 05 23 00-1462	EA	5/16" Inside Diameter, 316 Stainless Steel Flat Washer		0.30
05 05 23 00-1463	EA	3/8" Inside Diameter, 316 Stainless Steel Flat Washer		0.53
05 05 23 00-1464	EA	7/16" Inside Diameter, 316 Stainless Steel Flat Washer		0.63
05 05 23 00-1465	EA	1/2" Inside Diameter, 316 Stainless Steel Flat Washer		1.16
05 05 23 00-1466	EA	9/16" Inside Diameter, 316 Stainless Steel Flat Washer		2.09
05 05 23 00-1467	EA	5/8" Inside Diameter, 316 Stainless Steel Flat Washer		2.47
05 05 23 00-1468	EA	3/4" Inside Diameter, 316 Stainless Steel Flat Washer		3.11
05 05 23 00-1469	EA	7/8" Inside Diameter, 316 Stainless Steel Flat Washer		4.81
05 05 23 00-1470	EA	1" Inside Diameter, 316 Stainless Steel Flat Washer		5.38
05 05 23 00-1471	EA	1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer		6.13
05 05 23 00-1472	EA	1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer		7.55
05 05 23 00-1473	EA	1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer		7.98
05 05 23 00-1474	EA	1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer		8.16
05 05 23 00-1475	EA	1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer		11.96
05 05 23 00-1476	Lock Washers (05 05 23 00-1292)			
05 05 23 00-1477	Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1476)			
05 05 23 00-1478	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.02
05 05 23 00-1479	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.03
05 05 23 00-1480	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.05
05 05 23 00-1481	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.08
05 05 23 00-1482	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.11
05 05 23 00-1483	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.19
05 05 23 00-1484	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.21
05 05 23 00-1485	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.32
05 05 23 00-1486	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.54
05 05 23 00-1487	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		0.96
05 05 23 00-1488	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		1.41
05 05 23 00-1489	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		2.16
05 05 23 00-1490	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		3.42
05 05 23 00-1491	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer		4.02

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

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1492	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	7.18	
05 05 23 00-1493	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	8.09	
05 05 23 00-1494 Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1476)				
05 05 23 00-1495	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.09	
05 05 23 00-1496	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.11	
05 05 23 00-1497	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.14	
05 05 23 00-1498	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.15	
05 05 23 00-1499	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.24	
05 05 23 00-1500	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.31	
05 05 23 00-1501	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.37	
05 05 23 00-1502	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.62	
05 05 23 00-1503	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.89	
05 05 23 00-1504	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.41	
05 05 23 00-1505	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.55	
05 05 23 00-1506	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.04	
05 05 23 00-1507	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	4.39	
05 05 23 00-1508	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.02	
05 05 23 00-1509	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	6.79	
05 05 23 00-1510	EA	2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	9.25	
05 05 23 00-1511 304/18-8 Stainless Steel Lock Washers (05 05 23 00-1476)				
05 05 23 00-1512	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.12	
05 05 23 00-1513	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.16	
05 05 23 00-1514	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.23	
05 05 23 00-1515	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.43	
05 05 23 00-1516	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.48	
05 05 23 00-1517	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.15	
05 05 23 00-1518	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.36	
05 05 23 00-1519	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.58	
05 05 23 00-1520	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.87	
05 05 23 00-1521	EA	1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	4.05	
05 05 23 00-1522	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	7.07	
05 05 23 00-1523	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	9.40	
05 05 23 00-1524	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	11.96	
05 05 23 00-1525	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	14.35	
05 05 23 00-1526 316 Stainless Steel Lock Washers (05 05 23 00-1476)				
05 05 23 00-1527	EA	1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.14	
05 05 23 00-1528	EA	5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.31	
05 05 23 00-1529	EA	3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.36	
05 05 23 00-1530	EA	7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.62	
05 05 23 00-1531	EA	1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.69	
05 05 23 00-1532	EA	9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.23	
05 05 23 00-1533	EA	5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.35	
05 05 23 00-1534	EA	3/4" Inside Diameter, 316 Stainless Steel Lock Washer	2.33	
05 05 23 00-1535	EA	7/8" Inside Diameter, 316 Stainless Steel Lock Washer	3.86	
05 05 23 00-1536	EA	1" Inside Diameter, 316 Stainless Steel Lock Washer	5.25	
05 05 23 00-1537	EA	1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	7.32	
05 05 23 00-1538	EA	1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	11.27	
05 05 23 00-1539	EA	1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	20.18	
05 05 23 00-1540	EA	1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	22.40	
05 05 23 00-1541 Load Indicating Washers (05 05 23 00-1292)				
05 05 23 00-1542 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1541)				
05 05 23 00-1543 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1542)				
05 05 23 00-1544	EA	1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.34	
05 05 23 00-1545	EA	5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.65	
05 05 23 00-1546	EA	3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.86	
05 05 23 00-1547	EA	7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.25	
05 05 23 00-1548	EA	1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.92	
05 05 23 00-1549	EA	1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	6.52	
05 05 23 00-1550	EA	1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	8.42	
05 05 23 00-1551	EA	1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	10.75	
05 05 23 00-1552	EA	1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	11.83	
05 05 23 00-1553 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1542)				
05 05 23 00-1554	EA	1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.96	
05 05 23 00-1555	EA	5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.30	
05 05 23 00-1556	EA	3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.21	
05 05 23 00-1557	EA	7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1558 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.65	
05 05 23 00-1559 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	7.00	
05 05 23 00-1560 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	8.81	
05 05 23 00-1561 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	12.54	
05 05 23 00-1562 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	13.79	
05 05 23 00-1563 Beveled Washers (05 05 23 00-1292)		
05 05 23 00-1564 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1563)		
05 05 23 00-1565 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.87	
05 05 23 00-1566 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.95	
05 05 23 00-1567 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.04	
05 05 23 00-1568 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.90	
05 05 23 00-1569 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436)	5.16	
05 05 23 00-1570 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1563)		
05 05 23 00-1571 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.56	
05 05 23 00-1572 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.81	
05 05 23 00-1573 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436)	5.81	
05 05 23 00-1574 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.15	
05 05 23 00-1575 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436)	6.54	
05 05 23 00-1576 Welded Stud Anchors (05 05 23)		
05 05 23 00-1577 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.47	
05 05 23 00-1578 EA 2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors	4.57	
05 05 23 00-1579 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.61	
05 05 23 00-1580 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.65	
05 05 23 00-1581 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.40	
05 05 23 00-1582 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.63	
05 05 23 00-1583 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.87	
05 05 23 00-1584 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.99	
05 05 23 00-1585 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.12	
05 05 23 00-1586 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.60	
05 05 23 00-1587 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	6.00	
05 05 23 00-1588 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	6.32	
05 05 23 00-1589 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.40	
05 05 23 00-1590 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.43	
05 05 23 00-1591 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.79	
05 05 23 00-1592 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.14	
05 05 23 00-1593 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.57	
05 05 23 00-1594 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.23	
05 05 23 00-1595 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.66	
05 05 23 00-1596 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	8.83	
05 05 23 00-1597 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	11.03	
05 05 23 00-1598 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.68	
05 05 23 00-1599 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.24	
05 05 23 00-1600 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.69	
05 05 23 00-1601 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.15	
05 05 23 00-1602 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.52	
05 05 23 00-1603 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.86	
05 05 23 00-1604 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	10.31	
05 05 23 00-1605 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	12.20	
05 05 23 00-1606 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	14.81	
05 05 23 00-1607 Welded Shear Stud Connector (05 05 23)		
05 05 23 00-1608 3/4" Diameter Welded Shear Stud Connector (05 05 23 00-1607)		
05 05 23 00-1609 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector	9.83	
05 05 23 00-1610 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector	10.23	
05 05 23 00-1611 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector	10.34	
05 05 23 00-1612 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector	10.39	
05 05 23 00-1613 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector	10.84	
05 05 23 00-1614 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector	11.67	
05 05 23 00-1615 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector	19.67	
05 05 23 00-1616 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector	12.63	
05 05 23 00-1617 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector	14.09	
05 05 23 00-1618 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector	18.43	
05 05 23 00-1619 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	18.88	
05 05 23 00-1620 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	20.48	
05 05 23 00-1621 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	27.18	
05 05 23 00-1622 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1607)		
05 05 23 00-1623 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	11.83	
05 05 23 00-1624 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	12.47	
05 05 23 00-1625 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	13.10	
05 05 23 00-1626 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	14.94	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 05 23 00-1627	EA	7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	19.41	
05 05 23 00-1628	EA	7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	21.36	
05 05 23 00-1629	EA	7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	23.27	
05 05 23 00-1630	EA	7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	28.64	

05 05 23 00-1631 1" Diameter Welded Shear Stud Connector (05 05 23 00-1607)

05 05 23 00-1632	EA	1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	16.00	
05 05 23 00-1633	EA	1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	17.97	
05 05 23 00-1634	EA	1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	20.87	
05 05 23 00-1635	EA	1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	26.67	
05 05 23 00-1636	EA	1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	29.70	
05 05 23 00-1637	EA	1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	32.73	

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

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

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

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

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

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

05 12 23 00-0003	TON	Up To 30 Lb./LF Beams, Girders And Columns.....	10,889.84	1,369.90
		For ASTM A242 Type 2 High Strength Steel, Add	644.46	
		For Hot Dip Galvanizing, Add	2,255.63	
		For >10 To 25 Tons, Deduct	-684.74	
		For >25 To 50 Tons, Deduct	-1,409.77	
		For >50 To 75 Tons, Deduct	-2,013.95	
		For >75 Tons, Deduct	-1,006.98	
05 12 23 00-0004	TON	>30-65 Lb./LF Beams, Girders And Columns.....	7,556.15	885.54
		For ASTM A242 Type 2 High Strength Steel, Add	528.92	
		For Hot Dip Galvanizing, Add	1,851.21	
		For >10 To 25 Tons, Deduct	-561.97	
		For >25 To 50 Tons, Deduct	-1,157.01	
		For >50 To 75 Tons, Deduct	-1,652.87	
		For >75 Tons, Deduct	-826.43	
05 12 23 00-0005	TON	>65-100 Lb./LF Beams, Girders And Columns.....	6,400.94	498.17
		For ASTM A242 Type 2 High Strength Steel, Add	469.56	
		For Hot Dip Galvanizing, Add	1,643.48	
		For >10 To 25 Tons, Deduct	-498.91	
		For >25 To 50 Tons, Deduct	-1,027.17	
		For >50 To 75 Tons, Deduct	-1,467.39	
		For >75 Tons, Deduct	-733.70	
05 12 23 00-0006	TON	>100-300 Lb./LF Beams, Girders And Columns.....	4,295.93	265.16
		For ASTM A242 Type 2 High Strength Steel, Add	321.00	
		For Hot Dip Galvanizing, Add	1,123.51	
		For >10 To 25 Tons, Deduct	-341.07	
		For >25 To 50 Tons, Deduct	-702.19	
		For >50 To 75 Tons, Deduct	-1,003.13	
		For >75 Tons, Deduct	-501.57	

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

05 12 23 00-0008	TON	Built-Up Trusses, Rolled Structural Steel Members.....	8,017.37	931.65
		For ASTM A242 Type 2 High Strength Steel, Add	561.93	
		For Hot Dip Galvanizing, Add	1,966.76	
		For >10 To 25 Tons, Deduct	-597.05	
		For >25 To 50 Tons, Deduct	-1,229.22	
		For >50 To 75 Tons, Deduct	-1,756.03	
		For >75 Tons, Deduct	-878.02	

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

05 12 23 00-0011	TON	Up To 10 Lb./LF Rolled Shape Steel Angles.....	15,878.12	2,546.64
		For ASTM A242 Type 2 High Strength Steel, Add	930.70	
		For Hot Dip Galvanizing, Add	3,257.44	
		For >10 To 25 Tons, Deduct	-988.87	
		For >25 To 50 Tons, Deduct	-2,035.90	
		For >50 To 75 Tons, Deduct	-2,908.43	
		For >75 Tons, Deduct	-1,454.22	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0012	TON	>10 To 20 Lb./LF Rolled Shape Steel Angles	.....	13,962.89	1,494.51
		For ASTM A242 Type 2 High Strength Steel, Add		890.31	
		For Hot Dip Galvanizing, Add		3,116.08	
		For >10 To 25 Tons, Deduct		-945.95	
		For >25 To 50 Tons, Deduct		-1,947.55	
		For >50 To 75 Tons, Deduct		-2,782.22	
		For >75 Tons, Deduct		-1,391.11	
05 12 23 00-0013	TON	>20 To 58 Lb./LF Rolled Shape Steel Angles	.....	10,734.41	885.54
		For ASTM A242 Type 2 High Strength Steel, Add		783.19	
		For Hot Dip Galvanizing, Add		2,741.17	
		For >10 To 25 Tons, Deduct		-832.14	
		For >25 To 50 Tons, Deduct		-1,713.23	
		For >50 To 75 Tons, Deduct		-2,447.47	
		For >75 Tons, Deduct		-1,223.74	
05 12 23 00-0014		Rolled C, MC Steel Channels	(05 12 23 00-0009)		
05 12 23 00-0015	TON	Up To 10 Lb./LF Rolled C, MC Steel Channels	.....	17,297.45	3,487.18
		For ASTM A242 Type 2 High Strength Steel, Add		916.65	
		For Hot Dip Galvanizing, Add		3,208.27	
		For >10 To 25 Tons, Deduct		-973.94	
		For >25 To 50 Tons, Deduct		-2,005.17	
		For >50 To 75 Tons, Deduct		-2,864.53	
		For >75 Tons, Deduct		-1,432.26	
05 12 23 00-0016	TON	>10 To 20 Rolled C, MC Steel Channels	.....	13,809.23	2,656.90
		For ASTM A242 Type 2 High Strength Steel, Add		878.02	
		For Hot Dip Galvanizing, Add		3,073.06	
		For >10 To 25 Tons, Deduct		-932.89	
		For >25 To 50 Tons, Deduct		-1,920.66	
		For >50 To 75 Tons, Deduct		-2,743.80	
		For >75 Tons, Deduct		-1,371.90	
05 12 23 00-0017	TON	>20 To 58 Lb./LF Rolled C, MC Steel Channels	.....	10,558.81	885.54
		For ASTM A242 Type 2 High Strength Steel, Add		769.14	
		For Hot Dip Galvanizing, Add		2,692.00	
		For >10 To 25 Tons, Deduct		-817.21	
		For >25 To 50 Tons, Deduct		-1,682.50	
		For >50 To 75 Tons, Deduct		-2,403.57	
		For >75 Tons, Deduct		-1,201.79	
05 12 23 00-0018		Double L Shape Steel Angles	(05 12 23 00-0009)		
05 12 23 00-0019	TON	Up To 20 Lb./LF Double L Shape Steel Angles	.....	14,731.72	2,020.58
		For ASTM A242 Type 2 High Strength Steel, Add		895.58	
		For Hot Dip Galvanizing, Add		3,134.52	
		For >10 To 25 Tons, Deduct		-951.55	
		For >25 To 50 Tons, Deduct		-1,959.07	
		For >50 To 75 Tons, Deduct		-2,798.68	
		For >75 Tons, Deduct		-1,399.34	
05 12 23 00-0020	TON	>20 To 50 Lb./LF Double L Shape Steel Angles	.....	11,480.73	885.54
		For ASTM A242 Type 2 High Strength Steel, Add		842.90	
		For Hot Dip Galvanizing, Add		2,950.14	
		For >10 To 25 Tons, Deduct		-895.58	
		For >25 To 50 Tons, Deduct		-1,843.84	
		For >50 To 75 Tons, Deduct		-2,634.05	
		For >75 Tons, Deduct		-1,317.03	
05 12 23 00-0021	TON	>50 To 80 Lb./LF Double L Shape Steel Angles	.....	8,653.03	498.17
		For ASTM A242 Type 2 High Strength Steel, Add		649.73	
		For Hot Dip Galvanizing, Add		2,274.06	
		For >10 To 25 Tons, Deduct		-690.34	
		For >25 To 50 Tons, Deduct		-1,421.29	
		For >50 To 75 Tons, Deduct		-2,030.41	
		For >75 Tons, Deduct		-1,015.21	
05 12 23 00-0022	TON	>80 To 115 Lb./LF Double L Shape Steel Angles	.....	5,551.06	265.56
		For ASTM A242 Type 2 High Strength Steel, Add		421.45	
		For Hot Dip Galvanizing, Add		1,475.07	
		For >10 To 25 Tons, Deduct		-447.79	
		For >25 To 50 Tons, Deduct		-921.92	
		For >50 To 75 Tons, Deduct		-1,317.03	
		For >75 Tons, Deduct		-658.51	
05 12 23 00-0023		Structural WT, MT, ST Tee Shapes	(05 12 23 00-0001)		
05 12 23 00-0024	TON	Up To 30 Lb./LF Structural WT, MT, ST Tee Shapes	.....	13,370.23	1,494.51
		For ASTM A242 Type 2 High Strength Steel, Add		842.90	
		For Hot Dip Galvanizing, Add		2,950.14	
		For >10 To 25 Tons, Deduct		-895.58	
		For >25 To 50 Tons, Deduct		-1,843.84	
		For >50 To 75 Tons, Deduct		-2,634.05	
		For >75 Tons, Deduct		-1,317.03	
05 12 23 00-0025	TON	>30 To 65 Lb./LF Structural WT, MT, ST Tee Shapes	.....	9,000.48	885.54
		For ASTM A242 Type 2 High Strength Steel, Add		644.46	
		For Hot Dip Galvanizing, Add		2,255.62	
		For >10 To 25 Tons, Deduct		-684.74	
		For >25 To 50 Tons, Deduct		-1,409.77	
		For >50 To 75 Tons, Deduct		-2,013.95	
		For >75 Tons, Deduct		-1,006.98	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0026 TON >65 To 100 Lb./LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	7,116.50 526.81 1,843.83 -559.74 -1,152.40 -1,646.28 -823.14	498.17
05 12 23 00-0027 TON >100 To 365 Lb./LF Structural WT, MT, ST Tee Shapes..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	5,244.19 396.86 1,389.02 -421.67 -868.14 -1,240.20 -620.10	265.16
05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030 TON Up To 30 Lb./LF Combination Section - W Shapes And Angles..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,689.76 788.46 2,759.60 -837.74 -1,724.75 -2,463.93 -1,231.97	1,494.51
05 12 23 00-0031 TON >30-65 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,066.35 649.73 2,274.07 -690.34 -1,421.29 -2,030.42 -1,015.21	885.54
05 12 23 00-0032 TON >65-100 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	6,567.74 482.91 1,690.18 -513.09 -1,056.36 -1,509.09 -754.55	498.17
05 12 23 00-0033 TON >100-300 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	5,682.77 431.98 1,511.95 -458.98 -944.97 -1,349.95 -674.98	265.16
05 12 23 00-0034 TON >300-500 Lb./LF Combination Section - W Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	4,904.95 381.06 1,333.71 -404.88 -833.57 -1,190.81 -595.41	133.11
05 12 23 00-0035 Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036 TON >30-65 Lb./LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,715.13 621.64 2,175.73 -660.49 -1,359.83 -1,942.61 -971.31	885.54
05 12 23 00-0037 TON >65-100 Lb./LF Combination Section - S Shapes And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	6,589.69 484.66 1,696.33 -514.96 -1,060.20 -1,514.58 -757.29	498.17
05 12 23 00-0038 Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039 TON Up To 30 Lb./LF Combination Section - Channels And Angles For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	13,370.23 842.90 2,950.14 -895.58 -1,843.84 -2,634.05 -1,317.03	1,494.51



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0040	TON	>30-65 Lb./LF Combination Section - Channels And Angles.....	9,505.34	885.54	
		For ASTM A242 Type 2 High Strength Steel, Add	684.85		
		For Hot Dip Galvanizing, Add	2,396.98		
		For >10 To 25 Tons, Deduct	-727.66		
		For >25 To 50 Tons, Deduct	-1,498.12		
		For >50 To 75 Tons, Deduct	-2,140.17		
		For >75 Tons, Deduct	-1,070.08		
05 12 23 00-0041	TON	>65-100 Lb./LF Combination Section - Channels And Angles.....	6,743.35	498.17	
		For ASTM A242 Type 2 High Strength Steel, Add	496.96		
		For Hot Dip Galvanizing, Add	1,739.35		
		For >10 To 25 Tons, Deduct	-528.02		
		For >25 To 50 Tons, Deduct	-1,087.09		
		For >50 To 75 Tons, Deduct	-1,552.99		
		For >75 Tons, Deduct	-776.50		
05 12 23 00-0042		Standard Weight Pipe (05 12 23 00-0001)			
05 12 23 00-0043	TON	1/2" To 5" Diameter Standard Weight Pipe.....	7,698.74	797.08	
		For ASTM A242 Type 2 High Strength Steel, Add	547.88		
		For Hot Dip Galvanizing, Add	1,917.59		
		For >10 To 25 Tons, Deduct	-582.13		
		For >25 To 50 Tons, Deduct	-1,198.49		
		For >50 To 75 Tons, Deduct	-1,712.13		
		For >75 Tons, Deduct	-856.07		
05 12 23 00-0044	TON	>5" To 12" Diameter Standard Weight Pipe.....	8,218.59	996.33	
		For ASTM A242 Type 2 High Strength Steel, Add	572.47		
		For Hot Dip Galvanizing, Add	2,003.63		
		For >10 To 25 Tons, Deduct	-608.25		
		For >25 To 50 Tons, Deduct	-1,252.27		
		For >50 To 75 Tons, Deduct	-1,788.96		
		For >75 Tons, Deduct	-894.48		
05 12 23 00-0045		Temporary Steel Support For Structures (05 12 23 00-0001)			
		Note: Includes removal after use.			
05 12 23 00-0046	TON	Up To 30 Lb./LF Temporary Steel Support For Structures	10,889.84		
		Note: For all stock sections.			
05 12 23 00-0047	TON	>30 Lb./LF Temporary Steel Support For Structures.....	7,556.15		
		Note: For all stock sections.			
05 12 23 00-0048		Structural Steel Shapes (05 12 23)			
		Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0131 for field fabrication of additional structural metal connections.			
05 12 23 00-0049		Steel Rods (05 12 23 00-0048)			
05 12 23 00-0050	TON	1/2" To 5" Diameter Extra Strong Steel, Solid.....	8,302.97	622.78	
		For ASTM A242 Type 2 High Strength Steel, Add	611.10		
		For Hot Dip Galvanizing, Add	2,138.85		
		For >10 To 25 Tons, Deduct	-649.29		
		For >25 To 50 Tons, Deduct	-1,336.78		
		For >50 To 75 Tons, Deduct	-1,909.69		
		For >75 Tons, Deduct	-954.84		
05 12 23 00-0051	TON	>5" To 12" Diameter Extra Strong Steel, Solid	9,505.34	885.54	
		For ASTM A242 Type 2 High Strength Steel, Add	684.85		
		For Hot Dip Galvanizing, Add	2,396.98		
		For >10 To 25 Tons, Deduct	-727.66		
		For >25 To 50 Tons, Deduct	-1,498.12		
		For >50 To 75 Tons, Deduct	-2,140.17		
		For >75 Tons, Deduct	-1,070.08		
05 12 23 00-0052		Column Base Plates (05 12 23 00-0048)			
05 12 23 00-0053	LB	Column Base Plates, Up To 150 Lb. / Each, A36 Miscellaneous Steel Items.....	4.14	0.81	
		For ASTM A242 Type 2 High Strength Steel, Add	0.26		
		For Hot Dip Galvanizing, Add	0.92		
05 12 23 00-0054	LB	Column Base Plates, >150 Lb. / Each, A36 Miscellaneous Steel Items	3.90	0.69	
		For ASTM A242 Type 2 High Strength Steel, Add	0.25		
		For Hot Dip Galvanizing, Add	0.88		
05 12 23 00-0055	TON	Column Base Plates, Up To 150 Lb. Each, A36 Miscellaneous Steel Items.....	7,556.34	718.37	
		For ASTM A242 Type 2 High Strength Steel, Add	543.21		
		For Hot Dip Galvanizing, Add	1,901.22		
		For >10 To 25 Tons, Deduct	-577.16		
		For >25 To 50 Tons, Deduct	-1,188.26		
		For >50 To 75 Tons, Deduct	-1,697.52		
		For >75 Tons, Deduct	-848.76		
05 12 23 00-0056	TON	Column Base Plates, >150 Lb. Each, A36 Miscellaneous Steel Items	5,370.93	431.02	
		For ASTM A242 Type 2 High Strength Steel, Add	392.89		
		For Hot Dip Galvanizing, Add	1,375.13		
		For >10 To 25 Tons, Deduct	-417.45		
		For >25 To 50 Tons, Deduct	-859.46		
		For >50 To 75 Tons, Deduct	-1,227.80		
		For >75 Tons, Deduct	-613.90		

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0057	Double Extra Strong Pipes (05 12 23 00-0048)			
05 12 23 00-0058	TON 2" To 5" Diameter Double Extra Strong Pipe 9,950.84		1,138.62	
	For ASTM A242 Type 2 High Strength Steel, Add	698.90		
	For Hot Dip Galvanizing, Add	2,446.15		
	For >10 To 25 Tons, Deduct	-742.58		
	For >25 To 50 Tons, Deduct	-1,528.85		
	For >50 To 75 Tons, Deduct	-2,184.07		
	For >75 Tons, Deduct	-1,092.03		
05 12 23 00-0059	TON >5" To 8" Diameter Double Extra Strong Pipe 9,390.26		613.08	
	For ASTM A242 Type 2 High Strength Steel, Add	698.90		
	For Hot Dip Galvanizing, Add	2,446.15		
	For >10 To 25 Tons, Deduct	-742.58		
	For >25 To 50 Tons, Deduct	-1,528.85		
	For >50 To 75 Tons, Deduct	-2,184.07		
	For >75 Tons, Deduct	-1,092.03		
05 12 23 00-0060	Structural Pipes (05 12 23 00-0048)			
05 12 23 00-0061	TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items.....6,955.52		526.06	
	For ASTM A242 Type 2 High Strength Steel, Add	491.69		
	For Hot Dip Galvanizing, Add	1,720.91		
	For >10 To 25 Tons, Deduct	-522.42		
	For >25 To 50 Tons, Deduct	-1,075.57		
	For >50 To 75 Tons, Deduct	-1,536.53		
	For >75 Tons, Deduct	-768.26		
05 12 23 00-0062	TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items 7,484.60		606.70	
	For ASTM A242 Type 2 High Strength Steel, Add	491.69		
	For Hot Dip Galvanizing, Add	1,720.91		
	For >10 To 25 Tons, Deduct	-522.42		
	For >25 To 50 Tons, Deduct	-1,075.57		
	For >50 To 75 Tons, Deduct	-1,536.53		
	For >75 Tons, Deduct	-768.26		
05 12 23 00-0063	Structural Tubing (05 12 23 00-0048)			
05 12 23 00-0064	Rectangle Structural Tubing (05 12 23 00-0063)			
05 12 23 00-0065	TON 3" x 2" Weight Range 5-7 Lb./LF Structural Tubing - Rectangle.....11,542.00		531.38	
	For ASTM A242 Type 2 High Strength Steel, Add	878.02		
	For Hot Dip Galvanizing, Add	3,073.06		
	For >10 To 25 Tons, Deduct	-932.89		
	For >25 To 50 Tons, Deduct	-1,920.66		
	For >50 To 75 Tons, Deduct	-2,743.80		
	For >75 Tons, Deduct	-1,371.90		
05 12 23 00-0066	TON 4" x 3", 2" Weight Range 6-13 Lb./LF Structural Tubing - Rectangle.....11,629.20		613.08	
	For ASTM A242 Type 2 High Strength Steel, Add	878.02		
	For Hot Dip Galvanizing, Add	3,073.06		
	For >10 To 25 Tons, Deduct	-932.89		
	For >25 To 50 Tons, Deduct	-1,920.66		
	For >50 To 75 Tons, Deduct	-2,743.80		
	For >75 Tons, Deduct	-1,371.90		
05 12 23 00-0067	TON 5" x 4", 3", 2" Weight Range 8-20 Lb./LF Structural Tubing - Rectangle.....10,147.19		664.23	
	For ASTM A242 Type 2 High Strength Steel, Add	755.09		
	For Hot Dip Galvanizing, Add	2,642.83		
	For >10 To 25 Tons, Deduct	-802.29		
	For >25 To 50 Tons, Deduct	-1,651.77		
	For >50 To 75 Tons, Deduct	-2,359.67		
	For >75 Tons, Deduct	-1,179.84		
05 12 23 00-0068	TON 6" x 4", 3", 2" Weight Range 9-29 Lb./LF Structural Tubing - Rectangle.....9,630.37		797.08	
	For ASTM A242 Type 2 High Strength Steel, Add	702.41		
	For Hot Dip Galvanizing, Add	2,458.44		
	For >10 To 25 Tons, Deduct	-746.31		
	For >25 To 50 Tons, Deduct	-1,536.53		
	For >50 To 75 Tons, Deduct	-2,195.04		
	For >75 Tons, Deduct	-1,097.52		
05 12 23 00-0069	TON 7" x 5", 4", 3" Weight Range 12-35 Lb./LF Structural Tubing - Rectangle.....9,468.17		885.54	
	For ASTM A242 Type 2 High Strength Steel, Add	681.88		
	For Hot Dip Galvanizing, Add	2,386.58		
	For >10 To 25 Tons, Deduct	-724.50		
	For >25 To 50 Tons, Deduct	-1,491.61		
	For >50 To 75 Tons, Deduct	-2,130.87		
	For >75 Tons, Deduct	-1,065.44		
05 12 23 00-0070	TON 8" x 6", 4", 3", 2" Weight Range 11-42 Lb./LF Structural Tubing - Rectangle 9,629.77		1,225.50	
	For ASTM A242 Type 2 High Strength Steel, Add	665.81		
	For Hot Dip Galvanizing, Add	2,330.32		
	For >10 To 25 Tons, Deduct	-707.42		
	For >25 To 50 Tons, Deduct	-1,456.45		
	For >50 To 75 Tons, Deduct	-2,080.64		
	For >75 Tons, Deduct	-1,040.32		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0071	TON	10" x 6", 4", 2" Weight Range 15-50 Lb./LF Structural Tubing - Rectangle	.....	10,025.33	1,620.05
		For ASTM A242 Type 2 High Strength Steel, Add		663.78	
		For Hot Dip Galvanizing, Add		2,323.23	
		For >10 To 25 Tons, Deduct		-705.27	
		For >25 To 50 Tons, Deduct		-1,452.02	
		For >50 To 75 Tons, Deduct		-2,074.32	
		For >75 Tons, Deduct		-1,037.16	
05 12 23 00-0072	TON	12" x 6", 4", 2" Weight Range 17-76 Lb./LF Structural Tubing - Rectangle	.....	10,272.74	1,769.63
		For ASTM A242 Type 2 High Strength Steel, Add		670.80	
		For Hot Dip Galvanizing, Add		2,347.82	
		For >10 To 25 Tons, Deduct		-712.73	
		For >25 To 50 Tons, Deduct		-1,467.39	
		For >50 To 75 Tons, Deduct		-2,096.27	
		For >75 Tons, Deduct		-1,048.13	
05 12 23 00-0073	TON	14" x 10", 6", 4" Weight Range 29-76 Lb./LF Structural Tubing - Rectangle	.....	10,510.59	1,992.68
		For ASTM A242 Type 2 High Strength Steel, Add		670.80	
		For Hot Dip Galvanizing, Add		2,347.82	
		For >10 To 25 Tons, Deduct		-712.73	
		For >25 To 50 Tons, Deduct		-1,467.39	
		For >50 To 75 Tons, Deduct		-2,096.27	
		For >75 Tons, Deduct		-1,048.13	
05 12 23 00-0074	TON	16" x 12", 8", 4" Weight Range 40-90 Lb./LF Structural Tubing - Rectangle	.....	11,131.29	2,656.90
		For ASTM A242 Type 2 High Strength Steel, Add		663.78	
		For Hot Dip Galvanizing, Add		2,323.23	
		For >10 To 25 Tons, Deduct		-705.27	
		For >25 To 50 Tons, Deduct		-1,452.02	
		For >50 To 75 Tons, Deduct		-2,074.32	
		For >75 Tons, Deduct		-1,037.16	
05 12 23 00-0075	TON	18" x 6", 4" Weight Range 48-76 Lb./LF Structural Tubing - Rectangle	.....	12,543.14	4,186.35
		For ASTM A242 Type 2 High Strength Steel, Add		646.22	
		For Hot Dip Galvanizing, Add		2,261.77	
		For >10 To 25 Tons, Deduct		-686.61	
		For >25 To 50 Tons, Deduct		-1,413.61	
		For >50 To 75 Tons, Deduct		-2,019.44	
		For >75 Tons, Deduct		-1,009.72	
05 12 23 00-0076	TON	20" x 12", 8", 4" Weight Range 48-105 Lb./LF Structural Tubing - Rectangle	.....	14,233.08	6,112.60
		For ASTM A242 Type 2 High Strength Steel, Add		617.05	
		For Hot Dip Galvanizing, Add		2,159.66	
		For >10 To 25 Tons, Deduct		-655.61	
		For >25 To 50 Tons, Deduct		-1,349.79	
		For >50 To 75 Tons, Deduct		-1,928.27	
		For >75 Tons, Deduct		-964.14	
05 12 23 00-0077	Square Structural Tubing (05 12 23 00-0063)				
05 12 23 00-0078	TON	2" x 2" Weight Range 4-6 Lb./LF Structural Tubing - Square	.....	11,506.58	498.17
		For ASTM A242 Type 2 High Strength Steel, Add		878.02	
		For Hot Dip Galvanizing, Add		3,073.06	
		For >10 To 25 Tons, Deduct		-932.89	
		For >25 To 50 Tons, Deduct		-1,920.66	
		For >50 To 75 Tons, Deduct		-2,743.80	
		For >75 Tons, Deduct		-1,371.90	
05 12 23 00-0079	TON	2.5" x 2.5" Weight Range 5-8 Lb./LF Structural Tubing - Square	.....	11,542.00	531.38
		For ASTM A242 Type 2 High Strength Steel, Add		878.02	
		For Hot Dip Galvanizing, Add		3,073.06	
		For >10 To 25 Tons, Deduct		-932.89	
		For >25 To 50 Tons, Deduct		-1,920.66	
		For >50 To 75 Tons, Deduct		-2,743.80	
		For >75 Tons, Deduct		-1,371.90	
05 12 23 00-0080	TON	3" x 3" Weight Range 6-11 Lb./LF Structural Tubing - Square	.....	10,366.69	664.23
		For ASTM A242 Type 2 High Strength Steel, Add		772.65	
		For Hot Dip Galvanizing, Add		2,704.29	
		For >10 To 25 Tons, Deduct		-820.95	
		For >25 To 50 Tons, Deduct		-1,690.18	
		For >50 To 75 Tons, Deduct		-2,414.55	
		For >75 Tons, Deduct		-1,207.27	
05 12 23 00-0081	TON	3.5" x 3.5" Weight Range 8-13 Lb./LF Structural Tubing - Square	.....	10,288.89	797.08
		For ASTM A242 Type 2 High Strength Steel, Add		755.09	
		For Hot Dip Galvanizing, Add		2,642.83	
		For >10 To 25 Tons, Deduct		-802.29	
		For >25 To 50 Tons, Deduct		-1,651.77	
		For >50 To 75 Tons, Deduct		-2,359.67	
		For >75 Tons, Deduct		-1,179.84	
05 12 23 00-0082	TON	4" x 4" Weight Range 10-22 Lb./LF Structural Tubing - Square	.....	8,262.49	996.33
		For ASTM A242 Type 2 High Strength Steel, Add		575.98	
		For Hot Dip Galvanizing, Add		2,015.92	
		For >10 To 25 Tons, Deduct		-611.98	
		For >25 To 50 Tons, Deduct		-1,259.95	
		For >50 To 75 Tons, Deduct		-1,799.93	
		For >75 Tons, Deduct		-899.97	
05 12 23 00-0083	TON	5" x 5" Weight Range 12-30 Lb./LF Structural Tubing - Square	.....	8,414.31	1,138.62
		For ASTM A242 Type 2 High Strength Steel, Add		575.98	
		For Hot Dip Galvanizing, Add		2,015.92	
		For >10 To 25 Tons, Deduct		-611.98	
		For >25 To 50 Tons, Deduct		-1,259.95	
		For >50 To 75 Tons, Deduct		-1,799.93	
		For >75 Tons, Deduct		-899.97	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0084 TON 6" x 6" Weight Range 15-35 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,900.15 575.98 2,015.92 -611.98 -1,259.95 -1,799.93 -899.97	1,594.14
05 12 23 00-0085 TON 7" x 7" Weight Range 17-42 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	9,456.97 586.52 2,052.80 -623.17 -1,283.00 -1,832.86 -916.43	1,992.68
05 12 23 00-0086 TON 8" x 8" Weight Range 20-60 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	11,350.79 681.34 2,384.69 -723.92 -1,490.43 -2,129.19 -1,064.60	2,656.90
05 12 23 00-0087 TON 10" x 10" Weight Range 33-77 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,767.80 681.34 2,384.69 -723.92 -1,490.43 -2,129.19 -1,064.60	3,985.36
05 12 23 00-0088 TON 12" x 12" Weight Range 40-80 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,320.93 586.52 2,052.80 -623.17 -1,283.00 -1,832.86 -916.43	4,677.61
05 12 23 00-0089 TON 14" x 14" Weight Range 57-90 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	14,861.16 667.29 2,335.52 -709.00 -1,459.70 -2,085.29 -1,042.65	6,112.60
05 12 23 00-0090 TON 16" x 16" Weight Range 65-105 Lb./LF Structural Tubing - Square..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	17,018.85 681.34 2,384.69 -723.92 -1,490.43 -2,129.19 -1,064.60	7,970.71
05 12 23 00-0091 Galvanized Steel Pipe Tubing (05 12 23 00-0063) Note: ASTM A53 Grade B		
05 12 23 00-0092 LF 2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	43.54	5.86
05 12 23 00-0093 LF 2-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	47.96	6.97
05 12 23 00-0094 LF 3" Diameter Galvanized Steel Pipe Tubing, Standard Weight	53.64	9.26
05 12 23 00-0095 LF 3-1/2" Diameter Galvanized Steel Pipe Tubing, Standard Weight	57.95	10.32
05 12 23 00-0096 LF 4" Diameter Galvanized Steel Pipe Tubing, Standard Weight	60.71	11.16
05 12 23 00-0097 LF 5" Diameter Galvanized Steel Pipe Tubing, Standard Weight	68.49	13.94
05 12 23 00-0098 LF 6" Diameter Galvanized Steel Pipe Tubing, Standard Weight	76.26	16.72
05 12 23 00-0099 LF 8" Diameter Galvanized Steel Pipe Tubing, Standard Weight	84.05	20.08
05 12 23 00-0100 LF 10" Diameter Galvanized Steel Pipe Tubing, Standard Weight	95.17	24.54
05 12 23 00-0101 LF 12" Diameter Galvanized Steel Pipe Tubing, Standard Weight	112.98	31.23
05 12 23 00-0102 Structural Shapes (05 12 23 00-0048)		
05 12 23 00-0103 TON Up To 20 Lb./LF Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts..... For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >20 To 50 Lb./LF, Deduct For >50 To 75 Lb./LF, Deduct For >75 To 100 Lb./LF, Deduct For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	8,315.47 300.35 1,051.24 -1,059.60 -1,703.42 -2,347.25 -319.13 -657.03 -938.61 -469.30	2,873.45
05 12 23 00-0104 TON Structural Shapes, Steel Plate A36 Structural Steel	8,552.71	1,149.39
Note: Up to 21.5 Lb. per SF For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add For >21.5 To 50 Lb./LF, Deduct For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	561.94 1,966.80 -931.69 -597.06 -1,229.25 -1,756.07 -878.04	
05 12 23 00-0105 LB Up To 20 Lb./LF Structural Shapes, Primed Pipe Supports.....	4.98	0.26



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0106 LB Structural Shapes, Galvanized Pipe Supports.....	6.08	0.26
05 12 23 00-0107 Built-Up Trusses (05 12 23 00-0048)		
05 12 23 00-0108 TON Up To 50 LF Span Average Weight 100 Lb./LF Trusses, Built-up	9,358.92	398.54
For >10 To 25 Tons, Deduct	-759.37	
For >25 To 50 Tons, Deduct	-1,563.42	
For >50 To 75 Tons, Deduct	-2,233.46	
For >75 Tons, Deduct	-1,116.73	
05 12 23 00-0109 TON >50-100 LF Span Average Weight 120 Lb./LF Trusses, Built-up.....	9,257.79	221.32
For >10 To 25 Tons, Deduct	-766.84	
For >25 To 50 Tons, Deduct	-1,578.78	
For >50 To 75 Tons, Deduct	-2,255.41	
For >75 Tons, Deduct	-1,127.70	
05 12 23 00-0110 TON >100-200 LF Span Average Weight 150 Lb./LF Trusses, Built-up.....	8,246.68	117.17
For >10 To 25 Tons, Deduct	-690.34	
For >25 To 50 Tons, Deduct	-1,421.29	
For >50 To 75 Tons, Deduct	-2,030.41	
For >75 Tons, Deduct	-1,015.21	
05 12 23 00-0111 TON >200 LF Span Average Weight 180 Lb./LF Trusses, Built-up.....	8,020.24	110.79
For >10 To 25 Tons, Deduct	-671.68	
For >25 To 50 Tons, Deduct	-1,382.88	
For >50 To 75 Tons, Deduct	-1,975.54	
For >75 Tons, Deduct	-987.77	
05 12 23 00-0112 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0048)		
Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0113 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	31.07	8.28
05 12 23 00-0114 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	46.61	12.37
05 12 23 00-0115 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	62.14	16.50
05 12 23 00-0116 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	77.68	20.63
05 12 23 00-0117 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	93.21	24.63
05 12 23 00-0118 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	108.75	28.87
05 12 23 00-0119 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	124.28	33.00
05 12 23 00-0120 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	139.82	37.12
05 12 23 00-0121 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	155.36	41.25
05 12 23 00-0122 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	170.89	45.38
05 12 23 00-0123 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	186.43	49.50
05 12 23 00-0124 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	201.96	53.62
05 12 23 00-0125 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	217.50	57.75
05 12 23 00-0126 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	233.04	61.87
05 12 23 00-0127 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps.....	248.57	66.00
05 12 23 00-0128 Accessories For Steel (05 12 23)		
05 12 23 00-0129 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0128)		
05 12 23 00-0130 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.45	
05 12 23 00-0131 Connection And Stiffener Plates (05 12 23 00-0128)		
Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0132 TON 1/8" Plate Weight 6.16 Lb./SF Connection And Stiffener Plates.....	20,278.40	
For >10 To 25 Tons, Deduct	-1,723.66	
For >25 To 50 Tons, Deduct	-3,548.72	
For >50 To 75 Tons, Deduct	-5,069.60	
For >75 Tons, Deduct	-2,534.80	
05 12 23 00-0133 TON 3/16" Plate Weight 8.71 Lb./SF Connection And Stiffener Plates.....	17,301.45	
For >10 To 25 Tons, Deduct	-1,470.62	
For >25 To 50 Tons, Deduct	-3,027.75	
For >50 To 75 Tons, Deduct	-4,325.36	
For >75 Tons, Deduct	-2,162.68	
05 12 23 00-0134 TON 1/4" Plate Weight 11.26 Lb./SF Connection And Stiffener Plates.....	13,379.56	
For >10 To 25 Tons, Deduct	-1,137.26	
For >25 To 50 Tons, Deduct	-2,341.42	
For >50 To 75 Tons, Deduct	-3,344.89	
For >75 Tons, Deduct	-1,672.45	
05 12 23 00-0135 TON 5/16" Plate Weight 13.81 Lb./SF Connection And Stiffener Plates.....	13,379.56	
For >10 To 25 Tons, Deduct	-1,137.26	
For >25 To 50 Tons, Deduct	-2,341.42	
For >50 To 75 Tons, Deduct	-3,344.89	
For >75 Tons, Deduct	-1,672.45	
05 12 23 00-0136 TON 3/8" Plate Weight 16.37 Lb./SF Connection And Stiffener Plates.....	13,379.56	
For >10 To 25 Tons, Deduct	-1,137.26	
For >25 To 50 Tons, Deduct	-2,341.42	
For >50 To 75 Tons, Deduct	-3,344.89	
For >75 Tons, Deduct	-1,672.45	
05 12 23 00-0137 TON 1/2" Plate Weight 21.47 Lb./SF Connection And Stiffener Plates.....	13,379.56	
For >10 To 25 Tons, Deduct	-1,137.26	
For >25 To 50 Tons, Deduct	-2,341.42	
For >50 To 75 Tons, Deduct	-3,344.89	
For >75 Tons, Deduct	-1,672.45	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0138 TON 9/16" Plate Weight 24.02 Lb./SF Connection And Stiffener Plates For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	13,379.56 -1,137.26 -2,341.42 -3,344.89 -1,672.45	
05 12 23 00-0139 TON 5/8" Plate Weight 26.58 Lb./SF Connection And Stiffener Plates For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	13,379.56 -1,137.26 -2,341.42 -3,344.89 -1,672.45	
05 12 23 00-0140 TON 3/4" Plate Weight 31.68 Lb./SF Connection And Stiffener Plates For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,543.34 -1,066.18 -2,195.08 -3,135.84 -1,567.92	
05 12 23 00-0141 TON 7/8" Plate Weight 36.78 Lb./SF Connection And Stiffener Plates For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,543.34 -1,066.18 -2,195.08 -3,135.84 -1,567.92	
05 12 23 00-0142 TON 1" Plate Weight 41.89 Lb./SF Connection And Stiffener Plates For >10 To 25 Tons, Deduct For >25 To 50 Tons, Deduct For >50 To 75 Tons, Deduct For >75 Tons, Deduct	12,543.34 -1,066.18 -2,195.08 -3,135.84 -1,567.92	
05 12 23 00-0143 Field Applied Cold Galvanizing (05 12 23 00-0128)		
05 12 23 00-0144 SF Brush Applied Cold Galvanizing		2.16
05 12 23 00-0145 Metal Grinding (05 12 23 00-0128) Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0146 SI Metal Grinding Up To 1/32" Thickness To Be Removed..... Note: Includes rust or scale removal on metal and smoothing surface.		1.21
05 12 23 00-0147 Structural Steel For Buildings And Structures (05 12 23) Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0148 First Tier A992/A36 Structural Steel Columns, W Shapes (05 12 23 00-0147) Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0149 LF W14 x 730 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,496.51 391.71 134.69 299.30	79.70
05 12 23 00-0150 LF W14 x 665 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,365.05 356.83 122.85 273.01	74.29
05 12 23 00-0151 LF W14 x 605 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,243.57 324.63 111.92 248.71	69.15
05 12 23 00-0152 LF W14 x 550 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,132.07 295.12 101.89 226.41	64.31
05 12 23 00-0153 LF W14 x 500 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	1,040.54 268.29 93.65 208.11	69.08
05 12 23 00-0154 LF W14 x 426 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	887.99 228.59 79.92 177.60	60.32
05 12 23 00-0155 LF W14 x 342 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	718.57 183.97 64.67 143.71	52.21
05 12 23 00-0156 LF W14 x 311 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	647.47 165.23 58.27 129.49	48.75
05 12 23 00-0157 LF W14 x 283 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	587.94 149.56 52.91 117.59	45.96
05 12 23 00-0158 LF W14 x 257 A992/A36 Structural Column For Hot Dip Galvanizing, Add For High Strength Low Alloy A572-50 Steel, Add For High Strength Low Alloy A588 Grade B Steel, Add	517.26 130.65 46.55 103.45	43.57



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

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 12 23 00-0159	LF	W14 x 233 A992/A36 Structural Column	476.08	40.51
		For Hot Dip Galvanizing, Add	120.13	
		For High Strength Low Alloy A572-50 Steel, Add	42.85	
		For High Strength Low Alloy A588 Grade B Steel, Add	95.22	
05 12 23 00-0160	LF	W14 x 211 A992/A36 Structural Column	423.72	37.73
		For Hot Dip Galvanizing, Add	106.41	
		For High Strength Low Alloy A572-50 Steel, Add	38.13	
		For High Strength Low Alloy A588 Grade B Steel, Add	84.74	
05 12 23 00-0161	LF	W14 x 193 A992/A36 Structural Column	383.51	35.87
		For Hot Dip Galvanizing, Add	95.80	
		For High Strength Low Alloy A572-50 Steel, Add	34.52	
		For High Strength Low Alloy A588 Grade B Steel, Add	76.70	
05 12 23 00-0162	LF	W14 x 176 A992/A36 Structural Column	345.94	34.28
		For Hot Dip Galvanizing, Add	85.86	
		For High Strength Low Alloy A572-50 Steel, Add	31.13	
		For High Strength Low Alloy A588 Grade B Steel, Add	69.19	
05 12 23 00-0163	LF	W14 x 159 A992/A36 Structural Column	313.09	33.08
		For Hot Dip Galvanizing, Add	77.11	
		For High Strength Low Alloy A572-50 Steel, Add	28.18	
		For High Strength Low Alloy A588 Grade B Steel, Add	62.62	
05 12 23 00-0164	LF	W14 x 145 A992/A36 Structural Column	302.60	32.02
		For Hot Dip Galvanizing, Add	74.49	
		For High Strength Low Alloy A572-50 Steel, Add	27.23	
		For High Strength Low Alloy A588 Grade B Steel, Add	60.52	
05 12 23 00-0165	LF	W14 x 132 A992/A36 Structural Column	259.24	30.55
		For Hot Dip Galvanizing, Add	62.91	
		For High Strength Low Alloy A572-50 Steel, Add	23.33	
		For High Strength Low Alloy A588 Grade B Steel, Add	51.85	
05 12 23 00-0166	LF	W14 x 120 A992/A36 Structural Column	243.24	29.75
		For Hot Dip Galvanizing, Add	58.69	
		For High Strength Low Alloy A572-50 Steel, Add	21.89	
		For High Strength Low Alloy A588 Grade B Steel, Add	48.65	
05 12 23 00-0167	LF	W14 x 109 A992/A36 Structural Column	218.08	28.56
		For Hot Dip Galvanizing, Add	52.08	
		For High Strength Low Alloy A572-50 Steel, Add	19.63	
		For High Strength Low Alloy A588 Grade B Steel, Add	43.62	
05 12 23 00-0168	LF	W14 x 99 A992/A36 Structural Column	199.23	27.77
		For Hot Dip Galvanizing, Add	47.10	
		For High Strength Low Alloy A572-50 Steel, Add	17.93	
		For High Strength Low Alloy A588 Grade B Steel, Add	39.85	
05 12 23 00-0169	LF	W14 x 90 A992/A36 Structural Column	185.29	27.10
		For Hot Dip Galvanizing, Add	43.42	
		For High Strength Low Alloy A572-50 Steel, Add	16.68	
		For High Strength Low Alloy A588 Grade B Steel, Add	37.06	
05 12 23 00-0170	LF	W14 x 82 A992/A36 Structural Column	170.89	26.30
		For Hot Dip Galvanizing, Add	39.64	
		For High Strength Low Alloy A572-50 Steel, Add	15.38	
		For High Strength Low Alloy A588 Grade B Steel, Add	34.18	
05 12 23 00-0171	LF	W14 x 74 A992/A36 Structural Column	154.57	25.64
		For Hot Dip Galvanizing, Add	35.34	
		For High Strength Low Alloy A572-50 Steel, Add	13.91	
		For High Strength Low Alloy A588 Grade B Steel, Add	30.91	
05 12 23 00-0172	LF	W14 x 68 A992/A36 Structural Column	144.58	25.24
		For Hot Dip Galvanizing, Add	32.67	
		For High Strength Low Alloy A572-50 Steel, Add	13.01	
		For High Strength Low Alloy A588 Grade B Steel, Add	28.92	
05 12 23 00-0173	LF	W14 x 61 A992/A36 Structural Column	132.08	24.58
		For Hot Dip Galvanizing, Add	29.39	
		For High Strength Low Alloy A572-50 Steel, Add	11.89	
		For High Strength Low Alloy A588 Grade B Steel, Add	26.42	
05 12 23 00-0174	LF	W14 x 53 A992/A36 Structural Column	120.54	23.91
		For Hot Dip Galvanizing, Add	26.37	
		For High Strength Low Alloy A572-50 Steel, Add	10.85	
		For High Strength Low Alloy A588 Grade B Steel, Add	24.11	
05 12 23 00-0175	LF	W14 x 48 A992/A36 Structural Column	113.10	23.52
		For Hot Dip Galvanizing, Add	24.42	
		For High Strength Low Alloy A572-50 Steel, Add	10.18	
		For High Strength Low Alloy A588 Grade B Steel, Add	22.62	
05 12 23 00-0176	LF	W14 x 43 A992/A36 Structural Column	102.33	23.11
		For Hot Dip Galvanizing, Add	21.58	
		For High Strength Low Alloy A572-50 Steel, Add	9.21	
		For High Strength Low Alloy A588 Grade B Steel, Add	20.47	
05 12 23 00-0177	LF	W12 x 336 A992/A36 Structural Column	682.31	35.49
		For Hot Dip Galvanizing, Add	178.84	
		For High Strength Low Alloy A572-50 Steel, Add	61.41	
		For High Strength Low Alloy A588 Grade B Steel, Add	136.46	
05 12 23 00-0178	LF	W12 x 305 A992/A36 Structural Column	622.10	34.79
		For Hot Dip Galvanizing, Add	162.34	
		For High Strength Low Alloy A572-50 Steel, Add	55.99	
		For High Strength Low Alloy A588 Grade B Steel, Add	124.42	
05 12 23 00-0179	LF	W12 x 279 A992/A36 Structural Column	571.77	34.37
		For Hot Dip Galvanizing, Add	148.50	
		For High Strength Low Alloy A572-50 Steel, Add	51.46	
		For High Strength Low Alloy A588 Grade B Steel, Add	114.35	

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

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0180	LF	W12 x 252 A992/A36 Structural Column	519.07		33.51
		For Hot Dip Galvanizing, Add	134.13		
		For High Strength Low Alloy A572-50 Steel, Add	46.72		
		For High Strength Low Alloy A588 Grade B Steel, Add	103.81		
05 12 23 00-0181	LF	W12 x 230 A992/A36 Structural Column	476.37		33.03
		For Hot Dip Galvanizing, Add	122.42		
		For High Strength Low Alloy A572-50 Steel, Add	42.87		
		For High Strength Low Alloy A588 Grade B Steel, Add	95.27		
05 12 23 00-0182	LF	W12 x 210 A992/A36 Structural Column	437.51		32.56
		For Hot Dip Galvanizing, Add	111.78		
		For High Strength Low Alloy A572-50 Steel, Add	39.38		
		For High Strength Low Alloy A588 Grade B Steel, Add	87.50		
05 12 23 00-0183	LF	W12 x 190 A992/A36 Structural Column	403.62		36.67
		For Hot Dip Galvanizing, Add	101.13		
		For High Strength Low Alloy A572-50 Steel, Add	36.33		
		For High Strength Low Alloy A588 Grade B Steel, Add	80.72		
05 12 23 00-0184	LF	W12 x 170 A992/A36 Structural Column	365.08		35.60
		For Hot Dip Galvanizing, Add	90.80		
		For High Strength Low Alloy A572-50 Steel, Add	32.86		
		For High Strength Low Alloy A588 Grade B Steel, Add	73.02		
05 12 23 00-0185	LF	W12 x 152 A992/A36 Structural Column	329.25		33.08
		For Hot Dip Galvanizing, Add	81.60		
		For High Strength Low Alloy A572-50 Steel, Add	29.63		
		For High Strength Low Alloy A588 Grade B Steel, Add	65.85		
05 12 23 00-0186	LF	W12 x 136 A992/A36 Structural Column	313.12		32.15
		For Hot Dip Galvanizing, Add	77.38		
		For High Strength Low Alloy A572-50 Steel, Add	28.18		
		For High Strength Low Alloy A588 Grade B Steel, Add	62.62		
05 12 23 00-0187	LF	W12 x 120 A992/A36 Structural Column	237.83		29.49
		For Hot Dip Galvanizing, Add	57.22		
		For High Strength Low Alloy A572-50 Steel, Add	21.40		
		For High Strength Low Alloy A588 Grade B Steel, Add	47.57		
05 12 23 00-0188	LF	W12 x 106 A992/A36 Structural Column	219.36		28.56
		For Hot Dip Galvanizing, Add	52.43		
		For High Strength Low Alloy A572-50 Steel, Add	19.74		
		For High Strength Low Alloy A588 Grade B Steel, Add	43.87		
05 12 23 00-0189	LF	W12 x 96 A992/A36 Structural Column	196.54		27.64
		For Hot Dip Galvanizing, Add	46.39		
		For High Strength Low Alloy A572-50 Steel, Add	17.69		
		For High Strength Low Alloy A588 Grade B Steel, Add	39.31		
05 12 23 00-0190	LF	W12 x 87 A992/A36 Structural Column	181.51		26.71
		For Hot Dip Galvanizing, Add	42.44		
		For High Strength Low Alloy A572-50 Steel, Add	16.34		
		For High Strength Low Alloy A588 Grade B Steel, Add	36.30		
05 12 23 00-0191	LF	W12 x 79 A992/A36 Structural Column	159.62		25.91
		For Hot Dip Galvanizing, Add	36.62		
		For High Strength Low Alloy A572-50 Steel, Add	14.37		
		For High Strength Low Alloy A588 Grade B Steel, Add	31.92		
05 12 23 00-0192	LF	W12 x 72 A992/A36 Structural Column	146.31		25.24
		For Hot Dip Galvanizing, Add	33.12		
		For High Strength Low Alloy A572-50 Steel, Add	13.17		
		For High Strength Low Alloy A588 Grade B Steel, Add	29.26		
05 12 23 00-0193	LF	W12 x 65 A992/A36 Structural Column	133.97		24.71
		For Hot Dip Galvanizing, Add	29.88		
		For High Strength Low Alloy A572-50 Steel, Add	12.06		
		For High Strength Low Alloy A588 Grade B Steel, Add	26.79		
05 12 23 00-0194	LF	W12 x 58 A992/A36 Structural Column	129.71		24.45
		For Hot Dip Galvanizing, Add	28.77		
		For High Strength Low Alloy A572-50 Steel, Add	11.67		
		For High Strength Low Alloy A588 Grade B Steel, Add	25.94		
05 12 23 00-0195	LF	W12 x 53 A992/A36 Structural Column	120.54		23.91
		For Hot Dip Galvanizing, Add	26.37		
		For High Strength Low Alloy A572-50 Steel, Add	10.85		
		For High Strength Low Alloy A588 Grade B Steel, Add	24.11		
05 12 23 00-0196	LF	W12 x 50 A992/A36 Structural Column	116.89		23.78
		For Hot Dip Galvanizing, Add	25.39		
		For High Strength Low Alloy A572-50 Steel, Add	10.52		
		For High Strength Low Alloy A588 Grade B Steel, Add	23.38		
05 12 23 00-0197	LF	W12 x 45 A992/A36 Structural Column	106.43		23.24
		For Hot Dip Galvanizing, Add	22.64		
		For High Strength Low Alloy A572-50 Steel, Add	9.58		
		For High Strength Low Alloy A588 Grade B Steel, Add	21.29		
05 12 23 00-0198	LF	W12 x 40 A992/A36 Structural Column	95.67		22.72
		For Hot Dip Galvanizing, Add	19.80		
		For High Strength Low Alloy A572-50 Steel, Add	8.61		
		For High Strength Low Alloy A588 Grade B Steel, Add	19.13		
05 12 23 00-0199	LF	W10 x 112 A992/A36 Structural Column	229.33		29.09
		For Hot Dip Galvanizing, Add	55.05		
		For High Strength Low Alloy A572-50 Steel, Add	20.64		
		For High Strength Low Alloy A588 Grade B Steel, Add	45.87		
05 12 23 00-0200	LF	W10 x 110 A992/A36 Structural Column	207.66		27.90
		For Hot Dip Galvanizing, Add	49.37		
		For High Strength Low Alloy A572-50 Steel, Add	18.69		
		For High Strength Low Alloy A588 Grade B Steel, Add	41.53		



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 12 23 00-0201	LF W10 x 88 A992/A36 Structural Column	186.92		26.97
	For Hot Dip Galvanizing, Add	43.91		
	For High Strength Low Alloy A572-50 Steel, Add	16.82		
	For High Strength Low Alloy A588 Grade B Steel, Add	37.38		
05 12 23 00-0202	LF W10 x 77 A992/A36 Structural Column	166.50		25.91
	For Hot Dip Galvanizing, Add	38.53		
	For High Strength Low Alloy A572-50 Steel, Add	14.99		
	For High Strength Low Alloy A588 Grade B Steel, Add	33.30		
05 12 23 00-0203	LF W10 x 68 A992/A36 Structural Column	150.18		25.24
	For Hot Dip Galvanizing, Add	34.23		
	For High Strength Low Alloy A572-50 Steel, Add	13.52		
	For High Strength Low Alloy A588 Grade B Steel, Add	30.04		
05 12 23 00-0204	LF W10 x 60 A992/A36 Structural Column	132.08		24.58
	For Hot Dip Galvanizing, Add	29.39		
	For High Strength Low Alloy A572-50 Steel, Add	11.89		
	For High Strength Low Alloy A588 Grade B Steel, Add	26.42		
05 12 23 00-0205	LF W10 x 54 A992/A36 Structural Column	131.18		24.17
	For Hot Dip Galvanizing, Add	29.21		
	For High Strength Low Alloy A572-50 Steel, Add	11.81		
	For High Strength Low Alloy A588 Grade B Steel, Add	26.24		
05 12 23 00-0206	LF W10 x 49 A992/A36 Structural Column	115.47		23.78
	For Hot Dip Galvanizing, Add	25.04		
	For High Strength Low Alloy A572-50 Steel, Add	10.39		
	For High Strength Low Alloy A588 Grade B Steel, Add	23.09		
05 12 23 00-0207	LF W10 x 45 A992/A36 Structural Column	111.52		23.38
	For Hot Dip Galvanizing, Add	24.02		
	For High Strength Low Alloy A572-50 Steel, Add	10.04		
	For High Strength Low Alloy A588 Grade B Steel, Add	22.30		
05 12 23 00-0208	LF W10 x 39 A992/A36 Structural Column	97.40		22.98
	For Hot Dip Galvanizing, Add	20.24		
	For High Strength Low Alloy A572-50 Steel, Add	8.77		
	For High Strength Low Alloy A588 Grade B Steel, Add	19.48		
05 12 23 00-0209	LF W10 x 33 A992/A36 Structural Column	85.21		22.32
	For Hot Dip Galvanizing, Add	17.05		
	For High Strength Low Alloy A572-50 Steel, Add	7.67		
	For High Strength Low Alloy A588 Grade B Steel, Add	17.04		
05 12 23 00-0210	LF W8 x 67 A992/A36 Structural Column	144.75		25.24
	For Hot Dip Galvanizing, Add	32.72		
	For High Strength Low Alloy A572-50 Steel, Add	13.03		
	For High Strength Low Alloy A588 Grade B Steel, Add	28.95		
05 12 23 00-0211	LF W8 x 58 A992/A36 Structural Column	130.19		24.45
	For Hot Dip Galvanizing, Add	28.90		
	For High Strength Low Alloy A572-50 Steel, Add	11.72		
	For High Strength Low Alloy A588 Grade B Steel, Add	26.04		
05 12 23 00-0212	LF W8 x 48 A992/A36 Structural Column	116.75		23.78
	For Hot Dip Galvanizing, Add	25.39		
	For High Strength Low Alloy A572-50 Steel, Add	10.51		
	For High Strength Low Alloy A588 Grade B Steel, Add	23.35		
05 12 23 00-0213	LF W8 x 40 A992/A36 Structural Column	100.57		23.11
	For Hot Dip Galvanizing, Add	21.09		
	For High Strength Low Alloy A572-50 Steel, Add	9.05		
	For High Strength Low Alloy A588 Grade B Steel, Add	20.11		
05 12 23 00-0214	LF W8 x 35 A992/A36 Structural Column	91.07		22.59
	For Hot Dip Galvanizing, Add	18.60		
	For High Strength Low Alloy A572-50 Steel, Add	8.20		
	For High Strength Low Alloy A588 Grade B Steel, Add	18.21		
05 12 23 00-0215	LF W8 x 31 A992/A36 Structural Column	83.45		22.32
	For Hot Dip Galvanizing, Add	16.56		
	For High Strength Low Alloy A572-50 Steel, Add	7.51		
	For High Strength Low Alloy A588 Grade B Steel, Add	16.69		
05 12 23 00-0216	LF W8 x 28 A992/A36 Structural Column	78.71		22.05
	For Hot Dip Galvanizing, Add	15.32		
	For High Strength Low Alloy A572-50 Steel, Add	7.08		
	For High Strength Low Alloy A588 Grade B Steel, Add	15.74		
05 12 23 00-0217	LF W8 x 24 A992/A36 Structural Column	73.00		21.79
	For Hot Dip Galvanizing, Add	13.81		
	For High Strength Low Alloy A572-50 Steel, Add	6.57		
	For High Strength Low Alloy A588 Grade B Steel, Add	14.60		
05 12 23 00-0218	LF W8 x 21 A992/A36 Structural Column	69.21		21.65
	For Hot Dip Galvanizing, Add	12.83		
	For High Strength Low Alloy A572-50 Steel, Add	6.23		
	For High Strength Low Alloy A588 Grade B Steel, Add	13.84		
05 12 23 00-0219	LF W8 x 18 A992/A36 Structural Column	62.07		21.26
	For Hot Dip Galvanizing, Add	10.92		
	For High Strength Low Alloy A572-50 Steel, Add	5.59		
	For High Strength Low Alloy A588 Grade B Steel, Add	12.41		
05 12 23 00-0220	LF W6 x 25 A992/A36 Structural Column	76.52		21.79
	For Hot Dip Galvanizing, Add	14.78		
	For High Strength Low Alloy A572-50 Steel, Add	6.89		
	For High Strength Low Alloy A588 Grade B Steel, Add	15.30		
05 12 23 00-0221	LF W6 x 20 A992/A36 Structural Column	65.08		21.39
	For Hot Dip Galvanizing, Add	11.72		
	For High Strength Low Alloy A572-50 Steel, Add	5.86		
	For High Strength Low Alloy A588 Grade B Steel, Add	13.02		

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0222	LF	W6 x 15 A992/A36 Structural Column	56.11	20.72
		For Hot Dip Galvanizing, Add	9.41	
		For High Strength Low Alloy A572-50 Steel, Add	5.05	
		For High Strength Low Alloy A588 Grade B Steel, Add	11.22	
05 12 23 00-0223	LF	W6 x 12 A992/A36 Structural Column	52.75	20.72
		For Hot Dip Galvanizing, Add	8.48	
		For High Strength Low Alloy A572-50 Steel, Add	4.75	
		For High Strength Low Alloy A588 Grade B Steel, Add	10.55	
05 12 23 00-0224	LF	W6 x 9 A992/A36 Structural Column	48.45	20.59
		For Hot Dip Galvanizing, Add	7.33	
		For High Strength Low Alloy A572-50 Steel, Add	4.36	
		For High Strength Low Alloy A588 Grade B Steel, Add	9.69	
05 12 23 00-0225	LF	W5 x 19 A992/A36 Structural Column	64.12	21.39
		For Hot Dip Galvanizing, Add	11.45	
		For High Strength Low Alloy A572-50 Steel, Add	5.77	
		For High Strength Low Alloy A588 Grade B Steel, Add	12.82	
05 12 23 00-0226	LF	W5 x 16 A992/A36 Structural Column	59.23	21.26
		For Hot Dip Galvanizing, Add	10.17	
		For High Strength Low Alloy A572-50 Steel, Add	5.33	
		For High Strength Low Alloy A588 Grade B Steel, Add	11.85	
05 12 23 00-0227	LF	W4 x 13 A992/A36 Structural Column	55.60	20.99
		For Hot Dip Galvanizing, Add	9.24	
		For High Strength Low Alloy A572-50 Steel, Add	5.00	
		For High Strength Low Alloy A588 Grade B Steel, Add	11.12	
05 12 23 00-0228		A992/A36 Structural Steel Beams And Girders, W Shapes (05 12 23 00-0147)		
		Note: Includes material delivery and erection.		
05 12 23 00-0229	LF	W36 x 300 A992/A36 Structural Beam Or Girder	547.33	87.29
		For Hot Dip Galvanizing, Add	126.05	
		For High Strength Low Alloy A572-50 Steel, Add	49.26	
		For High Strength Low Alloy A588 Steel, Add	109.47	
		For Each Additional Top Copes >2, Add	4.54	
		For Structural Tees, WT, MT Or ST, Deduct	-177.60	
		For Skewed Or Sloped Connections, Add	65.68	
05 12 23 00-0230	LF	W36 x 280 A992/A36 Structural Beam Or Girder	530.22	99.63
		For Hot Dip Galvanizing, Add	117.64	
		For High Strength Low Alloy A572-50 Steel, Add	47.72	
		For High Strength Low Alloy A588 Steel, Add	106.04	
		For Each Additional Top Copes >2, Add	4.24	
		For Structural Tees, WT, MT Or ST, Deduct	-169.64	
		For Skewed Or Sloped Connections, Add	63.63	
05 12 23 00-0231	LF	W36 x 260 A992/A36 Structural Beam Or Girder	502.53	98.44
		For Hot Dip Galvanizing, Add	110.33	
		For High Strength Low Alloy A572-50 Steel, Add	45.23	
		For High Strength Low Alloy A588 Steel, Add	100.51	
		For Each Additional Top Copes >2, Add	3.98	
		For Structural Tees, WT, MT Or ST, Deduct	-160.14	
		For Skewed Or Sloped Connections, Add	60.30	
05 12 23 00-0232	LF	W36 x 240 A992/A36 Structural Beam Or Girder	467.31	84.12
		For Hot Dip Galvanizing, Add	104.78	
		For High Strength Low Alloy A572-50 Steel, Add	42.06	
		For High Strength Low Alloy A588 Steel, Add	93.46	
		For Each Additional Top Copes >2, Add	3.78	
		For Structural Tees, WT, MT Or ST, Deduct	-150.10	
		For Skewed Or Sloped Connections, Add	56.08	
05 12 23 00-0233	LF	W36 x 230 A992/A36 Structural Beam Or Girder	452.84	85.32
		For Hot Dip Galvanizing, Add	100.41	
		For High Strength Low Alloy A572-50 Steel, Add	40.76	
		For High Strength Low Alloy A588 Steel, Add	90.57	
		For Each Additional Top Copes >2, Add	3.62	
		For Structural Tees, WT, MT Or ST, Deduct	-144.85	
		For Skewed Or Sloped Connections, Add	54.34	
05 12 23 00-0234	LF	W36 x 210 A992/A36 Structural Beam Or Girder	432.00	95.25
		For Hot Dip Galvanizing, Add	91.68	
		For High Strength Low Alloy A572-50 Steel, Add	38.88	
		For High Strength Low Alloy A588 Steel, Add	86.40	
		For Each Additional Top Copes >2, Add	3.30	
		For Structural Tees, WT, MT Or ST, Deduct	-135.96	
		For Skewed Or Sloped Connections, Add	51.84	
05 12 23 00-0235	LF	W36 x 194 A992/A36 Structural Beam Or Girder	406.13	81.60
		For Hot Dip Galvanizing, Add	88.55	
		For High Strength Low Alloy A572-50 Steel, Add	36.55	
		For High Strength Low Alloy A588 Steel, Add	81.23	
		For Each Additional Top Copes >2, Add	3.19	
		For Structural Tees, WT, MT Or ST, Deduct	-129.09	
		For Skewed Or Sloped Connections, Add	48.74	
05 12 23 00-0236	LF	W36 x 182 A992/A36 Structural Beam Or Girder	385.76	81.00
		For Hot Dip Galvanizing, Add	83.07	
		For High Strength Low Alloy A572-50 Steel, Add	34.72	
		For High Strength Low Alloy A588 Steel, Add	77.15	
		For Each Additional Top Copes >2, Add	2.99	
		For Structural Tees, WT, MT Or ST, Deduct	-122.06	
		For Skewed Or Sloped Connections, Add	46.29	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0237	LF		W36 x 170 A992/A36 Structural Beam Or Girder	365.02	80.07
			For Hot Dip Galvanizing, Add	77.59	
			For High Strength Low Alloy A572-50 Steel, Add	32.85	
			For High Strength Low Alloy A588 Steel, Add	73.00	
			For Each Additional Top Copes >2, Add	2.80	
			For Structural Tees, WT, MT Or ST, Deduct	-114.95	
			For Skewed Or Sloped Connections, Add	43.80	
05 12 23 00-0238	LF		W36 x 160 A992/A36 Structural Beam Or Girder	361.48	92.19
			For Hot Dip Galvanizing, Add	73.03	
			For High Strength Low Alloy A572-50 Steel, Add	32.53	
			For High Strength Low Alloy A588 Steel, Add	72.30	
			For Each Additional Top Copes >2, Add	2.63	
			For Structural Tees, WT, MT Or ST, Deduct	-111.77	
			For Skewed Or Sloped Connections, Add	43.38	
05 12 23 00-0239	LF		W36 x 150 A992/A36 Structural Beam Or Girder	347.02	91.53
			For Hot Dip Galvanizing, Add	69.20	
			For High Strength Low Alloy A572-50 Steel, Add	31.23	
			For High Strength Low Alloy A588 Steel, Add	69.40	
			For Each Additional Top Copes >2, Add	2.49	
			For Structural Tees, WT, MT Or ST, Deduct	-106.81	
			For Skewed Or Sloped Connections, Add	41.64	
05 12 23 00-0240	LF		W36 x 135 A992/A36 Structural Beam Or Girder	326.81	90.74
			For Hot Dip Galvanizing, Add	63.85	
			For High Strength Low Alloy A572-50 Steel, Add	29.41	
			For High Strength Low Alloy A588 Steel, Add	65.36	
			For Each Additional Top Copes >2, Add	2.30	
			For Structural Tees, WT, MT Or ST, Deduct	-99.88	
			For Skewed Or Sloped Connections, Add	39.22	
05 12 23 00-0241	LF		W33 x 241 A992/A36 Structural Beam Or Girder	473.41	86.77
			For Hot Dip Galvanizing, Add	105.69	
			For High Strength Low Alloy A572-50 Steel, Add	42.61	
			For High Strength Low Alloy A588 Steel, Add	94.68	
			For Each Additional Top Copes >2, Add	3.81	
			For Structural Tees, WT, MT Or ST, Deduct	-151.81	
			For Skewed Or Sloped Connections, Add	56.81	
05 12 23 00-0242	LF		W33 x 221 A992/A36 Structural Beam Or Girder	439.55	84.64
			For Hot Dip Galvanizing, Add	96.92	
			For High Strength Low Alloy A572-50 Steel, Add	39.56	
			For High Strength Low Alloy A588 Steel, Add	87.91	
			For Each Additional Top Copes >2, Add	3.49	
			For Structural Tees, WT, MT Or ST, Deduct	-140.30	
			For Skewed Or Sloped Connections, Add	52.75	
05 12 23 00-0243	LF		W33 x 201 A992/A36 Structural Beam Or Girder	418.61	94.58
			For Hot Dip Galvanizing, Add	88.15	
			For High Strength Low Alloy A572-50 Steel, Add	37.67	
			For High Strength Low Alloy A588 Steel, Add	83.72	
			For Each Additional Top Copes >2, Add	3.18	
			For Structural Tees, WT, MT Or ST, Deduct	-131.37	
			For Skewed Or Sloped Connections, Add	50.23	
05 12 23 00-0244	LF		W33 x 170 A992/A36 Structural Beam Or Girder	377.01	92.86
			For Hot Dip Galvanizing, Add	77.15	
			For High Strength Low Alloy A572-50 Steel, Add	33.93	
			For High Strength Low Alloy A588 Steel, Add	75.40	
			For Each Additional Top Copes >2, Add	2.78	
			For Structural Tees, WT, MT Or ST, Deduct	-117.11	
			For Skewed Or Sloped Connections, Add	45.24	
05 12 23 00-0245	LF		W33 x 152 A992/A36 Structural Beam Or Girder	342.14	79.82
			For Hot Dip Galvanizing, Add	71.32	
			For High Strength Low Alloy A572-50 Steel, Add	30.79	
			For High Strength Low Alloy A588 Steel, Add	68.43	
			For Each Additional Top Copes >2, Add	2.57	
			For Structural Tees, WT, MT Or ST, Deduct	-106.98	
			For Skewed Or Sloped Connections, Add	41.06	
05 12 23 00-0246	LF		W33 x 141 A992/A36 Structural Beam Or Girder	335.52	91.00
			For Hot Dip Galvanizing, Add	66.16	
			For High Strength Low Alloy A572-50 Steel, Add	30.20	
			For High Strength Low Alloy A588 Steel, Add	67.10	
			For Each Additional Top Copes >2, Add	2.38	
			For Structural Tees, WT, MT Or ST, Deduct	-102.87	
			For Skewed Or Sloped Connections, Add	40.26	
05 12 23 00-0247	LF		W33 x 130 A992/A36 Structural Beam Or Girder	319.16	90.33
			For Hot Dip Galvanizing, Add	61.84	
			For High Strength Low Alloy A572-50 Steel, Add	28.72	
			For High Strength Low Alloy A588 Steel, Add	63.83	
			For Each Additional Top Copes >2, Add	2.23	
			For Structural Tees, WT, MT Or ST, Deduct	-97.26	
			For Skewed Or Sloped Connections, Add	38.30	
05 12 23 00-0248	LF		W33 x 118 A992/A36 Structural Beam Or Girder	300.14	89.54
			For Hot Dip Galvanizing, Add	56.78	
			For High Strength Low Alloy A572-50 Steel, Add	27.01	
			For High Strength Low Alloy A588 Steel, Add	60.03	
			For Each Additional Top Copes >2, Add	2.05	
			For Structural Tees, WT, MT Or ST, Deduct	-90.72	
			For Skewed Or Sloped Connections, Add	36.02	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0249	LF		W30 x 211 A992/A36 Structural Beam Or Girder	421.88	84.48
			For Hot Dip Galvanizing, Add	92.06	
			For High Strength Low Alloy A572-50 Steel, Add	37.97	
			For High Strength Low Alloy A588 Steel, Add	84.38	
			For Each Additional Top Copes >2, Add	3.32	
			For Structural Tees, WT, MT Or ST, Deduct	-134.14	
			For Skewed Or Sloped Connections, Add	50.63	
05 12 23 00-0250	LF		W30 x 191 A992/A36 Structural Beam Or Girder	400.62	93.92
			For Hot Dip Galvanizing, Add	83.34	
			For High Strength Low Alloy A572-50 Steel, Add	36.06	
			For High Strength Low Alloy A588 Steel, Add	80.12	
			For Each Additional Top Copes >2, Add	3.00	
			For Structural Tees, WT, MT Or ST, Deduct	-125.17	
			For Skewed Or Sloped Connections, Add	48.07	
05 12 23 00-0251	LF		W30 x 173 A992/A36 Structural Beam Or Girder	366.34	80.63
			For Hot Dip Galvanizing, Add	77.80	
			For High Strength Low Alloy A572-50 Steel, Add	32.97	
			For High Strength Low Alloy A588 Steel, Add	73.27	
			For Each Additional Top Copes >2, Add	2.80	
			For Structural Tees, WT, MT Or ST, Deduct	-115.32	
			For Skewed Or Sloped Connections, Add	43.96	
05 12 23 00-0252	LF		W30 x 154 A992/A36 Structural Beam Or Girder	347.33	91.67
			For Hot Dip Galvanizing, Add	69.25	
			For High Strength Low Alloy A572-50 Steel, Add	31.26	
			For High Strength Low Alloy A588 Steel, Add	69.47	
			For Each Additional Top Copes >2, Add	2.50	
			For Structural Tees, WT, MT Or ST, Deduct	-106.90	
			For Skewed Or Sloped Connections, Add	41.68	
05 12 23 00-0253	LF		W30 x 132 A992/A36 Structural Beam Or Girder	309.19	77.79
			For Hot Dip Galvanizing, Add	62.78	
			For High Strength Low Alloy A572-50 Steel, Add	27.83	
			For High Strength Low Alloy A588 Steel, Add	61.84	
			For Each Additional Top Copes >2, Add	2.26	
			For Structural Tees, WT, MT Or ST, Deduct	-95.77	
			For Skewed Or Sloped Connections, Add	37.10	
05 12 23 00-0254	LF		W30 x 124 A992/A36 Structural Beam Or Girder	295.44	77.75
			For Hot Dip Galvanizing, Add	58.97	
			For High Strength Low Alloy A572-50 Steel, Add	26.59	
			For High Strength Low Alloy A588 Steel, Add	59.09	
			For Each Additional Top Copes >2, Add	2.13	
			For Structural Tees, WT, MT Or ST, Deduct	-90.96	
			For Skewed Or Sloped Connections, Add	35.45	
05 12 23 00-0255	LF		W30 x 116 A992/A36 Structural Beam Or Girder	294.18	89.41
			For Hot Dip Galvanizing, Add	55.17	
			For High Strength Low Alloy A572-50 Steel, Add	26.48	
			For High Strength Low Alloy A588 Steel, Add	58.84	
			For Each Additional Top Copes >2, Add	1.99	
			For Structural Tees, WT, MT Or ST, Deduct	-88.66	
			For Skewed Or Sloped Connections, Add	35.30	
05 12 23 00-0256	LF		W30 x 108 A992/A36 Structural Beam Or Girder	271.88	80.50
			For Hot Dip Galvanizing, Add	51.63	
			For High Strength Low Alloy A572-50 Steel, Add	24.47	
			For High Strength Low Alloy A588 Steel, Add	54.38	
			For Each Additional Top Copes >2, Add	1.86	
			For Structural Tees, WT, MT Or ST, Deduct	-82.29	
			For Skewed Or Sloped Connections, Add	32.63	
05 12 23 00-0257	LF		W30 x 99 A992/A36 Structural Beam Or Girder	260.21	80.11
			For Hot Dip Galvanizing, Add	48.54	
			For High Strength Low Alloy A572-50 Steel, Add	23.42	
			For High Strength Low Alloy A588 Steel, Add	52.04	
			For Each Additional Top Copes >2, Add	1.75	
			For Structural Tees, WT, MT Or ST, Deduct	-78.28	
			For Skewed Or Sloped Connections, Add	31.23	
05 12 23 00-0258	LF		W27 x 178 A992/A36 Structural Beam Or Girder	407.80	94.40
			For Hot Dip Galvanizing, Add	85.22	
			For High Strength Low Alloy A572-50 Steel, Add	36.70	
			For High Strength Low Alloy A588 Steel, Add	81.56	
			For Each Additional Top Copes >2, Add	3.07	
			For Structural Tees, WT, MT Or ST, Deduct	-127.63	
			For Skewed Or Sloped Connections, Add	48.94	
05 12 23 00-0259	LF		W27 x 161 A992/A36 Structural Beam Or Girder	374.67	90.83
			For Hot Dip Galvanizing, Add	77.08	
			For High Strength Low Alloy A572-50 Steel, Add	33.72	
			For High Strength Low Alloy A588 Steel, Add	74.93	
			For Each Additional Top Copes >2, Add	2.78	
			For Structural Tees, WT, MT Or ST, Deduct	-116.60	
			For Skewed Or Sloped Connections, Add	44.96	
05 12 23 00-0260	LF		W27 x 146 A992/A36 Structural Beam Or Girder	345.36	87.63
			For Hot Dip Galvanizing, Add	69.90	
			For High Strength Low Alloy A572-50 Steel, Add	31.08	
			For High Strength Low Alloy A588 Steel, Add	69.07	
			For Each Additional Top Copes >2, Add	2.52	
			For Structural Tees, WT, MT Or ST, Deduct	-106.86	
			For Skewed Or Sloped Connections, Add	41.44	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0261	LF		W27 x 114 A992/A36 Structural Beam Or Girder	274.32	72.79
			For Hot Dip Galvanizing, Add	54.58	
			For High Strength Low Alloy A572-50 Steel, Add	24.69	
			For High Strength Low Alloy A588 Steel, Add	54.86	
			For Each Additional Top Copes >2, Add	1.97	
			For Structural Tees, WT, MT Or ST, Deduct	-84.37	
			For Skewed Or Sloped Connections, Add	32.92	
05 12 23 00-0262	LF		W27 x 102 A992/A36 Structural Beam Or Girder	261.40	80.11
			For Hot Dip Galvanizing, Add	48.83	
			For High Strength Low Alloy A572-50 Steel, Add	23.53	
			For High Strength Low Alloy A588 Steel, Add	52.28	
			For Each Additional Top Copes >2, Add	1.76	
			For Structural Tees, WT, MT Or ST, Deduct	-78.68	
			For Skewed Or Sloped Connections, Add	31.37	
05 12 23 00-0263	LF		W27 x 94 A992/A36 Structural Beam Or Girder	250.42	79.57
			For Hot Dip Galvanizing, Add	45.94	
			For High Strength Low Alloy A572-50 Steel, Add	22.54	
			For High Strength Low Alloy A588 Steel, Add	50.08	
			For Each Additional Top Copes >2, Add	1.66	
			For Structural Tees, WT, MT Or ST, Deduct	-74.92	
			For Skewed Or Sloped Connections, Add	30.05	
05 12 23 00-0264	LF		W27 x 84 A992/A36 Structural Beam Or Girder	237.04	79.04
			For Hot Dip Galvanizing, Add	42.40	
			For High Strength Low Alloy A572-50 Steel, Add	21.33	
			For High Strength Low Alloy A588 Steel, Add	47.41	
			For Each Additional Top Copes >2, Add	1.53	
			For Structural Tees, WT, MT Or ST, Deduct	-70.33	
			For Skewed Or Sloped Connections, Add	28.44	
05 12 23 00-0265	LF		W24 x 162 A992/A36 Structural Beam Or Girder	360.82	87.09
			For Hot Dip Galvanizing, Add	74.35	
			For High Strength Low Alloy A572-50 Steel, Add	32.47	
			For High Strength Low Alloy A588 Steel, Add	72.16	
			For Each Additional Top Copes >2, Add	2.68	
			For Structural Tees, WT, MT Or ST, Deduct	-112.35	
			For Skewed Or Sloped Connections, Add	43.30	
05 12 23 00-0266	LF		W24 x 146 A992/A36 Structural Beam Or Girder	330.53	83.50
			For Hot Dip Galvanizing, Add	67.01	
			For High Strength Low Alloy A572-50 Steel, Add	29.75	
			For High Strength Low Alloy A588 Steel, Add	66.11	
			For Each Additional Top Copes >2, Add	2.41	
			For Structural Tees, WT, MT Or ST, Deduct	-102.33	
			For Skewed Or Sloped Connections, Add	39.66	
05 12 23 00-0267	LF		W24 x 131 A992/A36 Structural Beam Or Girder	301.67	79.70
			For Hot Dip Galvanizing, Add	60.12	
			For High Strength Low Alloy A572-50 Steel, Add	27.15	
			For High Strength Low Alloy A588 Steel, Add	60.33	
			For Each Additional Top Copes >2, Add	2.17	
			For Structural Tees, WT, MT Or ST, Deduct	-92.83	
			For Skewed Or Sloped Connections, Add	36.20	
05 12 23 00-0268	LF		W24 x 117 A992/A36 Structural Beam Or Girder	274.27	75.72
			For Hot Dip Galvanizing, Add	53.70	
			For High Strength Low Alloy A572-50 Steel, Add	24.68	
			For High Strength Low Alloy A588 Steel, Add	54.85	
			For Each Additional Top Copes >2, Add	1.94	
			For Structural Tees, WT, MT Or ST, Deduct	-83.88	
			For Skewed Or Sloped Connections, Add	32.91	
05 12 23 00-0269	LF		W24 x 104 A992/A36 Structural Beam Or Girder	248.38	71.61
			For Hot Dip Galvanizing, Add	47.73	
			For High Strength Low Alloy A572-50 Steel, Add	22.35	
			For High Strength Low Alloy A588 Steel, Add	49.68	
			For Each Additional Top Copes >2, Add	1.72	
			For Structural Tees, WT, MT Or ST, Deduct	-75.48	
			For Skewed Or Sloped Connections, Add	29.81	
05 12 23 00-0270	LF		W24 x 94 A992/A36 Structural Beam Or Girder	240.34	79.57
			For Hot Dip Galvanizing, Add	43.14	
			For High Strength Low Alloy A572-50 Steel, Add	21.63	
			For High Strength Low Alloy A588 Steel, Add	48.07	
			For Each Additional Top Copes >2, Add	1.55	
			For Structural Tees, WT, MT Or ST, Deduct	-71.39	
			For Skewed Or Sloped Connections, Add	28.84	
05 12 23 00-0271	LF		W24 x 84 A992/A36 Structural Beam Or Girder	218.94	70.54
			For Hot Dip Galvanizing, Add	39.85	
			For High Strength Low Alloy A572-50 Steel, Add	19.70	
			For High Strength Low Alloy A588 Steel, Add	43.79	
			For Each Additional Top Copes >2, Add	1.44	
			For Structural Tees, WT, MT Or ST, Deduct	-65.33	
			For Skewed Or Sloped Connections, Add	26.27	
05 12 23 00-0272	LF		W24 x 76 A992/A36 Structural Beam Or Girder	208.68	70.01
			For Hot Dip Galvanizing, Add	37.15	
			For High Strength Low Alloy A572-50 Steel, Add	18.78	
			For High Strength Low Alloy A588 Steel, Add	41.74	
			For Each Additional Top Copes >2, Add	1.34	
			For Structural Tees, WT, MT Or ST, Deduct	-61.82	
			For Skewed Or Sloped Connections, Add	25.04	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0273	LF		W24 x 68 A992/A36 Structural Beam Or Girder	195.78	69.61
			For Hot Dip Galvanizing, Add	33.72	
			For High Strength Low Alloy A572-50 Steel, Add	17.62	
			For High Strength Low Alloy A588 Steel, Add	39.16	
			For Each Additional Top Copes >2, Add	1.22	
			For Structural Tees, WT, MT Or ST, Deduct	-57.38	
			For Skewed Or Sloped Connections, Add	23.49	
05 12 23 00-0274	LF		W24 x 62 A992/A36 Structural Beam Or Girder	189.00	69.21
			For Hot Dip Galvanizing, Add	31.95	
			For High Strength Low Alloy A572-50 Steel, Add	17.01	
			For High Strength Low Alloy A588 Steel, Add	37.80	
			For Each Additional Top Copes >2, Add	1.15	
			For Structural Tees, WT, MT Or ST, Deduct	-55.07	
			For Skewed Or Sloped Connections, Add	22.68	
05 12 23 00-0275	LF		W24 x 55 A992/A36 Structural Beam Or Girder	179.77	68.95
			For Hot Dip Galvanizing, Add	29.50	
			For High Strength Low Alloy A572-50 Steel, Add	16.18	
			For High Strength Low Alloy A588 Steel, Add	35.95	
			For Each Additional Top Copes >2, Add	1.06	
			For Structural Tees, WT, MT Or ST, Deduct	-51.90	
			For Skewed Or Sloped Connections, Add	21.57	
05 12 23 00-0276	LF		W21 x 147 A992/A36 Structural Beam Or Girder	315.14	71.62
			For Hot Dip Galvanizing, Add	66.25	
			For High Strength Low Alloy A572-50 Steel, Add	28.36	
			For High Strength Low Alloy A588 Steel, Add	63.03	
			For Each Additional Top Copes >2, Add	2.39	
			For Structural Tees, WT, MT Or ST, Deduct	-98.84	
			For Skewed Or Sloped Connections, Add	37.82	
05 12 23 00-0277	LF		W21 x 132 A992/A36 Structural Beam Or Girder	287.37	68.42
			For Hot Dip Galvanizing, Add	59.49	
			For High Strength Low Alloy A572-50 Steel, Add	25.86	
			For High Strength Low Alloy A588 Steel, Add	57.47	
			For Each Additional Top Copes >2, Add	2.14	
			For Structural Tees, WT, MT Or ST, Deduct	-89.63	
			For Skewed Or Sloped Connections, Add	34.48	
05 12 23 00-0278	LF		W21 x 122 A992/A36 Structural Beam Or Girder	269.89	67.28
			For Hot Dip Galvanizing, Add	54.98	
			For High Strength Low Alloy A572-50 Steel, Add	24.29	
			For High Strength Low Alloy A588 Steel, Add	53.98	
			For Each Additional Top Copes >2, Add	1.98	
			For Structural Tees, WT, MT Or ST, Deduct	-83.70	
			For Skewed Or Sloped Connections, Add	32.39	
05 12 23 00-0279	LF		W21 x 111 A992/A36 Structural Beam Or Girder	249.74	65.11
			For Hot Dip Galvanizing, Add	50.03	
			For High Strength Low Alloy A572-50 Steel, Add	22.48	
			For High Strength Low Alloy A588 Steel, Add	49.95	
			For Each Additional Top Copes >2, Add	1.80	
			For Structural Tees, WT, MT Or ST, Deduct	-76.99	
			For Skewed Or Sloped Connections, Add	29.97	
05 12 23 00-0280	LF		W21 x 101 A992/A36 Structural Beam Or Girder	231.27	63.03
			For Hot Dip Galvanizing, Add	45.52	
			For High Strength Low Alloy A572-50 Steel, Add	20.81	
			For High Strength Low Alloy A588 Steel, Add	46.25	
			For Each Additional Top Copes >2, Add	1.64	
			For Structural Tees, WT, MT Or ST, Deduct	-70.86	
			For Skewed Or Sloped Connections, Add	27.75	
05 12 23 00-0281	LF		W21 x 93 A992/A36 Structural Beam Or Girder	227.16	71.34
			For Hot Dip Galvanizing, Add	41.91	
			For High Strength Low Alloy A572-50 Steel, Add	20.44	
			For High Strength Low Alloy A588 Steel, Add	45.43	
			For Each Additional Top Copes >2, Add	1.51	
			For Structural Tees, WT, MT Or ST, Deduct	-68.09	
			For Skewed Or Sloped Connections, Add	27.26	
05 12 23 00-0282	LF		W21 x 83 A992/A36 Structural Beam Or Girder	215.05	70.54
			For Hot Dip Galvanizing, Add	38.77	
			For High Strength Low Alloy A572-50 Steel, Add	19.35	
			For High Strength Low Alloy A588 Steel, Add	43.01	
			For Each Additional Top Copes >2, Add	1.40	
			For Structural Tees, WT, MT Or ST, Deduct	-63.97	
			For Skewed Or Sloped Connections, Add	25.81	
05 12 23 00-0283	LF		W21 x 73 A992/A36 Structural Beam Or Girder	200.23	70.01
			For Hot Dip Galvanizing, Add	34.85	
			For High Strength Low Alloy A572-50 Steel, Add	18.02	
			For High Strength Low Alloy A588 Steel, Add	40.05	
			For Each Additional Top Copes >2, Add	1.26	
			For Structural Tees, WT, MT Or ST, Deduct	-58.88	
			For Skewed Or Sloped Connections, Add	24.03	
05 12 23 00-0284	LF		W21 x 68 A992/A36 Structural Beam Or Girder	192.77	69.61
			For Hot Dip Galvanizing, Add	32.88	
			For High Strength Low Alloy A572-50 Steel, Add	17.35	
			For High Strength Low Alloy A588 Steel, Add	38.55	
			For Each Additional Top Copes >2, Add	1.19	
			For Structural Tees, WT, MT Or ST, Deduct	-56.33	
			For Skewed Or Sloped Connections, Add	23.13	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0285	LF		W21 x 62 A992/A36 Structural Beam Or Girder	185.99	69.21
			For Hot Dip Galvanizing, Add	31.12	
			For High Strength Low Alloy A572-50 Steel, Add	16.74	
			For High Strength Low Alloy A588 Steel, Add	37.20	
			For Each Additional Top Copes >2, Add	1.12	
			For Structural Tees, WT, MT Or ST, Deduct	-54.02	
			For Skewed Or Sloped Connections, Add	22.32	
05 12 23 00-0286	LF		W21 x 57 A992/A36 Structural Beam Or Girder	179.90	69.08
			For Hot Dip Galvanizing, Add	29.50	
			For High Strength Low Alloy A572-50 Steel, Add	16.19	
			For High Strength Low Alloy A588 Steel, Add	35.98	
			For Each Additional Top Copes >2, Add	1.06	
			For Structural Tees, WT, MT Or ST, Deduct	-51.93	
			For Skewed Or Sloped Connections, Add	21.59	
05 12 23 00-0287	LF		W21 x 50 A992/A36 Structural Beam Or Girder	159.36	59.91
			For Hot Dip Galvanizing, Add	26.45	
			For High Strength Low Alloy A572-50 Steel, Add	14.34	
			For High Strength Low Alloy A588 Steel, Add	31.87	
			For Each Additional Top Copes >2, Add	0.95	
			For Structural Tees, WT, MT Or ST, Deduct	-46.17	
			For Skewed Or Sloped Connections, Add	19.12	
05 12 23 00-0288	LF		W21 x 44 A992/A36 Structural Beam Or Girder	152.25	59.65
			For Hot Dip Galvanizing, Add	24.59	
			For High Strength Low Alloy A572-50 Steel, Add	13.70	
			For High Strength Low Alloy A588 Steel, Add	30.45	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-43.74	
			For Skewed Or Sloped Connections, Add	18.27	
05 12 23 00-0289	LF		W18 x 119 A992/A36 Structural Beam Or Girder	262.67	67.04
			For Hot Dip Galvanizing, Add	53.05	
			For High Strength Low Alloy A572-50 Steel, Add	23.64	
			For High Strength Low Alloy A588 Steel, Add	52.53	
			For Each Additional Top Copes >2, Add	1.91	
			For Structural Tees, WT, MT Or ST, Deduct	-81.21	
			For Skewed Or Sloped Connections, Add	31.52	
05 12 23 00-0290	LF		W18 x 106 A992/A36 Structural Beam Or Girder	238.04	63.54
			For Hot Dip Galvanizing, Add	47.25	
			For High Strength Low Alloy A572-50 Steel, Add	21.42	
			For High Strength Low Alloy A588 Steel, Add	47.61	
			For Each Additional Top Copes >2, Add	1.70	
			For Structural Tees, WT, MT Or ST, Deduct	-73.15	
			For Skewed Or Sloped Connections, Add	28.56	
05 12 23 00-0291	LF		W18 x 97 A992/A36 Structural Beam Or Girder	232.07	71.34
			For Hot Dip Galvanizing, Add	43.24	
			For High Strength Low Alloy A572-50 Steel, Add	20.89	
			For High Strength Low Alloy A588 Steel, Add	46.41	
			For Each Additional Top Copes >2, Add	1.56	
			For Structural Tees, WT, MT Or ST, Deduct	-69.79	
			For Skewed Or Sloped Connections, Add	27.85	
05 12 23 00-0292	LF		W18 x 86 A992/A36 Structural Beam Or Girder	218.18	70.67
			For Hot Dip Galvanizing, Add	39.61	
			For High Strength Low Alloy A572-50 Steel, Add	19.64	
			For High Strength Low Alloy A588 Steel, Add	43.64	
			For Each Additional Top Copes >2, Add	1.43	
			For Structural Tees, WT, MT Or ST, Deduct	-65.05	
			For Skewed Or Sloped Connections, Add	26.18	
05 12 23 00-0293	LF		W18 x 76 A992/A36 Structural Beam Or Girder	205.67	70.01
			For Hot Dip Galvanizing, Add	36.32	
			For High Strength Low Alloy A572-50 Steel, Add	18.51	
			For High Strength Low Alloy A588 Steel, Add	41.13	
			For Each Additional Top Copes >2, Add	1.31	
			For Structural Tees, WT, MT Or ST, Deduct	-60.77	
			For Skewed Or Sloped Connections, Add	24.68	
05 12 23 00-0294	LF		W18 x 71 A992/A36 Structural Beam Or Girder	196.57	69.87
			For Hot Dip Galvanizing, Add	33.87	
			For High Strength Low Alloy A572-50 Steel, Add	17.69	
			For High Strength Low Alloy A588 Steel, Add	39.31	
			For Each Additional Top Copes >2, Add	1.22	
			For Structural Tees, WT, MT Or ST, Deduct	-57.62	
			For Skewed Or Sloped Connections, Add	23.59	
05 12 23 00-0295	LF		W18 x 65 A992/A36 Structural Beam Or Girder	187.67	69.61
			For Hot Dip Galvanizing, Add	31.51	
			For High Strength Low Alloy A572-50 Steel, Add	16.89	
			For High Strength Low Alloy A588 Steel, Add	37.53	
			For Each Additional Top Copes >2, Add	1.14	
			For Structural Tees, WT, MT Or ST, Deduct	-54.57	
			For Skewed Or Sloped Connections, Add	22.52	
05 12 23 00-0296	LF		W18 x 60 A992/A36 Structural Beam Or Girder	179.67	69.08
			For Hot Dip Galvanizing, Add	29.40	
			For High Strength Low Alloy A572-50 Steel, Add	16.17	
			For High Strength Low Alloy A588 Steel, Add	35.93	
			For Each Additional Top Copes >2, Add	1.06	
			For Structural Tees, WT, MT Or ST, Deduct	-51.83	
			For Skewed Or Sloped Connections, Add	21.56	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0297	LF		W18 x 55 A992/A36 Structural Beam Or Girder	171.63	68.95
			For Hot Dip Galvanizing, Add	27.24	
			For High Strength Low Alloy A572-50 Steel, Add	15.45	
			For High Strength Low Alloy A588 Steel, Add	34.33	
			For Each Additional Top Copes >2, Add	0.98	
			For Structural Tees, WT, MT Or ST, Deduct	-49.05	
			For Skewed Or Sloped Connections, Add	20.60	
05 12 23 00-0298	LF		W18 x 50 A992/A36 Structural Beam Or Girder	154.41	59.91
			For Hot Dip Galvanizing, Add	25.08	
			For High Strength Low Alloy A572-50 Steel, Add	13.90	
			For High Strength Low Alloy A588 Steel, Add	30.88	
			For Each Additional Top Copes >2, Add	0.90	
			For Structural Tees, WT, MT Or ST, Deduct	-44.44	
			For Skewed Or Sloped Connections, Add	18.53	
05 12 23 00-0299	LF		W18 x 46 A992/A36 Structural Beam Or Girder	148.13	59.78
			For Hot Dip Galvanizing, Add	23.41	
			For High Strength Low Alloy A572-50 Steel, Add	13.33	
			For High Strength Low Alloy A588 Steel, Add	29.63	
			For Each Additional Top Copes >2, Add	0.84	
			For Structural Tees, WT, MT Or ST, Deduct	-42.28	
			For Skewed Or Sloped Connections, Add	17.78	
05 12 23 00-0300	LF		W18 x 40 A992/A36 Structural Beam Or Girder	129.45	51.01
			For Hot Dip Galvanizing, Add	20.81	
			For High Strength Low Alloy A572-50 Steel, Add	11.65	
			For High Strength Low Alloy A588 Steel, Add	25.89	
			For Each Additional Top Copes >2, Add	0.75	
			For Structural Tees, WT, MT Or ST, Deduct	-37.14	
			For Skewed Or Sloped Connections, Add	15.53	
05 12 23 00-0301	LF		W18 x 35 A992/A36 Structural Beam Or Girder	121.59	50.88
			For Hot Dip Galvanizing, Add	18.70	
			For High Strength Low Alloy A572-50 Steel, Add	10.94	
			For High Strength Low Alloy A588 Steel, Add	24.32	
			For Each Additional Top Copes >2, Add	0.67	
			For Structural Tees, WT, MT Or ST, Deduct	-34.43	
			For Skewed Or Sloped Connections, Add	14.59	
05 12 23 00-0302	LF		W16 x 100 A992/A36 Structural Beam Or Girder	216.90	46.37
			For Hot Dip Galvanizing, Add	46.48	
			For High Strength Low Alloy A572-50 Steel, Add	19.52	
			For High Strength Low Alloy A588 Steel, Add	43.38	
			For Each Additional Top Copes >2, Add	1.67	
			For Structural Tees, WT, MT Or ST, Deduct	-68.50	
			For Skewed Or Sloped Connections, Add	26.03	
05 12 23 00-0303	LF		W16 x 89 A992/A36 Structural Beam Or Girder	199.13	45.57
			For Hot Dip Galvanizing, Add	41.77	
			For High Strength Low Alloy A572-50 Steel, Add	17.92	
			For High Strength Low Alloy A588 Steel, Add	39.83	
			For Each Additional Top Copes >2, Add	1.51	
			For Structural Tees, WT, MT Or ST, Deduct	-62.40	
			For Skewed Or Sloped Connections, Add	23.90	
05 12 23 00-0304	LF		W16 x 77 A992/A36 Structural Beam Or Girder	180.07	45.04
			For Hot Dip Galvanizing, Add	36.66	
			For High Strength Low Alloy A572-50 Steel, Add	16.21	
			For High Strength Low Alloy A588 Steel, Add	36.01	
			For Each Additional Top Copes >2, Add	1.32	
			For Structural Tees, WT, MT Or ST, Deduct	-55.83	
			For Skewed Or Sloped Connections, Add	21.61	
05 12 23 00-0305	LF		W16 x 67 A992/A36 Structural Beam Or Girder	163.85	44.37
			For Hot Dip Galvanizing, Add	32.34	
			For High Strength Low Alloy A572-50 Steel, Add	14.75	
			For High Strength Low Alloy A588 Steel, Add	32.77	
			For Each Additional Top Copes >2, Add	1.17	
			For Structural Tees, WT, MT Or ST, Deduct	-50.25	
			For Skewed Or Sloped Connections, Add	19.66	
05 12 23 00-0306	LF		W16 x 57 A992/A36 Structural Beam Or Girder	147.80	43.70
			For Hot Dip Galvanizing, Add	28.07	
			For High Strength Low Alloy A572-50 Steel, Add	13.30	
			For High Strength Low Alloy A588 Steel, Add	29.56	
			For Each Additional Top Copes >2, Add	1.01	
			For Structural Tees, WT, MT Or ST, Deduct	-44.74	
			For Skewed Or Sloped Connections, Add	17.74	
05 12 23 00-0307	LF		W16 x 50 A992/A36 Structural Beam Or Girder	136.61	43.31
			For Hot Dip Galvanizing, Add	25.08	
			For High Strength Low Alloy A572-50 Steel, Add	12.29	
			For High Strength Low Alloy A588 Steel, Add	27.32	
			For Each Additional Top Copes >2, Add	0.90	
			For Structural Tees, WT, MT Or ST, Deduct	-40.88	
			For Skewed Or Sloped Connections, Add	16.39	
05 12 23 00-0308	LF		W16 x 45 A992/A36 Structural Beam Or Girder	128.73	43.04
			For Hot Dip Galvanizing, Add	22.97	
			For High Strength Low Alloy A572-50 Steel, Add	11.59	
			For High Strength Low Alloy A588 Steel, Add	25.75	
			For Each Additional Top Copes >2, Add	0.83	
			For Structural Tees, WT, MT Or ST, Deduct	-38.16	
			For Skewed Or Sloped Connections, Add	15.45	



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

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 12 23 00-0309	LF	W16 x 40 A992/A36 Structural Beam Or Girder	120.56	42.64
		For Hot Dip Galvanizing, Add	20.81	
		For High Strength Low Alloy A572-50 Steel, Add	10.85	
		For High Strength Low Alloy A588 Steel, Add	24.11	
		For Each Additional Top Copes >2, Add	0.75	
		For Structural Tees, WT, MT Or ST, Deduct	-35.36	
		For Skewed Or Sloped Connections, Add	14.47	
05 12 23 00-0310	LF	W16 x 36 A992/A36 Structural Beam Or Girder	114.15	42.38
		For Hot Dip Galvanizing, Add	19.14	
		For High Strength Low Alloy A572-50 Steel, Add	10.27	
		For High Strength Low Alloy A588 Steel, Add	22.83	
		For Each Additional Top Copes >2, Add	0.69	
		For Structural Tees, WT, MT Or ST, Deduct	-33.18	
		For Skewed Or Sloped Connections, Add	13.70	
05 12 23 00-0311	LF	W16 x 31 A992/A36 Structural Beam Or Girder	97.20	33.74
		For Hot Dip Galvanizing, Add	16.98	
		For High Strength Low Alloy A572-50 Steel, Add	8.75	
		For High Strength Low Alloy A588 Steel, Add	19.44	
		For Each Additional Top Copes >2, Add	0.61	
		For Structural Tees, WT, MT Or ST, Deduct	-28.62	
		For Skewed Or Sloped Connections, Add	11.66	
05 12 23 00-0312	LF	W16 x 26 A992/A36 Structural Beam Or Girder	86.91	33.35
		For Hot Dip Galvanizing, Add	14.24	
		For High Strength Low Alloy A572-50 Steel, Add	7.82	
		For High Strength Low Alloy A588 Steel, Add	17.38	
		For Each Additional Top Copes >2, Add	0.51	
		For Structural Tees, WT, MT Or ST, Deduct	-25.08	
		For Skewed Or Sloped Connections, Add	10.43	
05 12 23 00-0313	LF	W14 x 99 A992/A36 Structural Beam Or Girder	206.41	37.99
		For Hot Dip Galvanizing, Add	46.04	
		For High Strength Low Alloy A572-50 Steel, Add	18.58	
		For High Strength Low Alloy A588 Steel, Add	41.28	
		For Each Additional Top Copes >2, Add	1.66	
		For Structural Tees, WT, MT Or ST, Deduct	-66.17	
		For Skewed Or Sloped Connections, Add	24.77	
05 12 23 00-0314	LF	W14 x 90 A992/A36 Structural Beam Or Girder	191.94	37.33
		For Hot Dip Galvanizing, Add	42.21	
		For High Strength Low Alloy A572-50 Steel, Add	17.27	
		For High Strength Low Alloy A588 Steel, Add	38.39	
		For Each Additional Top Copes >2, Add	1.52	
		For Structural Tees, WT, MT Or ST, Deduct	-61.20	
		For Skewed Or Sloped Connections, Add	23.03	
05 12 23 00-0315	LF	W14 x 82 A992/A36 Structural Beam Or Girder	179.04	36.93
		For Hot Dip Galvanizing, Add	38.77	
		For High Strength Low Alloy A572-50 Steel, Add	16.11	
		For High Strength Low Alloy A588 Steel, Add	35.81	
		For Each Additional Top Copes >2, Add	1.40	
		For Structural Tees, WT, MT Or ST, Deduct	-56.77	
		For Skewed Or Sloped Connections, Add	21.48	
05 12 23 00-0316	LF	W14 x 74 A992/A36 Structural Beam Or Girder	166.15	36.40
		For Hot Dip Galvanizing, Add	35.34	
		For High Strength Low Alloy A572-50 Steel, Add	14.95	
		For High Strength Low Alloy A588 Steel, Add	33.23	
		For Each Additional Top Copes >2, Add	1.27	
		For Structural Tees, WT, MT Or ST, Deduct	-52.33	
		For Skewed Or Sloped Connections, Add	19.94	
05 12 23 00-0317	LF	W14 x 68 A992/A36 Structural Beam Or Girder	156.54	36.00
		For Hot Dip Galvanizing, Add	32.79	
		For High Strength Low Alloy A572-50 Steel, Add	14.09	
		For High Strength Low Alloy A588 Steel, Add	31.31	
		For Each Additional Top Copes >2, Add	1.18	
		For Structural Tees, WT, MT Or ST, Deduct	-49.03	
		For Skewed Or Sloped Connections, Add	18.78	
05 12 23 00-0318	LF	W14 x 61 A992/A36 Structural Beam Or Girder	145.35	35.60
		For Hot Dip Galvanizing, Add	29.79	
		For High Strength Low Alloy A572-50 Steel, Add	13.08	
		For High Strength Low Alloy A588 Steel, Add	29.07	
		For Each Additional Top Copes >2, Add	1.07	
		For Structural Tees, WT, MT Or ST, Deduct	-45.17	
		For Skewed Or Sloped Connections, Add	17.44	
05 12 23 00-0319	LF	W14 x 53 A992/A36 Structural Beam Or Girder	132.62	35.07
		For Hot Dip Galvanizing, Add	26.40	
		For High Strength Low Alloy A572-50 Steel, Add	11.94	
		For High Strength Low Alloy A588 Steel, Add	26.52	
		For Each Additional Top Copes >2, Add	0.95	
		For Structural Tees, WT, MT Or ST, Deduct	-40.80	
		For Skewed Or Sloped Connections, Add	15.91	
05 12 23 00-0320	LF	W14 x 48 A992/A36 Structural Beam Or Girder	124.43	34.67
		For Hot Dip Galvanizing, Add	24.25	
		For High Strength Low Alloy A572-50 Steel, Add	11.20	
		For High Strength Low Alloy A588 Steel, Add	24.89	
		For Each Additional Top Copes >2, Add	0.87	
		For Structural Tees, WT, MT Or ST, Deduct	-37.99	
		For Skewed Or Sloped Connections, Add	14.93	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0321	LF		W14 x 43 A992/A36 Structural Beam Or Girder	116.39	34.54
			For Hot Dip Galvanizing, Add	22.09	
			For High Strength Low Alloy A572-50 Steel, Add	10.48	
			For High Strength Low Alloy A588 Steel, Add	23.28	
			For Each Additional Top Copes >2, Add	0.80	
			For Structural Tees, WT, MT Or ST, Deduct	-35.22	
			For Skewed Or Sloped Connections, Add	13.97	
05 12 23 00-0322	LF		W14 x 38 A992/A36 Structural Beam Or Girder	108.38	34.28
			For Hot Dip Galvanizing, Add	19.97	
			For High Strength Low Alloy A572-50 Steel, Add	9.75	
			For High Strength Low Alloy A588 Steel, Add	21.68	
			For Each Additional Top Copes >2, Add	0.72	
			For Structural Tees, WT, MT Or ST, Deduct	-32.47	
			For Skewed Or Sloped Connections, Add	13.01	
05 12 23 00-0323	LF		W14 x 34 A992/A36 Structural Beam Or Girder	101.92	33.87
			For Hot Dip Galvanizing, Add	18.26	
			For High Strength Low Alloy A572-50 Steel, Add	9.17	
			For High Strength Low Alloy A588 Steel, Add	20.38	
			For Each Additional Top Copes >2, Add	0.66	
			For Structural Tees, WT, MT Or ST, Deduct	-30.25	
			For Skewed Or Sloped Connections, Add	12.23	
05 12 23 00-0324	LF		W14 x 30 A992/A36 Structural Beam Or Girder	95.47	33.74
			For Hot Dip Galvanizing, Add	16.54	
			For High Strength Low Alloy A572-50 Steel, Add	8.59	
			For High Strength Low Alloy A588 Steel, Add	19.09	
			For Each Additional Top Copes >2, Add	0.60	
			For Structural Tees, WT, MT Or ST, Deduct	-28.03	
			For Skewed Or Sloped Connections, Add	11.46	
05 12 23 00-0325	LF		W14 x 26 A992/A36 Structural Beam Or Girder	89.01	33.35
			For Hot Dip Galvanizing, Add	14.82	
			For High Strength Low Alloy A572-50 Steel, Add	8.01	
			For High Strength Low Alloy A588 Steel, Add	17.80	
			For Each Additional Top Copes >2, Add	0.53	
			For Structural Tees, WT, MT Or ST, Deduct	-25.81	
			For Skewed Or Sloped Connections, Add	10.68	
05 12 23 00-0326	LF		W14 x 22 A992/A36 Structural Beam Or Girder	82.74	33.21
			For Hot Dip Galvanizing, Add	13.15	
			For High Strength Low Alloy A572-50 Steel, Add	7.45	
			For High Strength Low Alloy A588 Steel, Add	16.55	
			For Each Additional Top Copes >2, Add	0.47	
			For Structural Tees, WT, MT Or ST, Deduct	-23.66	
			For Skewed Or Sloped Connections, Add	9.93	
05 12 23 00-0327	LF		W12 x 87 A992/A36 Structural Beam Or Girder	187.23	37.19
			For Hot Dip Galvanizing, Add	40.93	
			For High Strength Low Alloy A572-50 Steel, Add	16.85	
			For High Strength Low Alloy A588 Steel, Add	37.45	
			For Each Additional Top Copes >2, Add	1.48	
			For Structural Tees, WT, MT Or ST, Deduct	-59.57	
			For Skewed Or Sloped Connections, Add	22.47	
05 12 23 00-0328	LF		W12 x 79 A992/A36 Structural Beam Or Girder	174.31	36.67
			For Hot Dip Galvanizing, Add	37.50	
			For High Strength Low Alloy A572-50 Steel, Add	15.69	
			For High Strength Low Alloy A588 Steel, Add	34.86	
			For Each Additional Top Copes >2, Add	1.35	
			For Structural Tees, WT, MT Or ST, Deduct	-55.13	
			For Skewed Or Sloped Connections, Add	20.92	
05 12 23 00-0329	LF		W12 x 72 A992/A36 Structural Beam Or Girder	163.00	36.26
			For Hot Dip Galvanizing, Add	34.50	
			For High Strength Low Alloy A572-50 Steel, Add	14.67	
			For High Strength Low Alloy A588 Steel, Add	32.60	
			For Each Additional Top Copes >2, Add	1.24	
			For Structural Tees, WT, MT Or ST, Deduct	-51.25	
			For Skewed Or Sloped Connections, Add	19.56	
05 12 23 00-0330	LF		W12 x 65 A992/A36 Structural Beam Or Girder	151.81	35.87
			For Hot Dip Galvanizing, Add	31.51	
			For High Strength Low Alloy A572-50 Steel, Add	13.66	
			For High Strength Low Alloy A588 Steel, Add	30.36	
			For Each Additional Top Copes >2, Add	1.14	
			For Structural Tees, WT, MT Or ST, Deduct	-47.39	
			For Skewed Or Sloped Connections, Add	18.22	
05 12 23 00-0331	LF		W12 x 58 A992/A36 Structural Beam Or Girder	140.49	35.34
			For Hot Dip Galvanizing, Add	28.52	
			For High Strength Low Alloy A572-50 Steel, Add	12.64	
			For High Strength Low Alloy A588 Steel, Add	28.10	
			For Each Additional Top Copes >2, Add	1.03	
			For Structural Tees, WT, MT Or ST, Deduct	-43.51	
			For Skewed Or Sloped Connections, Add	16.86	
05 12 23 00-0332	LF		W12 x 53 A992/A36 Structural Beam Or Girder	132.62	35.07
			For Hot Dip Galvanizing, Add	26.40	
			For High Strength Low Alloy A572-50 Steel, Add	11.94	
			For High Strength Low Alloy A588 Steel, Add	26.52	
			For Each Additional Top Copes >2, Add	0.95	
			For Structural Tees, WT, MT Or ST, Deduct	-40.80	
			For Skewed Or Sloped Connections, Add	15.91	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0333	LF		W12 x 50 A992/A36 Structural Beam Or Girder	127.57	34.94
			For Hot Dip Galvanizing, Add	25.08	
			For High Strength Low Alloy A572-50 Steel, Add	11.48	
			For High Strength Low Alloy A588 Steel, Add	25.51	
			For Each Additional Top Copes >2, Add	0.90	
			For Structural Tees, WT, MT Or ST, Deduct	-39.07	
			For Skewed Or Sloped Connections, Add	15.31	
05 12 23 00-0334	LF		W12 x 45 A992/A36 Structural Beam Or Girder	119.70	34.67
			For Hot Dip Galvanizing, Add	22.97	
			For High Strength Low Alloy A572-50 Steel, Add	10.77	
			For High Strength Low Alloy A588 Steel, Add	23.94	
			For Each Additional Top Copes >2, Add	0.83	
			For Structural Tees, WT, MT Or ST, Deduct	-36.36	
			For Skewed Or Sloped Connections, Add	14.36	
05 12 23 00-0335	LF		W12 x 40 A992/A36 Structural Beam Or Girder	102.49	25.77
			For Hot Dip Galvanizing, Add	20.81	
			For High Strength Low Alloy A572-50 Steel, Add	9.22	
			For High Strength Low Alloy A588 Steel, Add	20.50	
			For Each Additional Top Copes >2, Add	0.75	
			For Structural Tees, WT, MT Or ST, Deduct	-31.75	
			For Skewed Or Sloped Connections, Add	12.30	
05 12 23 00-0336	LF		W12 x 35 A992/A36 Structural Beam Or Girder	94.62	25.64
			For Hot Dip Galvanizing, Add	18.70	
			For High Strength Low Alloy A572-50 Steel, Add	8.52	
			For High Strength Low Alloy A588 Steel, Add	18.92	
			For Each Additional Top Copes >2, Add	0.67	
			For Structural Tees, WT, MT Or ST, Deduct	-29.03	
			For Skewed Or Sloped Connections, Add	11.35	
05 12 23 00-0337	LF		W12 x 30 A992/A36 Structural Beam Or Girder	86.44	25.24
			For Hot Dip Galvanizing, Add	16.54	
			For High Strength Low Alloy A572-50 Steel, Add	7.78	
			For High Strength Low Alloy A588 Steel, Add	17.29	
			For Each Additional Top Copes >2, Add	0.60	
			For Structural Tees, WT, MT Or ST, Deduct	-26.23	
			For Skewed Or Sloped Connections, Add	10.37	
05 12 23 00-0338	LF		W12 x 26 A992/A36 Structural Beam Or Girder	79.98	24.97
			For Hot Dip Galvanizing, Add	14.82	
			For High Strength Low Alloy A572-50 Steel, Add	7.20	
			For High Strength Low Alloy A588 Steel, Add	16.00	
			For Each Additional Top Copes >2, Add	0.53	
			For Structural Tees, WT, MT Or ST, Deduct	-24.01	
			For Skewed Or Sloped Connections, Add	9.60	
05 12 23 00-0339	LF		W12 x 22 A992/A36 Structural Beam Or Girder	73.70	24.71
			For Hot Dip Galvanizing, Add	13.15	
			For High Strength Low Alloy A572-50 Steel, Add	6.63	
			For High Strength Low Alloy A588 Steel, Add	14.74	
			For Each Additional Top Copes >2, Add	0.47	
			For Structural Tees, WT, MT Or ST, Deduct	-21.85	
			For Skewed Or Sloped Connections, Add	8.84	
05 12 23 00-0340	LF		W12 x 19 A992/A36 Structural Beam Or Girder	68.79	24.58
			For Hot Dip Galvanizing, Add	11.83	
			For High Strength Low Alloy A572-50 Steel, Add	6.19	
			For High Strength Low Alloy A588 Steel, Add	13.76	
			For Each Additional Top Copes >2, Add	0.43	
			For Structural Tees, WT, MT Or ST, Deduct	-20.15	
			For Skewed Or Sloped Connections, Add	8.25	
05 12 23 00-0341	LF		W12 x 16 A992/A36 Structural Beam Or Girder	63.94	24.17
			For Hot Dip Galvanizing, Add	10.55	
			For High Strength Low Alloy A572-50 Steel, Add	5.75	
			For High Strength Low Alloy A588 Steel, Add	12.79	
			For Each Additional Top Copes >2, Add	0.38	
			For Structural Tees, WT, MT Or ST, Deduct	-18.49	
			For Skewed Or Sloped Connections, Add	7.67	
05 12 23 00-0342	LF		W12 x 14 A992/A36 Structural Beam Or Girder	60.79	24.17
			For Hot Dip Galvanizing, Add	9.72	
			For High Strength Low Alloy A572-50 Steel, Add	5.47	
			For High Strength Low Alloy A588 Steel, Add	12.16	
			For Each Additional Top Copes >2, Add	0.35	
			For Structural Tees, WT, MT Or ST, Deduct	-17.41	
			For Skewed Or Sloped Connections, Add	7.29	
05 12 23 00-0343	LF		W10 x 68 A992/A36 Structural Beam Or Girder	147.99	27.77
			For Hot Dip Galvanizing, Add	32.88	
			For High Strength Low Alloy A572-50 Steel, Add	13.32	
			For High Strength Low Alloy A588 Steel, Add	29.60	
			For Each Additional Top Copes >2, Add	1.19	
			For Structural Tees, WT, MT Or ST, Deduct	-47.37	
			For Skewed Or Sloped Connections, Add	17.76	
05 12 23 00-0344	LF		W10 x 60 A992/A36 Structural Beam Or Girder	135.26	27.23
			For Hot Dip Galvanizing, Add	29.50	
			For High Strength Low Alloy A572-50 Steel, Add	12.17	
			For High Strength Low Alloy A588 Steel, Add	27.05	
			For Each Additional Top Copes >2, Add	1.06	
			For Structural Tees, WT, MT Or ST, Deduct	-43.00	
			For Skewed Or Sloped Connections, Add	16.23	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0345	LF		W10 x 54 A992/A36 Structural Beam Or Girder	125.48	26.71
			For Hot Dip Galvanizing, Add	26.90	
			For High Strength Low Alloy A572-50 Steel, Add	11.29	
			For High Strength Low Alloy A588 Steel, Add	25.10	
			For Each Additional Top Copes >2, Add	0.97	
			For Structural Tees, WT, MT Or ST, Deduct	-39.63	
			For Skewed Or Sloped Connections, Add	15.06	
05 12 23 00-0346	LF		W10 x 49 A992/A36 Structural Beam Or Girder	117.48	26.43
			For Hot Dip Galvanizing, Add	24.79	
			For High Strength Low Alloy A572-50 Steel, Add	10.57	
			For High Strength Low Alloy A588 Steel, Add	23.50	
			For Each Additional Top Copes >2, Add	0.89	
			For Structural Tees, WT, MT Or ST, Deduct	-36.89	
			For Skewed Or Sloped Connections, Add	14.10	
05 12 23 00-0347	LF		W10 x 45 A992/A36 Structural Beam Or Girder	111.03	26.30
			For Hot Dip Galvanizing, Add	23.07	
			For High Strength Low Alloy A572-50 Steel, Add	9.99	
			For High Strength Low Alloy A588 Steel, Add	22.21	
			For Each Additional Top Copes >2, Add	0.83	
			For Structural Tees, WT, MT Or ST, Deduct	-34.68	
			For Skewed Or Sloped Connections, Add	13.32	
05 12 23 00-0348	LF		W10 x 39 A992/A36 Structural Beam Or Girder	101.43	25.77
			For Hot Dip Galvanizing, Add	20.52	
			For High Strength Low Alloy A572-50 Steel, Add	9.13	
			For High Strength Low Alloy A588 Steel, Add	20.29	
			For Each Additional Top Copes >2, Add	0.74	
			For Structural Tees, WT, MT Or ST, Deduct	-31.38	
			For Skewed Or Sloped Connections, Add	12.17	
05 12 23 00-0349	LF		W10 x 33 A992/A36 Structural Beam Or Girder	91.83	25.37
			For Hot Dip Galvanizing, Add	17.96	
			For High Strength Low Alloy A572-50 Steel, Add	8.26	
			For High Strength Low Alloy A588 Steel, Add	18.37	
			For Each Additional Top Copes >2, Add	0.65	
			For Structural Tees, WT, MT Or ST, Deduct	-28.08	
			For Skewed Or Sloped Connections, Add	11.02	
05 12 23 00-0350	LF		W10 x 30 A992/A36 Structural Beam Or Girder	86.93	25.24
			For Hot Dip Galvanizing, Add	16.64	
			For High Strength Low Alloy A572-50 Steel, Add	7.82	
			For High Strength Low Alloy A588 Steel, Add	17.39	
			For Each Additional Top Copes >2, Add	0.60	
			For Structural Tees, WT, MT Or ST, Deduct	-26.38	
			For Skewed Or Sloped Connections, Add	10.43	
05 12 23 00-0351	LF		W10 x 26 A992/A36 Structural Beam Or Girder	80.65	25.11
			For Hot Dip Galvanizing, Add	14.97	
			For High Strength Low Alloy A572-50 Steel, Add	7.26	
			For High Strength Low Alloy A588 Steel, Add	16.13	
			For Each Additional Top Copes >2, Add	0.54	
			For Structural Tees, WT, MT Or ST, Deduct	-24.22	
			For Skewed Or Sloped Connections, Add	9.68	
05 12 23 00-0352	LF		W10 x 22 A992/A36 Structural Beam Or Girder	74.05	24.71
			For Hot Dip Galvanizing, Add	13.25	
			For High Strength Low Alloy A572-50 Steel, Add	6.66	
			For High Strength Low Alloy A588 Steel, Add	14.81	
			For Each Additional Top Copes >2, Add	0.48	
			For Structural Tees, WT, MT Or ST, Deduct	-21.97	
			For Skewed Or Sloped Connections, Add	8.89	
05 12 23 00-0353	LF		W10 x 19 A992/A36 Structural Beam Or Girder	69.33	24.58
			For Hot Dip Galvanizing, Add	11.98	
			For High Strength Low Alloy A572-50 Steel, Add	6.24	
			For High Strength Low Alloy A588 Steel, Add	13.87	
			For Each Additional Top Copes >2, Add	0.43	
			For Structural Tees, WT, MT Or ST, Deduct	-20.34	
			For Skewed Or Sloped Connections, Add	8.32	
05 12 23 00-0354	LF		W10 x 17 A992/A36 Structural Beam Or Girder	66.01	24.45
			For Hot Dip Galvanizing, Add	11.09	
			For High Strength Low Alloy A572-50 Steel, Add	5.94	
			For High Strength Low Alloy A588 Steel, Add	13.20	
			For Each Additional Top Copes >2, Add	0.40	
			For Structural Tees, WT, MT Or ST, Deduct	-19.20	
			For Skewed Or Sloped Connections, Add	7.92	
05 12 23 00-0355	LF		W10 x 15 A992/A36 Structural Beam Or Girder	62.87	24.17
			For Hot Dip Galvanizing, Add	10.26	
			For High Strength Low Alloy A572-50 Steel, Add	5.66	
			For High Strength Low Alloy A588 Steel, Add	12.57	
			For Each Additional Top Copes >2, Add	0.37	
			For Structural Tees, WT, MT Or ST, Deduct	-18.12	
			For Skewed Or Sloped Connections, Add	7.54	
05 12 23 00-0356	LF		W10 x 12 A992/A36 Structural Beam Or Girder	58.14	24.17
			For Hot Dip Galvanizing, Add	8.98	
			For High Strength Low Alloy A572-50 Steel, Add	5.23	
			For High Strength Low Alloy A588 Steel, Add	11.63	
			For Each Additional Top Copes >2, Add	0.32	
			For Structural Tees, WT, MT Or ST, Deduct	-16.48	
			For Skewed Or Sloped Connections, Add	6.98	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
05 12 23 00-0357	LF W8 x 35 A992/A36 Structural Beam Or Girder		94.97	25.64
	For Hot Dip Galvanizing, Add		18.80	
	For High Strength Low Alloy A572-50 Steel, Add		8.55	
	For High Strength Low Alloy A588 Steel, Add		18.99	
	For Each Additional Top Copes >2, Add		0.68	
	For Structural Tees, WT, MT Or ST, Deduct		-29.16	
	For Skewed Or Sloped Connections, Add		11.40	
05 12 23 00-0358	LF W8 x 31 A992/A36 Structural Beam Or Girder		88.52	25.24
	For Hot Dip Galvanizing, Add		17.08	
	For High Strength Low Alloy A572-50 Steel, Add		7.97	
	For High Strength Low Alloy A588 Steel, Add		17.70	
	For Each Additional Top Copes >2, Add		0.62	
	For Structural Tees, WT, MT Or ST, Deduct		-26.94	
	For Skewed Or Sloped Connections, Add		10.62	
05 12 23 00-0359	LF W8 x 28 A992/A36 Structural Beam Or Girder		82.32	23.78
	For Hot Dip Galvanizing, Add		15.80	
	For High Strength Low Alloy A572-50 Steel, Add		7.41	
	For High Strength Low Alloy A588 Steel, Add		16.46	
	For Each Additional Top Copes >2, Add		0.57	
	For Structural Tees, WT, MT Or ST, Deduct		-25.01	
	For Skewed Or Sloped Connections, Add		9.88	
05 12 23 00-0360	LF W8 x 24 A992/A36 Structural Beam Or Girder		75.09	22.32
	For Hot Dip Galvanizing, Add		14.24	
	For High Strength Low Alloy A572-50 Steel, Add		6.76	
	For High Strength Low Alloy A588 Steel, Add		15.02	
	For Each Additional Top Copes >2, Add		0.51	
	For Structural Tees, WT, MT Or ST, Deduct		-22.71	
	For Skewed Or Sloped Connections, Add		9.01	
05 12 23 00-0361	LF W8 x 21 A992/A36 Structural Beam Or Girder		69.87	20.72
	For Hot Dip Galvanizing, Add		13.23	
	For High Strength Low Alloy A572-50 Steel, Add		6.29	
	For High Strength Low Alloy A588 Steel, Add		13.97	
	For Each Additional Top Copes >2, Add		0.48	
	For Structural Tees, WT, MT Or ST, Deduct		-21.13	
	For Skewed Or Sloped Connections, Add		8.38	
05 12 23 00-0362	LF W8 x 18 A992/A36 Structural Beam Or Girder		61.20	19.26
	For Hot Dip Galvanizing, Add		11.27	
	For High Strength Low Alloy A572-50 Steel, Add		5.51	
	For High Strength Low Alloy A588 Steel, Add		12.24	
	For Each Additional Top Copes >2, Add		0.41	
	For Structural Tees, WT, MT Or ST, Deduct		-18.33	
	For Skewed Or Sloped Connections, Add		7.34	
05 12 23 00-0363	LF W8 x 10 A992/A36 Structural Beam Or Girder		36.29	13.82
	For Hot Dip Galvanizing, Add		6.02	
	For High Strength Low Alloy A572-50 Steel, Add		3.27	
	For High Strength Low Alloy A588 Steel, Add		7.26	
	For Each Additional Top Copes >2, Add		0.22	
	For Structural Tees, WT, MT Or ST, Deduct		-10.51	
	For Skewed Or Sloped Connections, Add		4.35	
05 12 23 00-0364	LF W6 x 9 A992/A36 Structural Beam Or Girder		33.36	11.29
	For Hot Dip Galvanizing, Add		5.94	
	For High Strength Low Alloy A572-50 Steel, Add		3.00	
	For High Strength Low Alloy A588 Steel, Add		6.67	
	For Each Additional Top Copes >2, Add		0.21	
	For Structural Tees, WT, MT Or ST, Deduct		-9.88	
	For Skewed Or Sloped Connections, Add		4.00	
05 12 23 00-0365	A992/A36 Structural Steel, M Shapes (05 12 23 00-0147)			
	Note: Includes material delivery and erection.			
05 12 23 00-0366	LF M14 x 18 A992/A36 Structural Steel.....		63.37	17.67
	For Hot Dip Galvanizing, Add		12.36	
	For High Strength Low Alloy A572-50 Steel, Add		5.70	
	For High Strength Low Alloy A588 Grade B Steel, Add		12.67	
05 12 23 00-0367	LF M12 x 11.8 A992/A36 Structural Steel.....		45.85	15.62
	For Hot Dip Galvanizing, Add		8.10	
	For High Strength Low Alloy A572-50 Steel, Add		4.13	
	For High Strength Low Alloy A588 Grade B Steel, Add		9.17	
05 12 23 00-0368	LF M10 x 9 A992/A36 Structural Steel.....		35.64	12.54
	For Hot Dip Galvanizing, Add		6.18	
	For High Strength Low Alloy A572-50 Steel, Add		3.21	
	For High Strength Low Alloy A588 Grade B Steel, Add		7.13	
05 12 23 00-0369	LF M8 x 6.5 A992/A36 Structural Steel.....		25.73	9.06
	For Hot Dip Galvanizing, Add		4.46	
	For High Strength Low Alloy A572-50 Steel, Add		2.32	
	For High Strength Low Alloy A588 Grade B Steel, Add		5.15	
05 12 23 00-0370	LF M6 x 20 A992/A36 Structural Steel.....		72.07	21.39
	For Hot Dip Galvanizing, Add		13.73	
	For High Strength Low Alloy A572-50 Steel, Add		6.49	
	For High Strength Low Alloy A588 Grade B Steel, Add		14.41	
05 12 23 00-0371	LF M6 x 4.4 A992/A36 Structural Steel.....		17.41	6.12
	For Hot Dip Galvanizing, Add		3.02	
	For High Strength Low Alloy A572-50 Steel, Add		1.57	
	For High Strength Low Alloy A588 Grade B Steel, Add		3.48	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0372	LF		M5 x 18.9 A992/A36 Structural Steel.....	69.53	21.39
			For Hot Dip Galvanizing, Add	12.95	
			For High Strength Low Alloy A572-50 Steel, Add	6.26	
			For High Strength Low Alloy A588 Grade B Steel, Add	13.91	
05 12 23 00-0373	LF		M4 x 13 A992/A36 Structural Steel.....	57.52	20.99
			For Hot Dip Galvanizing, Add	9.77	
			For High Strength Low Alloy A572-50 Steel, Add	5.18	
			For High Strength Low Alloy A588 Grade B Steel, Add	11.50	
05 12 23 00-0374 A992/A36 Structural Steel, S Shapes (05 12 23 00-0147)					
Note: Includes material delivery and erection.					
05 12 23 00-0375	LF		S24 x 121 A992/A36 Structural Steel.....	379.00	89.47
			For Hot Dip Galvanizing, Add	78.70	
			For High Strength Low Alloy A572-50 Steel, Add	34.11	
			For High Strength Low Alloy A588 Grade B Steel, Add	75.80	
05 12 23 00-0376	LF		S24 x 106 A992/A36 Structural Steel.....	336.41	82.51
			For Hot Dip Galvanizing, Add	68.94	
			For High Strength Low Alloy A572-50 Steel, Add	30.28	
			For High Strength Low Alloy A588 Grade B Steel, Add	67.28	
05 12 23 00-0377	LF		S24 x 100 A992/A36 Structural Steel.....	321.74	81.93
			For Hot Dip Galvanizing, Add	65.04	
			For High Strength Low Alloy A572-50 Steel, Add	28.96	
			For High Strength Low Alloy A588 Grade B Steel, Add	64.35	
05 12 23 00-0378	LF		S24 x 90 A992/A36 Structural Steel.....	293.71	77.61
			For Hot Dip Galvanizing, Add	58.54	
			For High Strength Low Alloy A572-50 Steel, Add	26.43	
			For High Strength Low Alloy A588 Grade B Steel, Add	58.74	
05 12 23 00-0379	LF		S24 x 80 A992/A36 Structural Steel.....	264.93	72.63
			For Hot Dip Galvanizing, Add	52.03	
			For High Strength Low Alloy A572-50 Steel, Add	23.84	
			For High Strength Low Alloy A588 Grade B Steel, Add	52.99	
05 12 23 00-0380	LF		S20 x 96 A992/A36 Structural Steel.....	308.87	78.65
			For Hot Dip Galvanizing, Add	62.44	
			For High Strength Low Alloy A572-50 Steel, Add	27.80	
			For High Strength Low Alloy A588 Grade B Steel, Add	61.77	
05 12 23 00-0381	LF		S20 x 86 A992/A36 Structural Steel.....	280.65	74.17
			For Hot Dip Galvanizing, Add	55.94	
			For High Strength Low Alloy A572-50 Steel, Add	25.26	
			For High Strength Low Alloy A588 Grade B Steel, Add	56.13	
05 12 23 00-0382	LF		S20 x 75 A992/A36 Structural Steel.....	248.37	68.09
			For Hot Dip Galvanizing, Add	48.78	
			For High Strength Low Alloy A572-50 Steel, Add	22.35	
			For High Strength Low Alloy A588 Grade B Steel, Add	49.67	
05 12 23 00-0383	LF		S20 x 66 A992/A36 Structural Steel.....	221.93	63.06
			For Hot Dip Galvanizing, Add	42.93	
			For High Strength Low Alloy A572-50 Steel, Add	19.97	
			For High Strength Low Alloy A588 Grade B Steel, Add	44.39	
05 12 23 00-0384	LF		S18 x 70 A992/A36 Structural Steel.....	235.39	66.89
			For Hot Dip Galvanizing, Add	45.53	
			For High Strength Low Alloy A572-50 Steel, Add	21.19	
			For High Strength Low Alloy A588 Grade B Steel, Add	47.08	
05 12 23 00-0385	LF		S18 x 54.7 A992/A36 Structural Steel.....	186.88	55.02
			For Hot Dip Galvanizing, Add	35.58	
			For High Strength Low Alloy A572-50 Steel, Add	16.82	
			For High Strength Low Alloy A588 Grade B Steel, Add	37.38	
05 12 23 00-0386	LF		S15 x 50 A992/A36 Structural Steel.....	173.63	52.95
			For Hot Dip Galvanizing, Add	32.52	
			For High Strength Low Alloy A572-50 Steel, Add	15.63	
			For High Strength Low Alloy A588 Grade B Steel, Add	34.73	
05 12 23 00-0387	LF		S15 x 42.9 A992/A36 Structural Steel.....	151.52	47.81
			For Hot Dip Galvanizing, Add	27.90	
			For High Strength Low Alloy A572-50 Steel, Add	13.64	
			For High Strength Low Alloy A588 Grade B Steel, Add	30.30	
05 12 23 00-0388	LF		S12 x 50 A992/A36 Structural Steel.....	170.81	50.30
			For Hot Dip Galvanizing, Add	32.52	
			For High Strength Low Alloy A572-50 Steel, Add	15.37	
			For High Strength Low Alloy A588 Grade B Steel, Add	34.16	
05 12 23 00-0389	LF		S12 x 40.8 A992/A36 Structural Steel.....	141.68	43.20
			For Hot Dip Galvanizing, Add	26.54	
			For High Strength Low Alloy A572-50 Steel, Add	12.75	
			For High Strength Low Alloy A588 Grade B Steel, Add	28.34	
05 12 23 00-0390	LF		S12 x 35 A992/A36 Structural Steel.....	123.62	39.01
			For Hot Dip Galvanizing, Add	22.76	
			For High Strength Low Alloy A572-50 Steel, Add	11.13	
			For High Strength Low Alloy A588 Grade B Steel, Add	24.72	
05 12 23 00-0391	LF		S12 x 31.8 A992/A36 Structural Steel.....	114.31	37.31
			For Hot Dip Galvanizing, Add	20.68	
			For High Strength Low Alloy A572-50 Steel, Add	10.29	
			For High Strength Low Alloy A588 Grade B Steel, Add	22.86	
05 12 23 00-0392	LF		S10 x 35 A992/A36 Structural Steel.....	125.81	41.07
			For Hot Dip Galvanizing, Add	22.76	
			For High Strength Low Alloy A572-50 Steel, Add	11.32	
			For High Strength Low Alloy A588 Grade B Steel, Add	25.16	



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

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 12 23 00-0393	LF	S10 x 25.4 A992/A36 Structural Steel	92.98	31.37
		For Hot Dip Galvanizing, Add	16.52	
		For High Strength Low Alloy A572-50 Steel, Add	8.37	
		For High Strength Low Alloy A588 Grade B Steel, Add	18.60	
05 12 23 00-0394	LF	S8 x 23 A992/A36 Structural Steel	84.20	28.40
		For Hot Dip Galvanizing, Add	14.96	
		For High Strength Low Alloy A572-50 Steel, Add	7.58	
		For High Strength Low Alloy A588 Grade B Steel, Add	16.84	
05 12 23 00-0395	LF	S8 x 18.4 A992/A36 Structural Steel	68.64	23.92
		For Hot Dip Galvanizing, Add	11.97	
		For High Strength Low Alloy A572-50 Steel, Add	6.18	
		For High Strength Low Alloy A588 Grade B Steel, Add	13.73	
05 12 23 00-0396	LF	S7 x 20 A992/A36 Structural Steel	74.60	26.00
		For Hot Dip Galvanizing, Add	13.01	
		For High Strength Low Alloy A572-50 Steel, Add	6.71	
		For High Strength Low Alloy A588 Grade B Steel, Add	14.92	
05 12 23 00-0397	LF	S7 x 15.3 A992/A36 Structural Steel	58.18	20.94
		For Hot Dip Galvanizing, Add	9.95	
		For High Strength Low Alloy A572-50 Steel, Add	5.24	
		For High Strength Low Alloy A588 Grade B Steel, Add	11.64	
05 12 23 00-0398	LF	S6 x 17.25 A992/A36 Structural Steel	64.35	22.43
		For Hot Dip Galvanizing, Add	11.22	
		For High Strength Low Alloy A572-50 Steel, Add	5.79	
		For High Strength Low Alloy A588 Grade B Steel, Add	12.87	
05 12 23 00-0399	LF	S6 x 12.5 A992/A36 Structural Steel	55.35	20.72
		For Hot Dip Galvanizing, Add	9.20	
		For High Strength Low Alloy A572-50 Steel, Add	4.98	
		For High Strength Low Alloy A588 Grade B Steel, Add	11.07	
05 12 23 00-0400	LF	S5 x 14.75 A992/A36 Structural Steel	58.81	21.12
		For Hot Dip Galvanizing, Add	10.09	
		For High Strength Low Alloy A572-50 Steel, Add	5.29	
		For High Strength Low Alloy A588 Grade B Steel, Add	11.76	
05 12 23 00-0401	LF	S5 x 10 A992/A36 Structural Steel	50.26	20.59
		For Hot Dip Galvanizing, Add	7.83	
		For High Strength Low Alloy A572-50 Steel, Add	4.52	
		For High Strength Low Alloy A588 Grade B Steel, Add	10.05	
05 12 23 00-0402	LF	S4 x 9.5 A992/A36 Structural Steel	48.96	20.59
		For Hot Dip Galvanizing, Add	7.47	
		For High Strength Low Alloy A572-50 Steel, Add	4.41	
		For High Strength Low Alloy A588 Grade B Steel, Add	9.79	
05 12 23 00-0403	LF	S4 x 7.7 A992/A36 Structural Steel	45.92	20.59
		For Hot Dip Galvanizing, Add	6.66	
		For High Strength Low Alloy A572-50 Steel, Add	4.13	
		For High Strength Low Alloy A588 Grade B Steel, Add	9.18	
05 12 23 00-0404	LF	S3 x 7.5 A992/A36 Structural Steel	45.63	20.59
		For Hot Dip Galvanizing, Add	6.58	
		For High Strength Low Alloy A572-50 Steel, Add	4.11	
		For High Strength Low Alloy A588 Grade B Steel, Add	9.13	
05 12 23 00-0405	LF	S3 x 5.7 A992/A36 Structural Steel	42.01	20.46
		For Hot Dip Galvanizing, Add	5.61	
		For High Strength Low Alloy A572-50 Steel, Add	3.78	
		For High Strength Low Alloy A588 Grade B Steel, Add	8.40	
05 12 23 00-0406		A992/A36 Structural Steel, HP Shapes (05 12 23 00-0147)		
		Note: Includes material delivery and erection.		
05 12 23 00-0407	LF	HP14 x 117 A992/A36 Structural Steel	229.69	26.51
		For Hot Dip Galvanizing, Add	55.90	
		For High Strength Low Alloy A572-50 Steel, Add	20.67	
		For High Strength Low Alloy A588 Grade B Steel, Add	45.94	
05 12 23 00-0408	LF	HP14 x 102 A992/A36 Structural Steel	201.17	24.67
		For Hot Dip Galvanizing, Add	48.53	
		For High Strength Low Alloy A572-50 Steel, Add	18.11	
		For High Strength Low Alloy A588 Grade B Steel, Add	40.23	
05 12 23 00-0409	LF	HP14 x 89 A992/A36 Structural Steel	179.39	23.13
		For Hot Dip Galvanizing, Add	42.93	
		For High Strength Low Alloy A572-50 Steel, Add	16.15	
		For High Strength Low Alloy A588 Grade B Steel, Add	35.88	
05 12 23 00-0410	LF	HP14 x 73 A992/A36 Structural Steel	148.86	21.81
		For Hot Dip Galvanizing, Add	34.86	
		For High Strength Low Alloy A572-50 Steel, Add	13.40	
		For High Strength Low Alloy A588 Grade B Steel, Add	29.77	
05 12 23 00-0411	LF	HP13 x 100 A992/A36 Structural Steel	197.23	24.18
		For Hot Dip Galvanizing, Add	47.58	
		For High Strength Low Alloy A572-50 Steel, Add	17.75	
		For High Strength Low Alloy A588 Grade B Steel, Add	39.45	
05 12 23 00-0412	LF	HP13 x 87 A992/A36 Structural Steel	175.35	22.62
		For Hot Dip Galvanizing, Add	41.97	
		For High Strength Low Alloy A572-50 Steel, Add	15.78	
		For High Strength Low Alloy A588 Grade B Steel, Add	35.07	
05 12 23 00-0413	LF	HP13 x 73 A992/A36 Structural Steel	148.86	21.81
		For Hot Dip Galvanizing, Add	34.86	
		For High Strength Low Alloy A572-50 Steel, Add	13.40	
		For High Strength Low Alloy A588 Grade B Steel, Add	29.77	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0414	LF	HP13 x 60 A992/A36 Structural Steel.....	126.44	20.90
		For Hot Dip Galvanizing, Add	28.91	
		For High Strength Low Alloy A572-50 Steel, Add	11.38	
		For High Strength Low Alloy A588 Grade B Steel, Add	25.29	
05 12 23 00-0415	LF	HP12 x 84 A992/A36 Structural Steel.....	165.77	23.85
		For Hot Dip Galvanizing, Add	38.94	
		For High Strength Low Alloy A572-50 Steel, Add	14.92	
		For High Strength Low Alloy A588 Grade B Steel, Add	33.15	
05 12 23 00-0416	LF	HP12 x 74 A992/A36 Structural Steel.....	146.63	22.50
		For Hot Dip Galvanizing, Add	34.04	
		For High Strength Low Alloy A572-50 Steel, Add	13.20	
		For High Strength Low Alloy A588 Grade B Steel, Add	29.33	
05 12 23 00-0417	LF	HP12 x 63 A992/A36 Structural Steel.....	126.41	20.69
		For Hot Dip Galvanizing, Add	28.96	
		For High Strength Low Alloy A572-50 Steel, Add	11.38	
		For High Strength Low Alloy A588 Grade B Steel, Add	25.28	
05 12 23 00-0418	LF	HP12 x 53 A992/A36 Structural Steel.....	115.99	19.67
		For Hot Dip Galvanizing, Add	26.37	
		For High Strength Low Alloy A572-50 Steel, Add	10.44	
		For High Strength Low Alloy A588 Grade B Steel, Add	23.20	
05 12 23 00-0419	LF	HP10 x 57 A992/A36 Structural Steel.....	122.13	20.18
		For Hot Dip Galvanizing, Add	27.92	
		For High Strength Low Alloy A572-50 Steel, Add	10.99	
		For High Strength Low Alloy A588 Grade B Steel, Add	24.43	
05 12 23 00-0420	LF	HP10 x 42 A992/A36 Structural Steel.....	100.95	18.92
		For Hot Dip Galvanizing, Add	22.42	
		For High Strength Low Alloy A572-50 Steel, Add	9.09	
		For High Strength Low Alloy A588 Grade B Steel, Add	20.19	
05 12 23 00-0421	LF	HP8 x 36 A992/A36 Structural Steel.....	87.96	17.84
		For Hot Dip Galvanizing, Add	19.13	
		For High Strength Low Alloy A572-50 Steel, Add	7.92	
		For High Strength Low Alloy A588 Grade B Steel, Add	17.59	
05 12 23 00-0422		Lightweight Framing Steel Shapes (05 12 23)		
		Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0423		Angle Iron - L (05 12 23 00-0422)		
05 12 23 00-0424		1/8" Thick (05 12 23 00-0423)		
05 12 23 00-0425	LF	1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	2.94	1.81
		For >100 To 250, Deduct	-0.19	
		For >250 To 500, Deduct	-0.27	
		For >500 To 1,000, Deduct	-0.40	
		For >1,000, Deduct	-0.54	
		For 304 Stainless Steel, Add	1.48	
		For 316 Stainless Steel, Add	1.66	
		For Aluminum, Add	0.09	
		For Galvanized Steel, Add	0.32	
		For High Strength Steel (HSS), Add	0.59	
05 12 23 00-0426	LF	3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.40	2.05
		For >100 To 250, Deduct	-0.22	
		For >250 To 500, Deduct	-0.31	
		For >500 To 1,000, Deduct	-0.46	
		For >1,000, Deduct	-0.61	
		For 304 Stainless Steel, Add	1.88	
		For 316 Stainless Steel, Add	2.11	
		For Aluminum, Add	0.12	
		For Galvanized Steel, Add	0.41	
		For High Strength Steel (HSS), Add	0.68	
05 12 23 00-0427	LF	3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	3.83	2.26
		For >100 To 250, Deduct	-0.25	
		For >250 To 500, Deduct	-0.34	
		For >500 To 1,000, Deduct	-0.51	
		For >1,000, Deduct	-0.69	
		For 304 Stainless Steel, Add	2.31	
		For 316 Stainless Steel, Add	2.59	
		For Aluminum, Add	0.15	
		For Galvanized Steel, Add	0.50	
		For High Strength Steel (HSS), Add	0.77	
05 12 23 00-0428	LF	1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	4.30	2.52
		For >100 To 250, Deduct	-0.28	
		For >250 To 500, Deduct	-0.38	
		For >500 To 1,000, Deduct	-0.57	
		For >1,000, Deduct	-0.77	
		For 304 Stainless Steel, Add	2.68	
		For 316 Stainless Steel, Add	3.01	
		For Aluminum, Add	0.17	
		For Galvanized Steel, Add	0.58	
		For High Strength Steel (HSS), Add	0.86	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
05 12 23 00-0429	LF 1" x 1" x 1/8" Thick, Plain Steel Angle Iron	4.72		2.72
	For >100 To 250, Deduct	-0.30		
	For >250 To 500, Deduct	-0.42		
	For >500 To 1,000, Deduct	-0.63		
	For >1,000, Deduct	-0.83		
	For 304 Stainless Steel, Add	3.14		
	For 316 Stainless Steel, Add	3.52		
	For Aluminum, Add	0.20		
	For Galvanized Steel, Add	0.68		
	For High Strength Steel (HSS), Add	0.94		
05 12 23 00-0430	LF 1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron	5.65		3.19
	For >100 To 250, Deduct	-0.35		
	For >250 To 500, Deduct	-0.50		
	For >500 To 1,000, Deduct	-0.74		
	For >1,000, Deduct	-0.99		
	For 304 Stainless Steel, Add	3.96		
	For 316 Stainless Steel, Add	4.45		
	For Aluminum, Add	0.25		
	For Galvanized Steel, Add	0.86		
	For High Strength Steel (HSS), Add	1.13		
05 12 23 00-0431	LF 1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron	5.65		3.19
	For >100 To 250, Deduct	-0.35		
	For >250 To 500, Deduct	-0.50		
	For >500 To 1,000, Deduct	-0.74		
	For >1,000, Deduct	-0.99		
	For 304 Stainless Steel, Add	3.96		
	For 316 Stainless Steel, Add	4.45		
	For Aluminum, Add	0.25		
	For Galvanized Steel, Add	0.86		
	For High Strength Steel (HSS), Add	1.13		
05 12 23 00-0432	LF 1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.26		3.44
	For >100 To 250, Deduct	-0.39		
	For >250 To 500, Deduct	-0.54		
	For >500 To 1,000, Deduct	-0.81		
	For >1,000, Deduct	-1.08		
	For 304 Stainless Steel, Add	4.79		
	For 316 Stainless Steel, Add	5.38		
	For Aluminum, Add	0.30		
	For Galvanized Steel, Add	1.04		
	For High Strength Steel (HSS), Add	1.25		
05 12 23 00-0433	LF 1-3/4" x 1-3/4" x 1/8" Thick, Plain Steel Angle Iron	6.73		3.55
	For >100 To 250, Deduct	-0.41		
	For >250 To 500, Deduct	-0.57		
	For >500 To 1,000, Deduct	-0.86		
	For >1,000, Deduct	-1.15		
	For 304 Stainless Steel, Add	5.67		
	For 316 Stainless Steel, Add	6.37		
	For Aluminum, Add	0.36		
	For Galvanized Steel, Add	1.23		
	For High Strength Steel (HSS), Add	1.35		
05 12 23 00-0434	LF 2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron	6.73		3.55
	For >100 To 250, Deduct	-0.41		
	For >250 To 500, Deduct	-0.57		
	For >500 To 1,000, Deduct	-0.86		
	For >1,000, Deduct	-1.15		
	For 304 Stainless Steel, Add	5.67		
	For 316 Stainless Steel, Add	6.37		
	For Aluminum, Add	0.36		
	For Galvanized Steel, Add	1.23		
	For High Strength Steel (HSS), Add	1.35		
05 12 23 00-0435	LF 2" x 2" x 1/8" Thick, Plain Steel Angle Iron	7.17		3.67
	For >100 To 250, Deduct	-0.42		
	For >250 To 500, Deduct	-0.60		
	For >500 To 1,000, Deduct	-0.90		
	For >1,000, Deduct	-1.21		
	For 304 Stainless Steel, Add	6.50		
	For 316 Stainless Steel, Add	7.30		
	For Aluminum, Add	0.41		
	For Galvanized Steel, Add	1.41		
	For High Strength Steel (HSS), Add	1.43		
05 12 23 00-0436	3/16" Thick (05 12 23 00-0423)			
05 12 23 00-0437	LF 1" x 1" x 3/16" Thick, Plain Steel Angle Iron	5.43		2.87
	For >100 To 250, Deduct	-0.33		
	For >250 To 500, Deduct	-0.46		
	For >500 To 1,000, Deduct	-0.69		
	For >1,000, Deduct	-0.93		
	For 304 Stainless Steel, Add	4.56		
	For 316 Stainless Steel, Add	5.12		
	For Aluminum, Add	0.29		
	For Galvanized Steel, Add	0.99		
	For High Strength Steel (HSS), Add	1.09		

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

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 12 23 00-0438	LF	1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.55	3.38	
		For >100 To 250, Deduct	-0.39		
		For >250 To 500, Deduct	-0.55		
		For >500 To 1,000, Deduct	-0.83		
		For >1,000, Deduct	-1.11		
		For 304 Stainless Steel, Add	5.81		
		For 316 Stainless Steel, Add	6.53		
		For Aluminum, Add	0.37		
		For Galvanized Steel, Add	1.26		
		For High Strength Steel (HSS), Add	1.31		
05 12 23 00-0439	LF	1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.55	3.38	
		For >100 To 250, Deduct	-0.39		
		For >250 To 500, Deduct	-0.55		
		For >500 To 1,000, Deduct	-0.83		
		For >1,000, Deduct	-1.11		
		For 304 Stainless Steel, Add	5.81		
		For 316 Stainless Steel, Add	6.53		
		For Aluminum, Add	0.37		
		For Galvanized Steel, Add	1.26		
		For High Strength Steel (HSS), Add	1.31		
05 12 23 00-0440	LF	1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.31	3.62	
		For >100 To 250, Deduct	-0.42		
		For >250 To 500, Deduct	-0.61		
		For >500 To 1,000, Deduct	-0.91		
		For >1,000, Deduct	-1.21		
		For 304 Stainless Steel, Add	7.07		
		For 316 Stainless Steel, Add	7.94		
		For Aluminum, Add	0.45		
		For Galvanized Steel, Add	1.54		
		For High Strength Steel (HSS), Add	1.46		
05 12 23 00-0441	LF	1-3/4" x 1-3/4" x 3/16" Thick, Plain Steel Angle Iron	7.93	3.75	
		For >100 To 250, Deduct	-0.45		
		For >250 To 500, Deduct	-0.65		
		For >500 To 1,000, Deduct	-0.97		
		For >1,000, Deduct	-1.29		
		For 304 Stainless Steel, Add	8.35		
		For 316 Stainless Steel, Add	9.38		
		For Aluminum, Add	0.53		
		For Galvanized Steel, Add	1.82		
		For High Strength Steel (HSS), Add	1.59		
05 12 23 00-0442	LF	2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.93	3.75	
		For >100 To 250, Deduct	-0.45		
		For >250 To 500, Deduct	-0.65		
		For >500 To 1,000, Deduct	-0.97		
		For >1,000, Deduct	-1.29		
		For 304 Stainless Steel, Add	8.35		
		For 316 Stainless Steel, Add	9.38		
		For Aluminum, Add	0.53		
		For Galvanized Steel, Add	1.82		
		For High Strength Steel (HSS), Add	1.59		
05 12 23 00-0443	LF	2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.54	3.88	
		For >100 To 250, Deduct	-0.47		
		For >250 To 500, Deduct	-0.69		
		For >500 To 1,000, Deduct	-1.03		
		For >1,000, Deduct	-1.37		
		For 304 Stainless Steel, Add	9.60		
		For 316 Stainless Steel, Add	10.78		
		For Aluminum, Add	0.61		
		For Galvanized Steel, Add	2.09		
		For High Strength Steel (HSS), Add	1.71		
05 12 23 00-0444	LF	2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.35	4.15	
		For >100 To 250, Deduct	-0.51		
		For >250 To 500, Deduct	-0.75		
		For >500 To 1,000, Deduct	-1.12		
		For >1,000, Deduct	-1.49		
		For 304 Stainless Steel, Add	10.83		
		For 316 Stainless Steel, Add	12.16		
		For Aluminum, Add	0.68		
		For Galvanized Steel, Add	2.36		
		For High Strength Steel (HSS), Add	1.87		
05 12 23 00-0445	LF	2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.20	4.46	
		For >100 To 250, Deduct	-0.55		
		For >250 To 500, Deduct	-0.81		
		For >500 To 1,000, Deduct	-1.21		
		For >1,000, Deduct	-1.61		
		For 304 Stainless Steel, Add	12.14		
		For 316 Stainless Steel, Add	13.63		
		For Aluminum, Add	0.77		
		For Galvanized Steel, Add	2.64		
		For High Strength Steel (HSS), Add	2.04		



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0446	LF		3" x 2" x 3/16" Thick, Plain Steel Angle Iron	10.19	4.46
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.81	
			For >500 To 1,000, Deduct	-1.21	
			For >1,000, Deduct	-1.61	
			For 304 Stainless Steel, Add	12.11	
			For 316 Stainless Steel, Add	13.60	
			For Aluminum, Add	0.77	
			For Galvanized Steel, Add	2.64	
			For High Strength Steel (HSS), Add	2.04	
05 12 23 00-0447	LF		3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	11.25	4.92
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.34	
			For >1,000, Deduct	-1.78	
			For 304 Stainless Steel, Add	13.37	
			For 316 Stainless Steel, Add	15.01	
			For Aluminum, Add	0.84	
			For Galvanized Steel, Add	2.91	
			For High Strength Steel (HSS), Add	2.25	
05 12 23 00-0448	LF		3" x 3" x 3/16" Thick, Plain Steel Angle Iron	12.31	5.39
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-0.97	
			For >500 To 1,000, Deduct	-1.46	
			For >1,000, Deduct	-1.95	
			For 304 Stainless Steel, Add	14.62	
			For 316 Stainless Steel, Add	16.42	
			For Aluminum, Add	0.92	
			For Galvanized Steel, Add	3.18	
			For High Strength Steel (HSS), Add	2.46	
05 12 23 00-0449 1/4" Thick (05 12 23 00-0423)					
05 12 23 00-0450	LF		1" x 1" x 1/4" Thick, Plain Steel Angle Iron	6.48	3.32
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.55	
			For >500 To 1,000, Deduct	-0.82	
			For >1,000, Deduct	-1.09	
			For 304 Stainless Steel, Add	5.81	
			For 316 Stainless Steel, Add	6.53	
			For Aluminum, Add	0.37	
			For Galvanized Steel, Add	1.26	
			For High Strength Steel (HSS), Add	1.30	
05 12 23 00-0451	LF		1-1/4" x 1-1/4" x 1/4" Thick, Plain Steel Angle Iron	7.39	3.57
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.61	
			For >500 To 1,000, Deduct	-0.91	
			For >1,000, Deduct	-1.22	
			For 304 Stainless Steel, Add	7.50	
			For 316 Stainless Steel, Add	8.42	
			For Aluminum, Add	0.47	
			For Galvanized Steel, Add	1.63	
			For High Strength Steel (HSS), Add	1.48	
05 12 23 00-0452	LF		1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.38	3.57
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.61	
			For >500 To 1,000, Deduct	-0.91	
			For >1,000, Deduct	-1.21	
			For 304 Stainless Steel, Add	7.47	
			For 316 Stainless Steel, Add	8.38	
			For Aluminum, Add	0.47	
			For Galvanized Steel, Add	1.62	
			For High Strength Steel (HSS), Add	1.48	
05 12 23 00-0453	LF		1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	8.29	3.82
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.67	
			For >500 To 1,000, Deduct	-1.00	
			For >1,000, Deduct	-1.34	
			For 304 Stainless Steel, Add	9.12	
			For 316 Stainless Steel, Add	10.24	
			For Aluminum, Add	0.58	
			For Galvanized Steel, Add	1.98	
			For High Strength Steel (HSS), Add	1.66	
05 12 23 00-0454	LF		1-3/4" x 1-3/4" x 1/4" Thick, Plain Steel Angle Iron	9.11	3.94
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.08	
			For >1,000, Deduct	-1.44	
			For 304 Stainless Steel, Add	10.94	
			For 316 Stainless Steel, Add	12.29	
			For Aluminum, Add	0.69	
			For Galvanized Steel, Add	2.38	
			For High Strength Steel (HSS), Add	1.82	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0455	LF		2" x 1" x 1/4" Thick, Plain Steel Angle Iron.....	8.08	3.70
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.65	
			For >500 To 1,000, Deduct	-0.97	
			For >1,000, Deduct	-1.29	
			For 304 Stainless Steel, Add	9.21	
			For 316 Stainless Steel, Add	10.34	
			For Aluminum, Add	0.58	
			For Galvanized Steel, Add	2.00	
			For High Strength Steel (HSS), Add	1.62	
05 12 23 00-0456	LF		2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	9.09	3.94
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.08	
			For >1,000, Deduct	-1.44	
			For 304 Stainless Steel, Add	10.89	
			For 316 Stainless Steel, Add	12.22	
			For Aluminum, Add	0.69	
			For Galvanized Steel, Add	2.37	
			For High Strength Steel (HSS), Add	1.82	
05 12 23 00-0457	LF		2" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	9.83	4.07
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.14	
			For >1,000, Deduct	-1.53	
			For 304 Stainless Steel, Add	12.54	
			For 316 Stainless Steel, Add	14.08	
			For Aluminum, Add	0.79	
			For Galvanized Steel, Add	2.73	
			For High Strength Steel (HSS), Add	1.97	
05 12 23 00-0458	LF		2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.03	4.52
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.85	
			For >500 To 1,000, Deduct	-1.28	
			For >1,000, Deduct	-1.71	
			For 304 Stainless Steel, Add	14.28	
			For 316 Stainless Steel, Add	16.03	
			For Aluminum, Add	0.90	
			For Galvanized Steel, Add	3.11	
			For High Strength Steel (HSS), Add	2.21	
05 12 23 00-0459	LF		2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	12.26	4.95
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.41	
			For >1,000, Deduct	-1.89	
			For 304 Stainless Steel, Add	16.13	
			For 316 Stainless Steel, Add	18.11	
			For Aluminum, Add	1.02	
			For Galvanized Steel, Add	3.51	
			For High Strength Steel (HSS), Add	2.45	
05 12 23 00-0460	LF		3" x 2" x 1/4" Thick, Plain Steel Angle Iron.....	12.26	4.95
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.41	
			For >1,000, Deduct	-1.89	
			For 304 Stainless Steel, Add	16.13	
			For 316 Stainless Steel, Add	18.11	
			For Aluminum, Add	1.02	
			For Galvanized Steel, Add	3.51	
			For High Strength Steel (HSS), Add	2.45	
05 12 23 00-0461	LF		3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	13.54	5.49
			For >100 To 250, Deduct	-0.70	
			For >250 To 500, Deduct	-1.04	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.09	
			For 304 Stainless Steel, Add	17.73	
			For 316 Stainless Steel, Add	19.90	
			For Aluminum, Add	1.12	
			For Galvanized Steel, Add	3.86	
			For High Strength Steel (HSS), Add	2.71	
05 12 23 00-0462	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	14.80	6.03
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.14	
			For >500 To 1,000, Deduct	-1.71	
			For >1,000, Deduct	-2.28	
			For 304 Stainless Steel, Add	19.27	
			For 316 Stainless Steel, Add	21.63	
			For Aluminum, Add	1.22	
			For Galvanized Steel, Add	4.19	
			For High Strength Steel (HSS), Add	2.96	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0463	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	16.10	6.49
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.24	
			For >500 To 1,000, Deduct	-1.86	
			For >1,000, Deduct	-2.48	
			For 304 Stainless Steel, Add	21.23	
			For 316 Stainless Steel, Add	23.84	
			For Aluminum, Add	1.34	
			For Galvanized Steel, Add	4.62	
			For High Strength Steel (HSS), Add	3.22	
05 12 23 00-0464	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.05	0.68
			For >100 To 250, Deduct	-0.88	
			For >250 To 500, Deduct	-1.30	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.61	
			For 304 Stainless Steel, Add	22.86	
			For 316 Stainless Steel, Add	25.66	
			For Aluminum, Add	1.44	
			For Galvanized Steel, Add	4.97	
			For High Strength Steel (HSS), Add	3.41	
05 12 23 00-0465	LF		4" x 3" x 1/4" Thick, Plain Steel Angle Iron	17.05	6.78
			For >100 To 250, Deduct	-0.88	
			For >250 To 500, Deduct	-1.30	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.61	
			For 304 Stainless Steel, Add	22.86	
			For 316 Stainless Steel, Add	25.66	
			For Aluminum, Add	1.44	
			For Galvanized Steel, Add	4.97	
			For High Strength Steel (HSS), Add	3.41	
05 12 23 00-0466	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.96	7.06
			For >100 To 250, Deduct	-0.92	
			For >250 To 500, Deduct	-1.37	
			For >500 To 1,000, Deduct	-2.05	
			For >1,000, Deduct	-2.74	
			For 304 Stainless Steel, Add	24.37	
			For 316 Stainless Steel, Add	27.36	
			For Aluminum, Add	1.54	
			For Galvanized Steel, Add	5.30	
			For High Strength Steel (HSS), Add	3.59	
05 12 23 00-0467	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron	18.94	7.36
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.44	
			For >500 To 1,000, Deduct	-2.16	
			For >1,000, Deduct	-2.88	
			For 304 Stainless Steel, Add	26.02	
			For 316 Stainless Steel, Add	29.22	
			For Aluminum, Add	1.64	
			For Galvanized Steel, Add	5.66	
			For High Strength Steel (HSS), Add	3.79	
05 12 23 00-0468	LF		5" x 3" x 1/4" Thick, Plain Steel Angle Iron	18.94	7.36
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.44	
			For >500 To 1,000, Deduct	-2.16	
			For >1,000, Deduct	-2.88	
			For 304 Stainless Steel, Add	26.02	
			For 316 Stainless Steel, Add	29.22	
			For Aluminum, Add	1.64	
			For Galvanized Steel, Add	5.66	
			For High Strength Steel (HSS), Add	3.79	
05 12 23 00-0469	LF		5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	20.01	7.76
			For >100 To 250, Deduct	-1.02	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.28	
			For >1,000, Deduct	-3.04	
			For 304 Stainless Steel, Add	27.53	
			For 316 Stainless Steel, Add	30.91	
			For Aluminum, Add	1.74	
			For Galvanized Steel, Add	5.99	
			For High Strength Steel (HSS), Add	4.00	
05 12 23 00-0470			5/16" Thick (05 12 23 00-0423)		
05 12 23 00-0471	LF		2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	13.21	5.25
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.01	
			For >500 To 1,000, Deduct	-1.52	
			For >1,000, Deduct	-2.02	
			For 304 Stainless Steel, Add	17.73	
			For 316 Stainless Steel, Add	19.90	
			For Aluminum, Add	1.12	
			For Galvanized Steel, Add	3.86	
			For High Strength Steel (HSS), Add	2.64	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0472	LF		2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	14.33	5.56
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.09	
			For >500 To 1,000, Deduct	-1.63	
			For >1,000, Deduct	-2.18	
			For 304 Stainless Steel, Add	19.69	
			For 316 Stainless Steel, Add	22.11	
			For Aluminum, Add	1.24	
			For Galvanized Steel, Add	4.28	
			For High Strength Steel (HSS), Add	2.87	
05 12 23 00-0473	LF		3" x 2" x 5/16" Thick, Plain Steel Angle Iron	14.33	5.56
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.09	
			For >500 To 1,000, Deduct	-1.63	
			For >1,000, Deduct	-2.18	
			For 304 Stainless Steel, Add	19.69	
			For 316 Stainless Steel, Add	22.11	
			For Aluminum, Add	1.24	
			For Galvanized Steel, Add	4.28	
			For High Strength Steel (HSS), Add	2.87	
05 12 23 00-0474	LF		3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	15.87	6.09
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.20	
			For >500 To 1,000, Deduct	-1.80	
			For >1,000, Deduct	-2.40	
			For 304 Stainless Steel, Add	22.06	
			For 316 Stainless Steel, Add	24.77	
			For Aluminum, Add	1.39	
			For Galvanized Steel, Add	4.80	
			For High Strength Steel (HSS), Add	3.17	
05 12 23 00-0475	LF		3" x 3" x 5/16" Thick, Plain Steel Angle Iron	17.27	6.63
			For >100 To 250, Deduct	-0.87	
			For >250 To 500, Deduct	-1.31	
			For >500 To 1,000, Deduct	-1.96	
			For >1,000, Deduct	-2.61	
			For 304 Stainless Steel, Add	24.05	
			For 316 Stainless Steel, Add	27.01	
			For Aluminum, Add	1.52	
			For Galvanized Steel, Add	5.23	
			For High Strength Steel (HSS), Add	3.45	
05 12 23 00-0476	LF		3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	18.42	6.96
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.39	
			For >500 To 1,000, Deduct	-2.08	
			For >1,000, Deduct	-2.77	
			For 304 Stainless Steel, Add	26.02	
			For 316 Stainless Steel, Add	29.22	
			For Aluminum, Add	1.64	
			For Galvanized Steel, Add	5.66	
			For High Strength Steel (HSS), Add	3.68	
05 12 23 00-0477	LF		3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	19.67	7.31
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.47	
			For >500 To 1,000, Deduct	-2.21	
			For >1,000, Deduct	-2.94	
			For 304 Stainless Steel, Add	28.30	
			For 316 Stainless Steel, Add	31.78	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.16	
			For High Strength Steel (HSS), Add	3.93	
05 12 23 00-0478	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron	19.67	7.31
			For >100 To 250, Deduct	-0.98	
			For >250 To 500, Deduct	-1.47	
			For >500 To 1,000, Deduct	-2.21	
			For >1,000, Deduct	-2.94	
			For 304 Stainless Steel, Add	28.30	
			For 316 Stainless Steel, Add	31.78	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.16	
			For High Strength Steel (HSS), Add	3.93	
05 12 23 00-0479	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.92	7.72
			For >100 To 250, Deduct	-1.04	
			For >250 To 500, Deduct	-1.56	
			For >500 To 1,000, Deduct	-2.34	
			For >1,000, Deduct	-3.12	
			For 304 Stainless Steel, Add	30.27	
			For 316 Stainless Steel, Add	33.98	
			For Aluminum, Add	1.91	
			For Galvanized Steel, Add	6.58	
			For High Strength Steel (HSS), Add	4.18	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0480	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron	22.10	8.06
			For >100 To 250, Deduct	-1.09	
			For >250 To 500, Deduct	-1.64	
			For >500 To 1,000, Deduct	-2.46	
			For >1,000, Deduct	-3.29	
			For 304 Stainless Steel, Add	32.32	
			For 316 Stainless Steel, Add	36.29	
			For Aluminum, Add	2.04	
			For Galvanized Steel, Add	7.03	
			For High Strength Steel (HSS), Add	4.42	
05 12 23 00-0481	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron	22.10	8.06
			For >100 To 250, Deduct	-1.09	
			For >250 To 500, Deduct	-1.64	
			For >500 To 1,000, Deduct	-2.46	
			For >1,000, Deduct	-3.29	
			For 304 Stainless Steel, Add	32.32	
			For 316 Stainless Steel, Add	36.29	
			For Aluminum, Add	2.04	
			For Galvanized Steel, Add	7.03	
			For High Strength Steel (HSS), Add	4.42	
05 12 23 00-0482	LF		5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	23.21	8.41
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.72	
			For >500 To 1,000, Deduct	-2.58	
			For >1,000, Deduct	-3.44	
			For 304 Stainless Steel, Add	34.20	
			For 316 Stainless Steel, Add	38.40	
			For Aluminum, Add	2.16	
			For Galvanized Steel, Add	7.44	
			For High Strength Steel (HSS), Add	4.64	
05 12 23 00-0483	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron	25.92	8.76
			For >100 To 250, Deduct	-1.23	
			For >250 To 500, Deduct	-1.88	
			For >500 To 1,000, Deduct	-2.82	
			For >1,000, Deduct	-3.76	
			For 304 Stainless Steel, Add	40.58	
			For 316 Stainless Steel, Add	45.57	
			For Aluminum, Add	2.56	
			For Galvanized Steel, Add	8.83	
			For High Strength Steel (HSS), Add	5.18	
05 12 23 00-0484	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	25.69	9.13
			For >100 To 250, Deduct	-1.25	
			For >250 To 500, Deduct	-1.89	
			For >500 To 1,000, Deduct	-2.84	
			For >1,000, Deduct	-3.79	
			For 304 Stainless Steel, Add	38.53	
			For 316 Stainless Steel, Add	43.26	
			For Aluminum, Add	2.43	
			For Galvanized Steel, Add	8.38	
			For High Strength Steel (HSS), Add	5.14	
05 12 23 00-0485			3/8" Thick (05 12 23 00-0423)		
05 12 23 00-0486	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron	15.90	5.82
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.18	
			For >500 To 1,000, Deduct	-1.77	
			For >1,000, Deduct	-2.37	
			For 304 Stainless Steel, Add	23.20	
			For 316 Stainless Steel, Add	26.05	
			For Aluminum, Add	1.47	
			For Galvanized Steel, Add	5.05	
			For High Strength Steel (HSS), Add	3.18	
05 12 23 00-0487	LF		3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	17.54	6.31
			For >100 To 250, Deduct	-0.86	
			For >250 To 500, Deduct	-1.30	
			For >500 To 1,000, Deduct	-1.95	
			For >1,000, Deduct	-2.60	
			For 304 Stainless Steel, Add	26.02	
			For 316 Stainless Steel, Add	29.22	
			For Aluminum, Add	1.64	
			For Galvanized Steel, Add	5.66	
			For High Strength Steel (HSS), Add	3.51	
05 12 23 00-0488	LF		3" x 3" x 3/8" Thick, Plain Steel Angle Iron	18.98	6.79
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.40	
			For >500 To 1,000, Deduct	-2.10	
			For >1,000, Deduct	-2.80	
			For 304 Stainless Steel, Add	28.30	
			For 316 Stainless Steel, Add	31.78	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.16	
			For High Strength Steel (HSS), Add	3.80	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0489	LF		3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	20.23	6.97
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.48	
			For >500 To 1,000, Deduct	-2.21	
			For >1,000, Deduct	-2.95	
			For 304 Stainless Steel, Add	31.15	
			For 316 Stainless Steel, Add	34.98	
			For Aluminum, Add	1.97	
			For Galvanized Steel, Add	6.78	
			For High Strength Steel (HSS), Add	4.05	
05 12 23 00-0490	LF		3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	21.54	7.36
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.57	
			For >500 To 1,000, Deduct	-2.35	
			For >1,000, Deduct	-3.14	
			For 304 Stainless Steel, Add	33.43	
			For 316 Stainless Steel, Add	37.54	
			For Aluminum, Add	2.11	
			For Galvanized Steel, Add	7.27	
			For High Strength Steel (HSS), Add	4.31	
05 12 23 00-0491	LF		4" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	21.54	7.36
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.57	
			For >500 To 1,000, Deduct	-2.35	
			For >1,000, Deduct	-3.14	
			For 304 Stainless Steel, Add	33.43	
			For 316 Stainless Steel, Add	37.54	
			For Aluminum, Add	2.11	
			For Galvanized Steel, Add	7.27	
			For High Strength Steel (HSS), Add	4.31	
05 12 23 00-0492	LF		4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	23.24	8.01
			For >100 To 250, Deduct	-1.12	
			For >250 To 500, Deduct	-1.70	
			For >500 To 1,000, Deduct	-2.54	
			For >1,000, Deduct	-3.39	
			For 304 Stainless Steel, Add	35.77	
			For 316 Stainless Steel, Add	40.16	
			For Aluminum, Add	2.26	
			For Galvanized Steel, Add	7.78	
			For High Strength Steel (HSS), Add	4.65	
05 12 23 00-0493	LF		4" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	24.52	8.25
			For >100 To 250, Deduct	-1.16	
			For >250 To 500, Deduct	-1.78	
			For >500 To 1,000, Deduct	-2.66	
			For >1,000, Deduct	-3.55	
			For 304 Stainless Steel, Add	38.53	
			For 316 Stainless Steel, Add	43.26	
			For Aluminum, Add	2.43	
			For Galvanized Steel, Add	8.38	
			For High Strength Steel (HSS), Add	4.90	
05 12 23 00-0494	LF		5" x 3" x 3/8" Thick, Plain Steel Angle Iron.....	24.96	8.58
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.82	
			For >500 To 1,000, Deduct	-2.73	
			For >1,000, Deduct	-3.64	
			For 304 Stainless Steel, Add	38.53	
			For 316 Stainless Steel, Add	43.26	
			For Aluminum, Add	2.43	
			For Galvanized Steel, Add	8.38	
			For High Strength Steel (HSS), Add	4.99	
05 12 23 00-0495	LF		5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	26.68	9.25
			For >100 To 250, Deduct	-1.28	
			For >250 To 500, Deduct	-1.95	
			For >500 To 1,000, Deduct	-2.93	
			For >1,000, Deduct	-3.90	
			For 304 Stainless Steel, Add	40.90	
			For 316 Stainless Steel, Add	45.92	
			For Aluminum, Add	2.58	
			For Galvanized Steel, Add	8.90	
			For High Strength Steel (HSS), Add	5.34	
05 12 23 00-0496	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....	31.37	10.77
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-2.29	
			For >500 To 1,000, Deduct	-3.43	
			For >1,000, Deduct	-4.57	
			For 304 Stainless Steel, Add	48.48	
			For 316 Stainless Steel, Add	54.43	
			For Aluminum, Add	3.06	
			For Galvanized Steel, Add	10.55	
			For High Strength Steel (HSS), Add	6.27	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0497	LF 6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	29.49		10.02
	For >100 To 250, Deduct	-1.40		
	For >250 To 500, Deduct	-2.14		
	For >500 To 1,000, Deduct	-3.21		
	For >1,000, Deduct	-4.28		
	For 304 Stainless Steel, Add	46.00		
	For 316 Stainless Steel, Add	51.65		
	For Aluminum, Add	2.91		
	For Galvanized Steel, Add	10.01		
	For High Strength Steel (HSS), Add	5.90		
05 12 23 00-0498	LF 6" x 4" x 3/8" Thick, Plain Steel Angle Iron	31.37		10.77
	For >100 To 250, Deduct	-1.50		
	For >250 To 500, Deduct	-2.29		
	For >500 To 1,000, Deduct	-3.43		
	For >1,000, Deduct	-4.57		
	For 304 Stainless Steel, Add	48.48		
	For 316 Stainless Steel, Add	54.43		
	For Aluminum, Add	3.06		
	For Galvanized Steel, Add	10.55		
	For High Strength Steel (HSS), Add	6.27		
05 12 23 00-0499	LF 6" x 6" x 3/8" Thick, Plain Steel Angle Iron	37.84		12.93
	For >100 To 250, Deduct	-1.81		
	For >250 To 500, Deduct	-2.75		
	For >500 To 1,000, Deduct	-4.13		
	For >1,000, Deduct	-5.51		
	For 304 Stainless Steel, Add	58.74		
	For 316 Stainless Steel, Add	65.95		
	For Aluminum, Add	3.71		
	For Galvanized Steel, Add	12.78		
	For High Strength Steel (HSS), Add	7.57		
05 12 23 00-0500	LF 7" x 4" x 3/8" Thick, Plain Steel Angle Iron	34.61		11.85
	For >100 To 250, Deduct	-1.66		
	For >250 To 500, Deduct	-2.52		
	For >500 To 1,000, Deduct	-3.78		
	For >1,000, Deduct	-5.04		
	For 304 Stainless Steel, Add	53.58		
	For 316 Stainless Steel, Add	60.16		
	For Aluminum, Add	3.38		
	For Galvanized Steel, Add	11.66		
	For High Strength Steel (HSS), Add	6.92		
05 12 23 00-0501	1/2" Thick (05 12 23 00-0423)			
05 12 23 00-0502	LF 3" x 3" x 1/2" Thick, Plain Steel Angle Iron	22.25		6.93
	For >100 To 250, Deduct	-1.02		
	For >250 To 500, Deduct	-1.58		
	For >500 To 1,000, Deduct	-2.36		
	For >1,000, Deduct	-3.15		
	For 304 Stainless Steel, Add	37.05		
	For 316 Stainless Steel, Add	41.60		
	For Aluminum, Add	2.34		
	For Galvanized Steel, Add	8.06		
	For High Strength Steel (HSS), Add	4.45		
05 12 23 00-0503	LF 4" x 3" x 1/2" Thick, Plain Steel Angle Iron	26.27		8.20
	For >100 To 250, Deduct	-1.20		
	For >250 To 500, Deduct	-1.66		
	For >500 To 1,000, Deduct	-2.79		
	For >1,000, Deduct	-3.72		
	For 304 Stainless Steel, Add	43.75		
	For 316 Stainless Steel, Add	49.12		
	For Aluminum, Add	2.76		
	For Galvanized Steel, Add	9.52		
	For High Strength Steel (HSS), Add	5.25		
05 12 23 00-0504	LF 4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	28.16		8.78
	For >100 To 250, Deduct	-1.29		
	For >250 To 500, Deduct	-1.99		
	For >500 To 1,000, Deduct	-2.99		
	For >1,000, Deduct	-3.99		
	For 304 Stainless Steel, Add	46.91		
	For 316 Stainless Steel, Add	52.67		
	For Aluminum, Add	2.96		
	For Galvanized Steel, Add	10.21		
	For High Strength Steel (HSS), Add	5.63		
05 12 23 00-0505	LF 4" x 4" x 1/2" Thick, Plain Steel Angle Iron	30.29		9.45
	For >100 To 250, Deduct	-1.39		
	For >250 To 500, Deduct	-2.14		
	For >500 To 1,000, Deduct	-3.22		
	For >1,000, Deduct	-4.29		
	For 304 Stainless Steel, Add	50.45		
	For 316 Stainless Steel, Add	56.64		
	For Aluminum, Add	3.19		
	For Galvanized Steel, Add	10.97		
	For High Strength Steel (HSS), Add	6.06		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0506	LF		5" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	30.29	9.45
			For >100 To 250, Deduct	-1.39	
			For >250 To 500, Deduct	-2.14	
			For >500 To 1,000, Deduct	-3.22	
			For >1,000, Deduct	-4.29	
			For 304 Stainless Steel, Add	50.45	
			For 316 Stainless Steel, Add	56.64	
			For Aluminum, Add	3.19	
			For Galvanized Steel, Add	10.97	
			For High Strength Steel (HSS), Add	6.06	
05 12 23 00-0507	LF		5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	32.19	10.04
			For >100 To 250, Deduct	-1.47	
			For >250 To 500, Deduct	-2.28	
			For >500 To 1,000, Deduct	-3.42	
			For >1,000, Deduct	-4.56	
			For 304 Stainless Steel, Add	53.61	
			For 316 Stainless Steel, Add	60.19	
			For Aluminum, Add	3.39	
			For Galvanized Steel, Add	11.66	
			For High Strength Steel (HSS), Add	6.44	
05 12 23 00-0508	LF		5" x 5" x 1/2" Thick, Plain Steel Angle Iron.....	38.34	11.96
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.71	
			For >500 To 1,000, Deduct	-4.07	
			For >1,000, Deduct	-5.43	
			For 304 Stainless Steel, Add	63.84	
			For 316 Stainless Steel, Add	71.68	
			For Aluminum, Add	4.03	
			For Galvanized Steel, Add	13.89	
			For High Strength Steel (HSS), Add	7.67	
05 12 23 00-0509	LF		6" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	38.34	11.96
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.71	
			For >500 To 1,000, Deduct	-4.07	
			For >1,000, Deduct	-5.43	
			For 304 Stainless Steel, Add	63.84	
			For 316 Stainless Steel, Add	71.68	
			For Aluminum, Add	4.03	
			For Galvanized Steel, Add	13.89	
			For High Strength Steel (HSS), Add	7.67	
05 12 23 00-0510	LF		6" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	46.38	14.46
			For >100 To 250, Deduct	-2.12	
			For >250 To 500, Deduct	-3.28	
			For >500 To 1,000, Deduct	-4.92	
			For >1,000, Deduct	-6.57	
			For 304 Stainless Steel, Add	77.24	
			For 316 Stainless Steel, Add	86.72	
			For Aluminum, Add	4.88	
			For Galvanized Steel, Add	16.80	
			For High Strength Steel (HSS), Add	9.28	
05 12 23 00-0511	LF		7" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	42.34	13.21
			For >100 To 250, Deduct	-1.94	
			For >250 To 500, Deduct	-3.00	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000, Deduct	-5.99	
			For 304 Stainless Steel, Add	70.51	
			For 316 Stainless Steel, Add	79.17	
			For Aluminum, Add	4.45	
			For Galvanized Steel, Add	15.34	
			For High Strength Steel (HSS), Add	8.47	
05 12 23 00-0512	LF		8" x 4" x 1/2" Thick, Plain Steel Angle Iron.....	46.38	14.46
			For >100 To 250, Deduct	-2.12	
			For >250 To 500, Deduct	-3.28	
			For >500 To 1,000, Deduct	-4.92	
			For >1,000, Deduct	-6.57	
			For 304 Stainless Steel, Add	77.24	
			For 316 Stainless Steel, Add	86.72	
			For Aluminum, Add	4.88	
			For Galvanized Steel, Add	16.80	
			For High Strength Steel (HSS), Add	9.28	
05 12 23 00-0513	LF		8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	54.44	16.98
			For >100 To 250, Deduct	-2.49	
			For >250 To 500, Deduct	-3.85	
			For >500 To 1,000, Deduct	-5.78	
			For >1,000, Deduct	-7.71	
			For 304 Stainless Steel, Add	90.66	
			For 316 Stainless Steel, Add	101.79	
			For Aluminum, Add	5.73	
			For Galvanized Steel, Add	19.72	
			For High Strength Steel (HSS), Add	10.89	



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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0514	LF	8" x 8" x 1/2" Thick, Plain Steel Angle Iron	62.47	19.48
		For >100 To 250, Deduct	-2.86	
		For >250 To 500, Deduct	-4.42	
		For >500 To 1,000, Deduct	-6.63	
		For >1,000, Deduct	-8.84	
		For 304 Stainless Steel, Add	104.03	
		For 316 Stainless Steel, Add	116.80	
		For Aluminum, Add	6.57	
		For Galvanized Steel, Add	22.63	
		For High Strength Steel (HSS), Add	12.49	
05 12 23 00-0515 5/8" Thick (05 12 23 00-0423)				
05 12 23 00-0516	LF	4" x 4" x 5/8" Thick, Plain Steel Angle Iron	36.14	10.82
		For >100 To 250, Deduct	-1.63	
		For >250 To 500, Deduct	-2.53	
		For >500 To 1,000, Deduct	-3.79	
		For >1,000, Deduct	-5.06	
		For 316 Stainless Steel, Add	69.47	
		For Aluminum, Add	3.91	
		For Galvanized Steel, Add	13.46	
		For High Strength Steel (HSS), Add	7.23	
05 12 23 00-0517	LF	5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	38.69	11.58
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.71	
		For >500 To 1,000, Deduct	-4.06	
		For >1,000, Deduct	-5.41	
		For 316 Stainless Steel, Add	74.37	
		For Aluminum, Add	4.18	
		For Galvanized Steel, Add	14.41	
		For High Strength Steel (HSS), Add	7.74	
05 12 23 00-0518	LF	5" x 5" x 5/8" Thick, Plain Steel Angle Iron	46.04	13.79
		For >100 To 250, Deduct	-2.07	
		For >250 To 500, Deduct	-3.22	
		For >500 To 1,000, Deduct	-4.83	
		For >1,000, Deduct	-6.44	
		For 316 Stainless Steel, Add	88.48	
		For Aluminum, Add	4.98	
		For Galvanized Steel, Add	17.14	
		For High Strength Steel (HSS), Add	9.21	
05 12 23 00-0519	LF	6" x 4" x 5/8" Thick, Plain Steel Angle Iron	46.04	13.79
		For >100 To 250, Deduct	-2.07	
		For >250 To 500, Deduct	-3.22	
		For >500 To 1,000, Deduct	-4.83	
		For >1,000, Deduct	-6.44	
		For 316 Stainless Steel, Add	88.48	
		For Aluminum, Add	4.98	
		For Galvanized Steel, Add	17.14	
		For High Strength Steel (HSS), Add	9.21	
05 12 23 00-0520	LF	6" x 6" x 5/8" Thick, Plain Steel Angle Iron	55.72	16.69
		For >100 To 250, Deduct	-2.51	
		For >250 To 500, Deduct	-3.90	
		For >500 To 1,000, Deduct	-5.85	
		For >1,000, Deduct	-7.80	
		For 316 Stainless Steel, Add	107.10	
		For Aluminum, Add	6.02	
		For Galvanized Steel, Add	20.75	
		For High Strength Steel (HSS), Add	11.14	
05 12 23 00-0521	LF	7" x 4" x 5/8" Thick, Plain Steel Angle Iron	50.88	15.24
		For >100 To 250, Deduct	-2.29	
		For >250 To 500, Deduct	-3.56	
		For >500 To 1,000, Deduct	-5.34	
		For >1,000, Deduct	-7.12	
		For 316 Stainless Steel, Add	97.79	
		For Aluminum, Add	5.50	
		For Galvanized Steel, Add	18.95	
		For High Strength Steel (HSS), Add	10.18	
05 12 23 00-0522	LF	8" x 6" x 5/8" Thick, Plain Steel Angle Iron	65.61	19.66
		For >100 To 250, Deduct	-2.95	
		For >250 To 500, Deduct	-4.59	
		For >500 To 1,000, Deduct	-6.89	
		For >1,000, Deduct	-9.18	
		For 316 Stainless Steel, Add	126.11	
		For Aluminum, Add	7.09	
		For Galvanized Steel, Add	24.43	
		For High Strength Steel (HSS), Add	13.12	
05 12 23 00-0523	LF	8" x 8" x 5/8" Thick, Plain Steel Angle Iron	75.29	22.55
		For >100 To 250, Deduct	-3.39	
		For >250 To 500, Deduct	-5.27	
		For >500 To 1,000, Deduct	-7.90	
		For >1,000, Deduct	-10.54	
		For 316 Stainless Steel, Add	144.70	
		For Aluminum, Add	8.14	
		For Galvanized Steel, Add	28.04	
		For High Strength Steel (HSS), Add	15.06	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0524	3/4" Thick (05 12 23 00-0423)			
05 12 23 00-0525	LF 4" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	41.55		11.97
	For >100 To 250, Deduct	-1.84		
	For >250 To 500, Deduct	-2.88		
	For >500 To 1,000, Deduct	-4.31		
	For >1,000, Deduct	-5.75		
	For 316 Stainless Steel, Add	81.89		
	For Aluminum, Add	4.61		
	For Galvanized Steel, Add	15.87		
	For High Strength Steel (HSS), Add	8.31		
05 12 23 00-0526	LF 5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	44.45		12.80
	For >100 To 250, Deduct	-1.96		
	For >250 To 500, Deduct	-3.08		
	For >500 To 1,000, Deduct	-4.61		
	For >1,000, Deduct	-6.15		
	For 316 Stainless Steel, Add	87.62		
	For Aluminum, Add	4.93		
	For Galvanized Steel, Add	16.98		
	For High Strength Steel (HSS), Add	8.89		
05 12 23 00-0527	LF 5" x 5" x 3/4" Thick, Plain Steel Angle Iron.....	52.98		15.26
	For >100 To 250, Deduct	-2.34		
	For >250 To 500, Deduct	-3.67		
	For >500 To 1,000, Deduct	-5.50		
	For >1,000, Deduct	-7.33		
	For 316 Stainless Steel, Add	104.45		
	For Aluminum, Add	5.88		
	For Galvanized Steel, Add	20.24		
	For High Strength Steel (HSS), Add	10.60		
05 12 23 00-0528	LF 6" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	52.98		15.26
	For >100 To 250, Deduct	-2.34		
	For >250 To 500, Deduct	-3.67		
	For >500 To 1,000, Deduct	-5.50		
	For >1,000, Deduct	-7.33		
	For 316 Stainless Steel, Add	104.45		
	For Aluminum, Add	5.88		
	For Galvanized Steel, Add	20.24		
	For High Strength Steel (HSS), Add	10.60		
05 12 23 00-0529	LF 6" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	64.44		18.55
	For >100 To 250, Deduct	-2.85		
	For >250 To 500, Deduct	-4.46		
	For >500 To 1,000, Deduct	-6.69		
	For >1,000, Deduct	-8.92		
	For 316 Stainless Steel, Add	127.01		
	For Aluminum, Add	7.14		
	For Galvanized Steel, Add	24.61		
	For High Strength Steel (HSS), Add	12.89		
05 12 23 00-0530	LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	58.82		16.94
	For >100 To 250, Deduct	-2.60		
	For >250 To 500, Deduct	-4.07		
	For >500 To 1,000, Deduct	-6.11		
	For >1,000, Deduct	-8.14		
	For 316 Stainless Steel, Add	115.94		
	For Aluminum, Add	6.52		
	For Galvanized Steel, Add	22.46		
	For High Strength Steel (HSS), Add	11.76		
05 12 23 00-0531	LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron.....	64.44		18.55
	For >100 To 250, Deduct	-2.85		
	For >250 To 500, Deduct	-4.46		
	For >500 To 1,000, Deduct	-6.69		
	For >1,000, Deduct	-8.92		
	For 316 Stainless Steel, Add	127.01		
	For Aluminum, Add	7.14		
	For Galvanized Steel, Add	24.61		
	For High Strength Steel (HSS), Add	12.89		
05 12 23 00-0532	LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron.....	75.89		21.85
	For >100 To 250, Deduct	-3.35		
	For >250 To 500, Deduct	-5.25		
	For >500 To 1,000, Deduct	-7.88		
	For >1,000, Deduct	-10.50		
	For 316 Stainless Steel, Add	149.60		
	For Aluminum, Add	8.42		
	For Galvanized Steel, Add	28.99		
	For High Strength Steel (HSS), Add	15.18		
05 12 23 00-0533	LF 8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	87.34		25.14
	For >100 To 250, Deduct	-3.86		
	For >250 To 500, Deduct	-6.04		
	For >500 To 1,000, Deduct	-9.07		
	For >1,000, Deduct	-12.09		
	For 316 Stainless Steel, Add	172.16		
	For Aluminum, Add	9.68		
	For Galvanized Steel, Add	33.36		
	For High Strength Steel (HSS), Add	17.47		

05 12 23 00-0534 7/8" Thick (05 12 23 00-0423)



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0535	LF		5" x 5" x 7/8" Thick, Plain Steel Angle Iron	59.49	16.41
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-4.07	
			For >500 To 1,000, Deduct	-6.10	
			For >1,000, Deduct	-8.14	
			For 316 Stainless Steel, Add	120.35	
			For Aluminum, Add	6.77	
			For Galvanized Steel, Add	23.32	
			For High Strength Steel (HSS), Add	11.90	
05 12 23 00-0536	LF		6" x 4" x 7/8" Thick, Plain Steel Angle Iron	59.49	16.41
			For >100 To 250, Deduct	-2.58	
			For >250 To 500, Deduct	-4.07	
			For >500 To 1,000, Deduct	-6.10	
			For >1,000, Deduct	-8.14	
			For 316 Stainless Steel, Add	120.35	
			For Aluminum, Add	6.77	
			For Galvanized Steel, Add	23.32	
			For High Strength Steel (HSS), Add	11.90	
05 12 23 00-0537	LF		6" x 6" x 7/8" Thick, Plain Steel Angle Iron	72.41	19.98
			For >100 To 250, Deduct	-3.14	
			For >250 To 500, Deduct	-4.95	
			For >500 To 1,000, Deduct	-7.43	
			For >1,000, Deduct	-9.90	
			For 316 Stainless Steel, Add	146.50	
			For Aluminum, Add	8.24	
			For Galvanized Steel, Add	28.38	
			For High Strength Steel (HSS), Add	14.48	
05 12 23 00-0538	LF		8" x 6" x 7/8" Thick, Plain Steel Angle Iron	85.53	23.60
			For >100 To 250, Deduct	-3.71	
			For >250 To 500, Deduct	-5.85	
			For >500 To 1,000, Deduct	-8.77	
			For >1,000, Deduct	-11.70	
			For 316 Stainless Steel, Add	173.02	
			For Aluminum, Add	9.73	
			For Galvanized Steel, Add	33.52	
			For High Strength Steel (HSS), Add	17.11	
05 12 23 00-0539	LF		8" x 8" x 7/8" Thick, Plain Steel Angle Iron	98.43	27.16
			For >100 To 250, Deduct	-4.27	
			For >250 To 500, Deduct	-6.73	
			For >500 To 1,000, Deduct	-10.10	
			For >1,000, Deduct	-13.46	
			For 316 Stainless Steel, Add	199.10	
			For Aluminum, Add	11.20	
			For Galvanized Steel, Add	38.58	
			For High Strength Steel (HSS), Add	19.69	
05 12 23 00-0540			Bar Channel (05 12 23 00-0422)		
05 12 23 00-0541	LF		1" x 1/2" x 1/8" Thick Bar Channel.....	5.13	
			For 304 Stainless Steel, Add	4.30	
			For 316 Stainless Steel, Add	4.83	
			For Aluminum, Add	0.27	
			For Galvanized Steel, Add	0.94	
			For High Strength Steel (HSS), Add	1.03	
05 12 23 00-0542	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel.....	5.74	
			For 304 Stainless Steel, Add	5.13	
			For 316 Stainless Steel, Add	5.76	
			For Aluminum, Add	0.32	
			For Galvanized Steel, Add	1.12	
			For High Strength Steel (HSS), Add	1.15	
05 12 23 00-0543	LF		1-1/2" x 1/2" x 1/8" Thick Bar Channel.....	6.25	
			For 304 Stainless Steel, Add	5.67	
			For 316 Stainless Steel, Add	6.37	
			For Aluminum, Add	0.36	
			For Galvanized Steel, Add	1.23	
			For High Strength Steel (HSS), Add	1.25	
05 12 23 00-0544	LF		1-1/2" x 3/4" x 1/8" Thick Bar Channel.....	7.18	
			For 304 Stainless Steel, Add	5.93	
			For 316 Stainless Steel, Add	6.66	
			For Aluminum, Add	0.37	
			For Galvanized Steel, Add	1.29	
			For High Strength Steel (HSS), Add	1.44	
05 12 23 00-0545	LF		2" x 1/2" x 1/8" Thick Bar Channel.....	7.65	
			For 304 Stainless Steel, Add	7.27	
			For 316 Stainless Steel, Add	8.16	
			For Aluminum, Add	0.46	
			For Galvanized Steel, Add	1.58	
05 12 23 00-0546	LF		2" x 1" x 1/8" Thick Bar Channel.....	10.13	
			For 304 Stainless Steel, Add	8.09	
			For 316 Stainless Steel, Add	9.09	
			For Aluminum, Add	0.51	
			For Galvanized Steel, Add	1.76	
05 12 23 00-0547			Channels - C (05 12 23 00-0422)		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0548	LF		C2 x 1.78 - 2" Wide Channel.....	8.41	4.50
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.72	
			For >500 To 1,000, Deduct	-1.08	
			For >1,000, Deduct	-1.44	
			For 304 Stainless Steel, Add	6.90	
			For 316 Stainless Steel, Add	7.74	
			For Aluminum, Add	0.44	
			For Galvanized Steel, Add	1.50	
05 12 23 00-0549	LF		C3 x 4.1 - 3" Wide Channel.....	14.29	6.46
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.15	
			For >500 To 1,000, Deduct	-1.72	
			For >1,000, Deduct	-2.29	
			For 304 Stainless Steel, Add	16.16	
			For 316 Stainless Steel, Add	18.14	
			For Aluminum, Add	1.02	
			For Galvanized Steel, Add	3.52	
05 12 23 00-0550	LF		C3 x 5 - 3" Wide Channel.....	17.43	7.88
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.40	
			For >500 To 1,000, Deduct	-2.10	
			For >1,000, Deduct	-2.80	
			For 304 Stainless Steel, Add	19.69	
			For 316 Stainless Steel, Add	22.11	
			For Aluminum, Add	1.24	
			For Galvanized Steel, Add	4.28	
05 12 23 00-0551	LF		C3 x 6 - 3" Wide Channel.....	20.92	9.46
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-1.68	
			For >500 To 1,000, Deduct	-2.52	
			For >1,000, Deduct	-3.35	
			For 304 Stainless Steel, Add	23.66	
			For 316 Stainless Steel, Add	26.56	
			For Aluminum, Add	1.49	
			For Galvanized Steel, Add	5.15	
05 12 23 00-0552	LF		C4 x 5.4 - 4" Wide Channel.....	17.82	7.76
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.41	
			For >500 To 1,000, Deduct	-2.11	
			For >1,000, Deduct	-2.82	
			For 304 Stainless Steel, Add	21.29	
			For 316 Stainless Steel, Add	23.90	
			For Aluminum, Add	1.34	
			For Galvanized Steel, Add	4.63	
05 12 23 00-0553	LF		C4 x 7.25 - 4" Wide Channel.....	23.91	10.41
			For >100 To 250, Deduct	-1.29	
			For >250 To 500, Deduct	-1.89	
			For >500 To 1,000, Deduct	-2.84	
			For >1,000, Deduct	-3.78	
			For 304 Stainless Steel, Add	28.56	
			For 316 Stainless Steel, Add	32.06	
			For Aluminum, Add	1.80	
			For Galvanized Steel, Add	6.21	
05 12 23 00-0554	LF		C5 x 6.7 - 5" Wide Channel.....	21.33	9.04
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.67	
			For >500 To 1,000, Deduct	-2.51	
			For >1,000, Deduct	-3.34	
			For 304 Stainless Steel, Add	26.39	
			For 316 Stainless Steel, Add	29.63	
			For Aluminum, Add	1.67	
			For Galvanized Steel, Add	5.74	
05 12 23 00-0555	LF		C5 x 9 - 5" Wide Channel.....	28.65	12.16
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-2.24	
			For >500 To 1,000, Deduct	-3.36	
			For >1,000, Deduct	-4.49	
			For 304 Stainless Steel, Add	35.45	
			For 316 Stainless Steel, Add	39.81	
			For Aluminum, Add	2.24	
			For Galvanized Steel, Add	7.71	
05 12 23 00-0556	LF		C6 x 8.2 - 6" Wide Channel.....	25.82	10.86
			For >100 To 250, Deduct	-1.37	
			For >250 To 500, Deduct	-2.02	
			For >500 To 1,000, Deduct	-3.02	
			For >1,000, Deduct	-4.03	
			For 304 Stainless Steel, Add	32.32	
			For 316 Stainless Steel, Add	36.29	
			For Aluminum, Add	2.04	
			For Galvanized Steel, Add	7.03	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0557	LF		C6 x 10.5 - 6" Wide Channel	33.06	13.91
			For >100 To 250, Deduct	-1.75	
			For >250 To 500, Deduct	-2.58	
			For >500 To 1,000, Deduct	-3.87	
			For >1,000, Deduct	-5.16	
			For 304 Stainless Steel, Add	41.38	
			For 316 Stainless Steel, Add	46.46	
			For Aluminum, Add	2.61	
			For Galvanized Steel, Add	9.00	
05 12 23 00-0558	LF		C6 x 13 - 6" Wide Channel	40.93	17.22
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-3.19	
			For >500 To 1,000, Deduct	-4.79	
			For >1,000, Deduct	-6.39	
			For 304 Stainless Steel, Add	51.21	
			For 316 Stainless Steel, Add	57.50	
			For Aluminum, Add	3.23	
			For Galvanized Steel, Add	11.14	
05 12 23 00-0559	LF		C7 x 9.8 - 7" Wide Channel	30.79	12.93
			For >100 To 250, Deduct	-1.63	
			For >250 To 500, Deduct	-2.40	
			For >500 To 1,000, Deduct	-3.60	
			For >1,000, Deduct	-4.80	
			For 304 Stainless Steel, Add	38.62	
			For 316 Stainless Steel, Add	43.36	
			For Aluminum, Add	2.44	
			For Galvanized Steel, Add	8.40	
05 12 23 00-0560	LF		C7 x 12.25 - 7" Wide Channel	38.49	16.16
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-3.00	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000, Deduct	-6.00	
			For 304 Stainless Steel, Add	48.28	
			For 316 Stainless Steel, Add	54.21	
			For Aluminum, Add	3.05	
			For Galvanized Steel, Add	10.50	
05 12 23 00-0561	LF		C7 x 14.75 - 7" Wide Channel	46.34	19.45
			For >100 To 250, Deduct	-2.46	
			For >250 To 500, Deduct	-3.61	
			For >500 To 1,000, Deduct	-5.42	
			For >1,000, Deduct	-7.23	
			For 304 Stainless Steel, Add	58.11	
			For 316 Stainless Steel, Add	65.25	
			For Aluminum, Add	3.67	
			For Galvanized Steel, Add	12.64	
05 12 23 00-0562	LF		C8 x 11.5 - 8" Wide Channel	34.87	14.22
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.69	
			For >500 To 1,000, Deduct	-4.04	
			For >1,000, Deduct	-5.38	
			For 304 Stainless Steel, Add	45.32	
			For 316 Stainless Steel, Add	50.88	
			For Aluminum, Add	2.86	
			For Galvanized Steel, Add	9.86	
05 12 23 00-0563	LF		C8 x 13.75 - 8" Wide Channel	41.69	17.01
			For >100 To 250, Deduct	-2.18	
			For >250 To 500, Deduct	-3.22	
			For >500 To 1,000, Deduct	-4.83	
			For >1,000, Deduct	-6.44	
			For 304 Stainless Steel, Add	54.18	
			For 316 Stainless Steel, Add	60.83	
			For Aluminum, Add	3.42	
			For Galvanized Steel, Add	11.79	
05 12 23 00-0564	LF		C8 x 18.75 - 8" Wide Channel	56.83	23.19
			For >100 To 250, Deduct	-2.97	
			For >250 To 500, Deduct	-4.39	
			For >500 To 1,000, Deduct	-6.58	
			For >1,000, Deduct	-8.77	
			For 304 Stainless Steel, Add	73.87	
			For 316 Stainless Steel, Add	82.94	
			For Aluminum, Add	4.67	
			For Galvanized Steel, Add	16.07	
05 12 23 00-0565	LF		C9 x 13.4 - 9" Wide Channel	40.63	16.57
			For >100 To 250, Deduct	-2.12	
			For >250 To 500, Deduct	-3.14	
			For >500 To 1,000, Deduct	-4.70	
			For >1,000, Deduct	-6.27	
			For 304 Stainless Steel, Add	52.61	
			For 316 Stainless Steel, Add	59.30	
			For Aluminum, Add	3.34	
			For Galvanized Steel, Add	11.49	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0566	LF		C9 x 15 - 9" Wide Channel.....	45.48	18.55
			For >100 To 250, Deduct	-2.37	
			For >250 To 500, Deduct	-3.51	
			For >500 To 1,000, Deduct	-5.27	
			For >1,000, Deduct	-7.02	
			For 304 Stainless Steel, Add	59.11	
			For 316 Stainless Steel, Add	66.37	
			For Aluminum, Add	3.73	
			For Galvanized Steel, Add	12.86	
05 12 23 00-0567	LF		C9 x 20 - 9" Wide Channel.....	60.64	24.74
			For >100 To 250, Deduct	-3.17	
			For >250 To 500, Deduct	-4.68	
			For >500 To 1,000, Deduct	-7.02	
			For >1,000, Deduct	-9.36	
			For 304 Stainless Steel, Add	78.80	
			For 316 Stainless Steel, Add	88.48	
			For Aluminum, Add	4.98	
			For Galvanized Steel, Add	17.14	
05 12 23 00-0568	LF		C10 x 15.3 - 10" Wide Channel.....	46.37	18.92
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.58	
			For >500 To 1,000, Deduct	-5.37	
			For >1,000, Deduct	-7.16	
			For 304 Stainless Steel, Add	60.28	
			For 316 Stainless Steel, Add	67.68	
			For Aluminum, Add	3.81	
			For Galvanized Steel, Add	13.11	
05 12 23 00-0569	LF		C10 x 20 - 10" Wide Channel.....	60.64	24.74
			For >100 To 250, Deduct	-3.17	
			For >250 To 500, Deduct	-4.68	
			For >500 To 1,000, Deduct	-7.02	
			For >1,000, Deduct	-9.36	
			For 304 Stainless Steel, Add	78.80	
			For 316 Stainless Steel, Add	88.48	
			For Aluminum, Add	4.98	
			For Galvanized Steel, Add	17.14	
05 12 23 00-0570	LF		C10 x 25 - 10" Wide Channel.....	75.80	30.91
			For >100 To 250, Deduct	-3.96	
			For >250 To 500, Deduct	-5.85	
			For >500 To 1,000, Deduct	-8.78	
			For >1,000, Deduct	-11.70	
			For 304 Stainless Steel, Add	98.52	
			For 316 Stainless Steel, Add	110.62	
			For Aluminum, Add	6.22	
			For Galvanized Steel, Add	21.43	
05 12 23 00-0571	LF		C10 x 30 - 10" Wide Channel.....	90.95	37.10
			For >100 To 250, Deduct	-4.75	
			For >250 To 500, Deduct	-7.02	
			For >500 To 1,000, Deduct	-10.53	
			For >1,000, Deduct	-14.04	
			For 304 Stainless Steel, Add	118.22	
			For 316 Stainless Steel, Add	132.74	
			For Aluminum, Add	7.47	
			For Galvanized Steel, Add	25.72	
05 12 23 00-0572	LF		C12 x 20.7 - 12" Wide Channel.....	62.76	25.61
			For >100 To 250, Deduct	-3.28	
			For >250 To 500, Deduct	-4.85	
			For >500 To 1,000, Deduct	-7.27	
			For >1,000, Deduct	-9.69	
			For 304 Stainless Steel, Add	81.57	
			For 316 Stainless Steel, Add	91.58	
			For Aluminum, Add	5.15	
			For Galvanized Steel, Add	17.74	
05 12 23 00-0573	LF		C12 x 25 - 12" Wide Channel.....	75.80	30.91
			For >100 To 250, Deduct	-3.96	
			For >250 To 500, Deduct	-5.85	
			For >500 To 1,000, Deduct	-8.78	
			For >1,000, Deduct	-11.70	
			For 304 Stainless Steel, Add	98.52	
			For 316 Stainless Steel, Add	110.62	
			For Aluminum, Add	6.22	
			For Galvanized Steel, Add	21.43	
05 12 23 00-0574	LF		C12 x 30 - 12" Wide Channel.....	90.95	37.10
			For >100 To 250, Deduct	-4.75	
			For >250 To 500, Deduct	-7.02	
			For >500 To 1,000, Deduct	-10.53	
			For >1,000, Deduct	-14.04	
			For 304 Stainless Steel, Add	118.22	
			For 316 Stainless Steel, Add	132.74	
			For Aluminum, Add	7.47	
			For Galvanized Steel, Add	25.72	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0575	LF		C15 x 33.9 - 15" Wide Channel	102.78	41.93
			For >100 To 250, Deduct	-5.37	
			For >250 To 500, Deduct	-7.93	
			For >500 To 1,000, Deduct	-11.90	
			For >1,000, Deduct	-15.87	
			For 304 Stainless Steel, Add	133.58	
			For 316 Stainless Steel, Add	149.98	
			For Aluminum, Add	8.44	
			For Galvanized Steel, Add	29.06	
05 12 23 00-0576	LF		C15 x 40 - 15" Wide Channel	121.27	49.47
			For >100 To 250, Deduct	-6.33	
			For >250 To 500, Deduct	-9.36	
			For >500 To 1,000, Deduct	-14.04	
			For >1,000, Deduct	-18.72	
			For 304 Stainless Steel, Add	157.63	
			For 316 Stainless Steel, Add	176.99	
			For Aluminum, Add	9.96	
			For Galvanized Steel, Add	34.29	
05 12 23 00-0577	LF		C15 x 50 - 15" Wide Channel	151.58	61.84
			For >100 To 250, Deduct	-7.91	
			For >250 To 500, Deduct	-11.70	
			For >500 To 1,000, Deduct	-17.55	
			For >1,000, Deduct	-23.40	
			For 304 Stainless Steel, Add	197.02	
			For 316 Stainless Steel, Add	221.22	
			For Aluminum, Add	12.44	
			For Galvanized Steel, Add	42.86	
05 12 23 00-0578 Miscellaneous Channels - MC (05 12 23 00-0422)					
05 12 23 00-0579	LF		MC6 x 12 - 6" Wide Channel	37.78	15.90
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.95	
			For >500 To 1,000, Deduct	-4.42	
			For >1,000, Deduct	-5.90	
			For 304 Stainless Steel, Add	47.28	
			For 316 Stainless Steel, Add	53.09	
			For Aluminum, Add	2.99	
			For Galvanized Steel, Add	10.29	
05 12 23 00-0580	LF		MC6 x 15.1 - 6" Wide Channel	47.55	20.00
			For >100 To 250, Deduct	-2.52	
			For >250 To 500, Deduct	-3.71	
			For >500 To 1,000, Deduct	-5.57	
			For >1,000, Deduct	-7.42	
			For 304 Stainless Steel, Add	59.51	
			For 316 Stainless Steel, Add	66.82	
			For Aluminum, Add	3.76	
			For Galvanized Steel, Add	12.95	
05 12 23 00-0581	LF		MC6 x 15.3 - 6" Wide Channel	48.17	20.26
			For >100 To 250, Deduct	-2.56	
			For >250 To 500, Deduct	-3.76	
			For >500 To 1,000, Deduct	-5.64	
			For >1,000, Deduct	-7.52	
			For 304 Stainless Steel, Add	60.28	
			For 316 Stainless Steel, Add	67.68	
			For Aluminum, Add	3.81	
			For Galvanized Steel, Add	13.11	
05 12 23 00-0582	LF		MC6 x 16.3 - 6" Wide Channel	51.33	21.59
			For >100 To 250, Deduct	-2.72	
			For >250 To 500, Deduct	-4.01	
			For >500 To 1,000, Deduct	-6.01	
			For >1,000, Deduct	-8.01	
			For 304 Stainless Steel, Add	64.24	
			For 316 Stainless Steel, Add	72.13	
			For Aluminum, Add	4.06	
			For Galvanized Steel, Add	13.97	
05 12 23 00-0583	LF		MC6 x 18 - 6" Wide Channel	56.68	23.84
			For >100 To 250, Deduct	-3.01	
			For >250 To 500, Deduct	-4.42	
			For >500 To 1,000, Deduct	-6.64	
			For >1,000, Deduct	-8.85	
			For 304 Stainless Steel, Add	70.94	
			For 316 Stainless Steel, Add	79.65	
			For Aluminum, Add	4.48	
			For Galvanized Steel, Add	15.43	
05 12 23 00-0584	LF		MC7 x 17.6 - 7" Wide Channel	55.29	23.23
			For >100 To 250, Deduct	-2.93	
			For >250 To 500, Deduct	-4.31	
			For >500 To 1,000, Deduct	-6.47	
			For >1,000, Deduct	-8.63	
			For 304 Stainless Steel, Add	69.34	
			For 316 Stainless Steel, Add	77.86	
			For Aluminum, Add	4.38	
			For Galvanized Steel, Add	15.08	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0585	LF		MC7 x 19.1 - 7" Wide Channel.....	60.02	25.20
			For >100 To 250, Deduct	-3.18	
			For >250 To 500, Deduct	-4.68	
			For >500 To 1,000, Deduct	-7.02	
			For >1,000, Deduct	-9.36	
			For 304 Stainless Steel, Add	75.27	
			For 316 Stainless Steel, Add	84.51	
			For Aluminum, Add	4.75	
			For Galvanized Steel, Add	16.37	
05 12 23 00-0586	LF		MC7 x 22.7 - 7" Wide Channel.....	71.33	29.95
			For >100 To 250, Deduct	-3.78	
			For >250 To 500, Deduct	-5.56	
			For >500 To 1,000, Deduct	-8.35	
			For >1,000, Deduct	-11.13	
			For 304 Stainless Steel, Add	89.46	
			For 316 Stainless Steel, Add	100.45	
			For Aluminum, Add	5.65	
			For Galvanized Steel, Add	19.46	
05 12 23 00-0587	LF		MC8 x 8.5 - 8" Wide Channel.....	25.78	10.52
			For >100 To 250, Deduct	-1.35	
			For >250 To 500, Deduct	-1.99	
			For >500 To 1,000, Deduct	-2.99	
			For >1,000, Deduct	-3.98	
			For 304 Stainless Steel, Add	33.49	
			For 316 Stainless Steel, Add	37.60	
			For Aluminum, Add	2.12	
			For Galvanized Steel, Add	7.29	
05 12 23 00-0588	LF		MC8 x 18.7 - 8" Wide Channel.....	56.69	23.12
			For >100 To 250, Deduct	-2.96	
			For >250 To 500, Deduct	-4.38	
			For >500 To 1,000, Deduct	-6.56	
			For >1,000, Deduct	-8.75	
			For 304 Stainless Steel, Add	73.70	
			For 316 Stainless Steel, Add	82.75	
			For Aluminum, Add	4.65	
			For Galvanized Steel, Add	16.03	
05 12 23 00-0589	LF		MC8 x 20 - 8" Wide Channel.....	60.64	24.74
			For >100 To 250, Deduct	-3.17	
			For >250 To 500, Deduct	-4.68	
			For >500 To 1,000, Deduct	-7.02	
			For >1,000, Deduct	-9.36	
			For 304 Stainless Steel, Add	78.80	
			For 316 Stainless Steel, Add	88.48	
			For Aluminum, Add	4.98	
			For Galvanized Steel, Add	17.14	
05 12 23 00-0590	LF		MC8 x 21.4 - 8" Wide Channel.....	64.89	26.47
			For >100 To 250, Deduct	-3.39	
			For >250 To 500, Deduct	-5.01	
			For >500 To 1,000, Deduct	-7.51	
			For >1,000, Deduct	-10.02	
			For 304 Stainless Steel, Add	84.33	
			For 316 Stainless Steel, Add	94.69	
			For Aluminum, Add	5.33	
			For Galvanized Steel, Add	18.35	
05 12 23 00-0591	LF		MC8 x 22.8 - 8" Wide Channel.....	69.11	28.21
			For >100 To 250, Deduct	-3.61	
			For >250 To 500, Deduct	-5.34	
			For >500 To 1,000, Deduct	-8.00	
			For >1,000, Deduct	-10.67	
			For 304 Stainless Steel, Add	89.83	
			For 316 Stainless Steel, Add	100.86	
			For Aluminum, Add	5.67	
			For Galvanized Steel, Add	19.54	
05 12 23 00-0592	LF		MC9 x 23.9 - 9" Wide Channel.....	72.46	29.56
			For >100 To 250, Deduct	-3.78	
			For >250 To 500, Deduct	-5.59	
			For >500 To 1,000, Deduct	-8.39	
			For >1,000, Deduct	-11.19	
			For 304 Stainless Steel, Add	94.19	
			For 316 Stainless Steel, Add	105.76	
			For Aluminum, Add	5.95	
			For Galvanized Steel, Add	20.49	
05 12 23 00-0593	LF		MC9 x 25.4 - 9" Wide Channel.....	77.00	31.41
			For >100 To 250, Deduct	-4.02	
			For >250 To 500, Deduct	-5.94	
			For >500 To 1,000, Deduct	-8.92	
			For >1,000, Deduct	-11.89	
			For 304 Stainless Steel, Add	100.09	
			For 316 Stainless Steel, Add	112.38	
			For Aluminum, Add	6.32	
			For Galvanized Steel, Add	21.77	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0594	LF		MC10 x 6.5 - 10" Wide Channel	19.71	8.03
			For >100 To 250, Deduct	-1.03	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.28	
			For >1,000, Deduct	-3.04	
			For 304 Stainless Steel, Add	25.62	
			For 316 Stainless Steel, Add	28.77	
			For Aluminum, Add	1.62	
			For Galvanized Steel, Add	5.57	
05 12 23 00-0595	LF		MC10 x 8.4 - 10" Wide Channel	25.46	10.39
			For >100 To 250, Deduct	-1.33	
			For >250 To 500, Deduct	-1.97	
			For >500 To 1,000, Deduct	-2.95	
			For >1,000, Deduct	-3.93	
			For 304 Stainless Steel, Add	33.09	
			For 316 Stainless Steel, Add	37.15	
			For Aluminum, Add	2.09	
			For Galvanized Steel, Add	7.20	
05 12 23 00-0596	LF		MC10 x 21.9 - 10" Wide Channel	66.39	27.09
			For >100 To 250, Deduct	-3.47	
			For >250 To 500, Deduct	-5.13	
			For >500 To 1,000, Deduct	-7.69	
			For >1,000, Deduct	-10.25	
			For 304 Stainless Steel, Add	86.30	
			For 316 Stainless Steel, Add	96.90	
			For Aluminum, Add	5.45	
			For Galvanized Steel, Add	18.77	
05 12 23 00-0597	LF		MC10 x 24.9 - 10" Wide Channel	75.50	30.80
			For >100 To 250, Deduct	-3.94	
			For >250 To 500, Deduct	-5.83	
			For >500 To 1,000, Deduct	-8.74	
			For >1,000, Deduct	-11.66	
			For 304 Stainless Steel, Add	98.13	
			For 316 Stainless Steel, Add	110.18	
			For Aluminum, Add	6.20	
			For Galvanized Steel, Add	21.35	
05 12 23 00-0598	LF		MC10 x 25.3 - 10" Wide Channel	76.70	31.30
			For >100 To 250, Deduct	-4.00	
			For >250 To 500, Deduct	-5.92	
			For >500 To 1,000, Deduct	-8.88	
			For >1,000, Deduct	-11.84	
			For 304 Stainless Steel, Add	99.69	
			For 316 Stainless Steel, Add	111.94	
			For Aluminum, Add	6.30	
			For Galvanized Steel, Add	21.69	
05 12 23 00-0599	LF		MC10 x 28.3 - 10" Wide Channel	85.81	35.00
			For >100 To 250, Deduct	-4.48	
			For >250 To 500, Deduct	-6.62	
			For >500 To 1,000, Deduct	-9.94	
			For >1,000, Deduct	-13.25	
			For 304 Stainless Steel, Add	111.52	
			For 316 Stainless Steel, Add	125.22	
			For Aluminum, Add	7.04	
			For Galvanized Steel, Add	24.26	
05 12 23 00-0600	LF		MC10 x 28.5 - 10" Wide Channel	86.41	35.25
			For >100 To 250, Deduct	-4.51	
			For >250 To 500, Deduct	-6.67	
			For >500 To 1,000, Deduct	-10.01	
			For >1,000, Deduct	-13.34	
			For 304 Stainless Steel, Add	112.32	
			For 316 Stainless Steel, Add	126.11	
			For Aluminum, Add	7.09	
			For Galvanized Steel, Add	24.43	
05 12 23 00-0601	LF		MC10 x 33.6 - 10" Wide Channel	101.87	41.57
			For >100 To 250, Deduct	-5.32	
			For >250 To 500, Deduct	-7.86	
			For >500 To 1,000, Deduct	-11.80	
			For >1,000, Deduct	-15.73	
			For 304 Stainless Steel, Add	132.41	
			For 316 Stainless Steel, Add	148.67	
			For Aluminum, Add	8.36	
			For Galvanized Steel, Add	28.81	
05 12 23 00-0602	LF		MC10 x 41.1 - 10" Wide Channel	124.61	50.83
			For >100 To 250, Deduct	-6.50	
			For >250 To 500, Deduct	-9.62	
			For >500 To 1,000, Deduct	-14.43	
			For >1,000, Deduct	-19.24	
			For 304 Stainless Steel, Add	161.97	
			For 316 Stainless Steel, Add	181.86	
			For Aluminum, Add	10.23	
			For Galvanized Steel, Add	35.23	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0603	LF		MC12 x 30.9 - 12" Wide Channel.....	93.68	38.22
			For >100 To 250, Deduct	-4.89	
			For >250 To 500, Deduct	-7.23	
			For >500 To 1,000, Deduct	-10.85	
			For >1,000, Deduct	-14.46	
			For 304 Stainless Steel, Add	121.75	
			For 316 Stainless Steel, Add	136.70	
			For Aluminum, Add	7.69	
			For Galvanized Steel, Add	26.49	
05 12 23 00-0604	LF		MC12 x 32.9 - 12" Wide Channel.....	99.75	40.69
			For >100 To 250, Deduct	-5.21	
			For >250 To 500, Deduct	-7.70	
			For >500 To 1,000, Deduct	-11.55	
			For >1,000, Deduct	-15.40	
			For 304 Stainless Steel, Add	129.65	
			For 316 Stainless Steel, Add	145.57	
			For Aluminum, Add	8.19	
			For Galvanized Steel, Add	28.20	
05 12 23 00-0605	LF		MC12 x 35 - 12" Wide Channel.....	106.12	43.28
			For >100 To 250, Deduct	-5.54	
			For >250 To 500, Deduct	-8.19	
			For >500 To 1,000, Deduct	-12.29	
			For >1,000, Deduct	-16.39	
			For 304 Stainless Steel, Add	137.91	
			For 316 Stainless Steel, Add	154.85	
			For Aluminum, Add	8.71	
			For Galvanized Steel, Add	30.00	
05 12 23 00-0606	LF		MC12 x 37 - 12" Wide Channel.....	112.18	45.77
			For >100 To 250, Deduct	-5.86	
			For >250 To 500, Deduct	-8.66	
			For >500 To 1,000, Deduct	-12.99	
			For >1,000, Deduct	-17.32	
			For 304 Stainless Steel, Add	145.81	
			For 316 Stainless Steel, Add	163.71	
			For Aluminum, Add	9.21	
			For Galvanized Steel, Add	31.72	
05 12 23 00-0607	LF		MC12 x 40 - 12" Wide Channel.....	121.27	49.47
			For >100 To 250, Deduct	-6.33	
			For >250 To 500, Deduct	-9.36	
			For >500 To 1,000, Deduct	-14.04	
			For >1,000, Deduct	-18.72	
			For 304 Stainless Steel, Add	157.63	
			For 316 Stainless Steel, Add	176.99	
			For Aluminum, Add	9.96	
			For Galvanized Steel, Add	34.29	
05 12 23 00-0608	LF		MC12 x 45 - 12" Wide Channel.....	136.44	55.66
			For >100 To 250, Deduct	-7.12	
			For >250 To 500, Deduct	-10.53	
			For >500 To 1,000, Deduct	-15.80	
			For >1,000, Deduct	-21.07	
			For 304 Stainless Steel, Add	177.33	
			For 316 Stainless Steel, Add	199.10	
			For Aluminum, Add	11.20	
			For Galvanized Steel, Add	38.58	
05 12 23 00-0609	LF		MC12 x 50 - 12" Wide Channel.....	151.58	61.85
			For >100 To 250, Deduct	-7.91	
			For >250 To 500, Deduct	-11.70	
			For >500 To 1,000, Deduct	-17.55	
			For >1,000, Deduct	-23.40	
			For 304 Stainless Steel, Add	197.02	
			For 316 Stainless Steel, Add	221.22	
			For Aluminum, Add	12.44	
			For Galvanized Steel, Add	42.86	
05 12 23 00-0610	LF		MC13 x 31.8 - 13" Wide Channel.....	96.42	39.33
			For >100 To 250, Deduct	-5.03	
			For >250 To 500, Deduct	-7.44	
			For >500 To 1,000, Deduct	-11.17	
			For >1,000, Deduct	-14.89	
			For 304 Stainless Steel, Add	125.31	
			For 316 Stainless Steel, Add	140.70	
			For Aluminum, Add	7.91	
			For Galvanized Steel, Add	27.26	
05 12 23 00-0611	LF		MC13 x 35 - 13" Wide Channel.....	106.12	43.28
			For >100 To 250, Deduct	-5.54	
			For >250 To 500, Deduct	-8.19	
			For >500 To 1,000, Deduct	-12.29	
			For >1,000, Deduct	-16.39	
			For 304 Stainless Steel, Add	137.91	
			For 316 Stainless Steel, Add	154.85	
			For Aluminum, Add	8.71	
			For Galvanized Steel, Add	30.00	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0612	LF		MC13 x 40 - 13" Wide Channel	121.27	49.47
			For >100 To 250, Deduct	-6.33	
			For >250 To 500, Deduct	-9.36	
			For >500 To 1,000, Deduct	-14.04	
			For >1,000, Deduct	-18.72	
			For 304 Stainless Steel, Add	157.63	
			For 316 Stainless Steel, Add	176.99	
			For Aluminum, Add	9.96	
			For Galvanized Steel, Add	34.29	
05 12 23 00-0613	LF		MC13 x 50 - 13" Wide Channel	151.58	61.85
			For >100 To 250, Deduct	-7.91	
			For >250 To 500, Deduct	-11.70	
			For >500 To 1,000, Deduct	-17.55	
			For >1,000, Deduct	-23.40	
			For 304 Stainless Steel, Add	197.02	
			For 316 Stainless Steel, Add	221.22	
			For Aluminum, Add	12.44	
			For Galvanized Steel, Add	42.86	
05 12 23 00-0614	LF		MC18 x 42.7 - 18" Wide Channel	129.46	52.81
			For >100 To 250, Deduct	-6.76	
			For >250 To 500, Deduct	-9.99	
			For >500 To 1,000, Deduct	-14.99	
			For >1,000, Deduct	-19.99	
			For 304 Stainless Steel, Add	168.26	
			For 316 Stainless Steel, Add	188.93	
			For Aluminum, Add	10.63	
			For Galvanized Steel, Add	36.60	
05 12 23 00-0615	LF		MC18 x 45.8 - 18" Wide Channel	138.85	56.65
			For >100 To 250, Deduct	-7.25	
			For >250 To 500, Deduct	-10.72	
			For >500 To 1,000, Deduct	-16.08	
			For >1,000, Deduct	-21.44	
			For 304 Stainless Steel, Add	180.49	
			For 316 Stainless Steel, Add	202.66	
			For Aluminum, Add	11.40	
			For Galvanized Steel, Add	39.26	
05 12 23 00-0616	LF		MC18 x 51.9 - 18" Wide Channel	157.36	64.19
			For >100 To 250, Deduct	-8.21	
			For >250 To 500, Deduct	-12.15	
			For >500 To 1,000, Deduct	-18.22	
			For >1,000, Deduct	-24.30	
			For 304 Stainless Steel, Add	204.52	
			For 316 Stainless Steel, Add	229.63	
			For Aluminum, Add	12.92	
			For Galvanized Steel, Add	44.49	
05 12 23 00-0617	LF		MC18 x 58 - 18" Wide Channel	175.84	71.73
			For >100 To 250, Deduct	-9.18	
			For >250 To 500, Deduct	-13.57	
			For >500 To 1,000, Deduct	-20.36	
			For >1,000, Deduct	-27.15	
			For 304 Stainless Steel, Add	228.54	
			For 316 Stainless Steel, Add	256.61	
			For Aluminum, Add	14.43	
			For Galvanized Steel, Add	49.72	
05 12 23 00-0618			Structural Bar Tees (05 12 23 00-0422)		
05 12 23 00-0619	LF		3/4" x 3/4" x 1/8" Structural Bar Tee	5.51	3.29
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.50	
			For >500 To 1,000, Deduct	-0.74	
			For >1,000, Deduct	-0.99	
			For 304 Stainless Steel, Add	3.19	
			For 316 Stainless Steel, Add	3.58	
			For Aluminum, Add	0.20	
			For Galvanized Steel, Add	0.69	
05 12 23 00-0620	LF		1" x 1" x 1/8" Structural Bar Tee	6.70	3.88
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.59	
			For >500 To 1,000, Deduct	-0.89	
			For >1,000, Deduct	-1.19	
			For 304 Stainless Steel, Add	4.36	
			For 316 Stainless Steel, Add	4.90	
			For Aluminum, Add	0.28	
			For Galvanized Steel, Add	0.95	
05 12 23 00-0621	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	10.35	4.48
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-0.82	
			For >500 To 1,000, Deduct	-1.22	
			For >1,000, Deduct	-1.63	
			For 304 Stainless Steel, Add	12.48	
			For 316 Stainless Steel, Add	14.02	
			For Aluminum, Add	0.79	
			For Galvanized Steel, Add	2.72	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0622	LF 2" x 2" x 1/4" Structural Bar Tee	14.34		5.86
	For >100 To 250, Deduct	-0.75		
	For >250 To 500, Deduct	-1.11		
	For >500 To 1,000, Deduct	-1.66		
	For >1,000, Deduct	-2.22		
	For 304 Stainless Steel, Add	18.61		
	For 316 Stainless Steel, Add	20.90		
	For Aluminum, Add	1.18		
	For Galvanized Steel, Add	4.05		
05 12 23 00-0623	LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	21.16		7.06
	For >100 To 250, Deduct	-1.00		
	For >250 To 500, Deduct	-1.53		
	For >500 To 1,000, Deduct	-2.29		
	For >1,000, Deduct	-3.06		
	For 304 Stainless Steel, Add	33.43		
	For 316 Stainless Steel, Add	37.54		
	For Aluminum, Add	2.11		
	For Galvanized Steel, Add	7.27		
05 12 23 00-0624	LF 3" x 3" x 3/8" Structural Bar Tee	26.14		9.05
	For >100 To 250, Deduct	-1.26		
	For >250 To 500, Deduct	-1.91		
	For >500 To 1,000, Deduct	-2.87		
	For >1,000, Deduct	-3.82		
	For 304 Stainless Steel, Add	40.10		
	For 316 Stainless Steel, Add	45.02		
	For Aluminum, Add	2.53		
	For Galvanized Steel, Add	8.72		
05 12 23 00-0625 Structural Zees (05 12 23 00-0422)				
05 12 23 00-0626	LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	12.51		4.48
	For >100 To 250, Deduct	-0.61		
	For >250 To 500, Deduct	-0.92		
	For >500 To 1,000, Deduct	-1.39		
	For >1,000, Deduct	-1.85		
	For 304 Stainless Steel, Add	18.64		
	For 316 Stainless Steel, Add	20.93		
	For Aluminum, Add	1.18		
	For Galvanized Steel, Add	4.05		
05 12 23 00-0627	LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee	22.76		5.35
	For >100 To 250, Deduct	-0.93		
	For >250 To 500, Deduct	-1.49		
	For >500 To 1,000, Deduct	-2.24		
	For >1,000, Deduct	-2.99		
	For 304 Stainless Steel, Add	44.57		
	For 316 Stainless Steel, Add	50.05		
	For Aluminum, Add	2.82		
	For Galvanized Steel, Add	9.70		
05 12 23 00-0628	LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee	27.18		6.03
	For >100 To 250, Deduct	-1.08		
	For >250 To 500, Deduct	-1.76		
	For >500 To 1,000, Deduct	-2.64		
	For >1,000, Deduct	-3.52		
	For 304 Stainless Steel, Add	54.55		
	For 316 Stainless Steel, Add	61.25		
	For Aluminum, Add	3.45		
	For Galvanized Steel, Add	11.87		
05 12 23 00-0629	LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee	36.28		6.89
	For >100 To 250, Deduct	-1.37		
	For >250 To 500, Deduct	-2.27		
	For >500 To 1,000, Deduct	-3.41		
	For >1,000, Deduct	-4.55		
	For 304 Stainless Steel, Add	77.18		
	For 316 Stainless Steel, Add	86.66		
	For Aluminum, Add	4.87		
	For Galvanized Steel, Add	16.79		
05 12 23 00-0630	LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee	46.65		7.50
	For >100 To 250, Deduct	-1.67		
	For >250 To 500, Deduct	-2.83		
	For >500 To 1,000, Deduct	-4.25		
	For >1,000, Deduct	-5.67		
	For 304 Stainless Steel, Add	104.45		
	For 316 Stainless Steel, Add	117.28		
	For Aluminum, Add	6.60		
	For Galvanized Steel, Add	22.72		

05 12 23 00-0631 Junior I-Beams (05 12 23 00-0422)



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0632	LF	3" Junior I-Beam, 2.9 Lb./LF	.....	17.24	6.47
		For >100 To 250, Deduct	.....	-0.86	
		For >250 To 500, Deduct	.....	-1.29	
		For >500 To 1,000, Deduct	.....	-1.94	
		For >1,000, Deduct	.....	-2.59	
		For 304 Stainless Steel, Add	.....	24.57	
		For 316 Stainless Steel, Add	.....	27.58	
		For Aluminum, Add	.....	1.55	
		For Galvanized Steel, Add	.....	5.34	
05 12 23 00-0633	LF	4" Junior I-Beam, 3.2 Lb./LF	.....	18.94	7.06
		For >100 To 250, Deduct	.....	-0.95	
		For >250 To 500, Deduct	.....	-1.42	
		For >500 To 1,000, Deduct	.....	-2.13	
		For >1,000, Deduct	.....	-2.84	
		For 304 Stainless Steel, Add	.....	27.10	
		For 316 Stainless Steel, Add	.....	30.43	
		For Aluminum, Add	.....	1.71	
		For Galvanized Steel, Add	.....	5.90	
05 12 23 00-0634	LF	5" Junior I-Beam, 3.8 Lb./LF	.....	21.63	7.76
		For >100 To 250, Deduct	.....	-1.06	
		For >250 To 500, Deduct	.....	-1.60	
		For >500 To 1,000, Deduct	.....	-2.40	
		For >1,000, Deduct	.....	-3.20	
		For 304 Stainless Steel, Add	.....	32.18	
		For 316 Stainless Steel, Add	.....	36.13	
		For Aluminum, Add	.....	2.03	
		For Galvanized Steel, Add	.....	7.00	
05 12 23 00-0635	LF	6" Junior I-Beam, 4.4 Lb./LF	.....	24.34	8.45
		For >100 To 250, Deduct	.....	-1.17	
		For >250 To 500, Deduct	.....	-1.78	
		For >500 To 1,000, Deduct	.....	-2.67	
		For >1,000, Deduct	.....	-3.56	
		For 304 Stainless Steel, Add	.....	37.25	
		For 316 Stainless Steel, Add	.....	41.82	
		For Aluminum, Add	.....	2.35	
		For Galvanized Steel, Add	.....	8.10	
05 12 23 00-0636	LF	7" Junior I-Beam, 5.5 Lb./LF	.....	28.41	9.04
		For >100 To 250, Deduct	.....	-1.31	
		For >250 To 500, Deduct	.....	-2.02	
		For >500 To 1,000, Deduct	.....	-3.04	
		For >1,000, Deduct	.....	-4.05	
		For 304 Stainless Steel, Add	.....	46.57	
		For 316 Stainless Steel, Add	.....	52.29	
		For Aluminum, Add	.....	2.94	
		For Galvanized Steel, Add	.....	10.13	
05 12 23 00-0637	LF	8" Junior I-Beam, 6.5 Lb./LF	.....	32.19	9.65
		For >100 To 250, Deduct	.....	-1.45	
		For >250 To 500, Deduct	.....	-2.25	
		For >500 To 1,000, Deduct	.....	-3.38	
		For >1,000, Deduct	.....	-4.51	
		For 304 Stainless Steel, Add	.....	55.03	
		For 316 Stainless Steel, Add	.....	61.79	
		For Aluminum, Add	.....	3.48	
		For Galvanized Steel, Add	.....	11.97	
05 12 23 00-0638	LF	10" Junior I-Beam, 9 Lb./LF	.....	41.45	11.04
		For >100 To 250, Deduct	.....	-1.77	
		For >250 To 500, Deduct	.....	-2.81	
		For >500 To 1,000, Deduct	.....	-4.21	
		For >1,000, Deduct	.....	-5.62	
		For 304 Stainless Steel, Add	.....	76.21	
		For 316 Stainless Steel, Add	.....	85.57	
		For Aluminum, Add	.....	4.81	
		For Galvanized Steel, Add	.....	16.58	
05 12 23 00-0639	LF	12" Junior I-Beam, 11.8 Lb./LF	.....	52.53	13.11
		For >100 To 250, Deduct	.....	-2.19	
		For >250 To 500, Deduct	.....	-3.50	
		For >500 To 1,000, Deduct	.....	-5.25	
		For >1,000, Deduct	.....	-7.00	
		For 304 Stainless Steel, Add	.....	99.92	
		For 316 Stainless Steel, Add	.....	112.19	
		For Aluminum, Add	.....	6.31	
		For Galvanized Steel, Add	.....	21.74	
05 12 23 00-0640 Round Stock (05 12 23 00-0422)					
05 12 23 00-0641	LF	1/4" Carbon Steel Rounds, ASTM A108	.....	2.48	
		For 304 Stainless Steel, Add	.....	3.79	
		For 316 Stainless Steel, Add	.....	4.26	
		For Aluminum, Add	.....	0.24	
		For Galvanized Steel, Add	.....	0.82	
05 12 23 00-0642	LF	3/8" Carbon Steel Rounds, ASTM A108	.....	3.91	
		For 304 Stainless Steel, Add	.....	7.44	
		For 316 Stainless Steel, Add	.....	8.35	
		For Aluminum, Add	.....	0.47	
		For Galvanized Steel, Add	.....	1.62	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0643	LF		1/2" Carbon Steel Rounds, ASTM A108	5.42	
			For 304 Stainless Steel, Add	11.34	
			For 316 Stainless Steel, Add	12.74	
			For Aluminum, Add	0.72	
			For Galvanized Steel, Add	2.47	
05 12 23 00-0644	LF		5/8" Carbon Steel Rounds, ASTM A108	8.23	
			For 304 Stainless Steel, Add	18.90	
			For 316 Stainless Steel, Add	21.22	
			For Aluminum, Add	1.19	
			For Galvanized Steel, Add	4.11	
05 12 23 00-0645	LF		3/4" Carbon Steel Rounds, ASTM A108	9.80	
			For 304 Stainless Steel, Add	22.46	
			For 316 Stainless Steel, Add	25.22	
			For Aluminum, Add	1.42	
			For Galvanized Steel, Add	4.89	
05 12 23 00-0646	LF		7/8" Carbon Steel Rounds, ASTM A108	11.41	
			For 304 Stainless Steel, Add	26.22	
			For 316 Stainless Steel, Add	29.44	
			For Aluminum, Add	1.66	
			For Galvanized Steel, Add	5.70	
05 12 23 00-0647	LF		1" Carbon Steel Rounds, ASTM A108	16.63	
			For 304 Stainless Steel, Add	39.96	
			For 316 Stainless Steel, Add	44.86	
			For Aluminum, Add	2.52	
			For Galvanized Steel, Add	8.69	
05 12 23 00-0648	LF		1-1/8" Carbon Steel Rounds, ASTM A108	20.23	
			For 304 Stainless Steel, Add	48.56	
			For 316 Stainless Steel, Add	54.53	
			For Aluminum, Add	3.07	
			For Galvanized Steel, Add	10.56	
05 12 23 00-0649	LF		1-1/4" Carbon Steel Rounds, ASTM A108	24.15	
			For 304 Stainless Steel, Add	57.14	
			For 316 Stainless Steel, Add	64.16	
			For Aluminum, Add	3.61	
			For Galvanized Steel, Add	12.43	
05 12 23 00-0650	LF		1-3/8" Carbon Steel Rounds, ASTM A108	29.26	
			For 304 Stainless Steel, Add	69.74	
			For 316 Stainless Steel, Add	78.30	
			For Aluminum, Add	4.40	
			For Galvanized Steel, Add	15.17	
05 12 23 00-0651	LF		1-1/2" Carbon Steel Rounds, ASTM A108	32.59	
			For 304 Stainless Steel, Add	76.49	
			For 316 Stainless Steel, Add	85.89	
			For Aluminum, Add	4.83	
			For Galvanized Steel, Add	16.64	
05 12 23 00-0652	LF		1-5/8" Carbon Steel Rounds, ASTM A108	37.61	
			For 304 Stainless Steel, Add	86.70	
			For 316 Stainless Steel, Add	97.34	
			For Aluminum, Add	5.48	
			For Galvanized Steel, Add	18.86	
05 12 23 00-0653	LF		1-3/4" Carbon Steel Rounds, ASTM A108	44.98	
			For 304 Stainless Steel, Add	100.89	
			For 316 Stainless Steel, Add	113.28	
			For Aluminum, Add	6.37	
			For Galvanized Steel, Add	21.95	
05 12 23 00-0654	LF		1-7/8" Carbon Steel Rounds, ASTM A108	54.11	
			For 304 Stainless Steel, Add	118.19	
			For 316 Stainless Steel, Add	132.70	
			For Aluminum, Add	7.46	
			For Galvanized Steel, Add	25.71	
05 12 23 00-0655	LF		2" Carbon Steel Rounds, ASTM A108	61.74	
			For 304 Stainless Steel, Add	131.47	
			For 316 Stainless Steel, Add	147.62	
			For Aluminum, Add	8.30	
			For Galvanized Steel, Add	28.60	
05 12 23 00-0656	LF		2-1/8" Carbon Steel Rounds, ASTM A108	72.07	
			For 304 Stainless Steel, Add	150.14	
			For 316 Stainless Steel, Add	168.58	
			For Aluminum, Add	9.48	
			For Galvanized Steel, Add	32.66	
05 12 23 00-0657	LF		2-1/4" Carbon Steel Rounds, ASTM A108	81.53	
			For 304 Stainless Steel, Add	168.81	
			For 316 Stainless Steel, Add	189.54	
			For Aluminum, Add	10.66	
			For Galvanized Steel, Add	36.72	
05 12 23 00-0658	LF		2-3/8" Carbon Steel Rounds, ASTM A108	93.39	
			For 304 Stainless Steel, Add	193.09	
			For 316 Stainless Steel, Add	216.80	
			For Aluminum, Add	12.20	
			For Galvanized Steel, Add	42.01	
05 12 23 00-0659	LF		2-1/2" Carbon Steel Rounds, ASTM A108	103.12	
			For 304 Stainless Steel, Add	208.08	
			For 316 Stainless Steel, Add	233.63	
			For Aluminum, Add	13.14	
			For Galvanized Steel, Add	45.27	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0660	LF		2-5/8" Carbon Steel Rounds, ASTM A108.....	126.20	
			For 304 Stainless Steel, Add	264.31	
			For 316 Stainless Steel, Add	296.77	
			For Aluminum, Add	16.69	
			For Galvanized Steel, Add	57.50	
05 12 23 00-0661	LF		2-3/4" Carbon Steel Rounds, ASTM A108.....	143.68	
			For 304 Stainless Steel, Add	301.42	
			For 316 Stainless Steel, Add	338.43	
			For Aluminum, Add	19.04	
			For Galvanized Steel, Add	65.57	
05 12 23 00-0662	LF		2-7/8 Carbon Steel Rounds, ASTM A108.....	160.24	
			For 304 Stainless Steel, Add	335.90	
			For 316 Stainless Steel, Add	377.15	
			For Aluminum, Add	21.21	
			For Galvanized Steel, Add	73.07	
05 12 23 00-0663	LF		3" Carbon Steel Rounds, ASTM A108.....	168.24	
			For 304 Stainless Steel, Add	345.99	
			For 316 Stainless Steel, Add	388.48	
			For Aluminum, Add	21.85	
			For Galvanized Steel, Add	75.27	
05 12 23 00-0664	LF		3-1/8" Carbon Steel Rounds, ASTM A108.....	175.40	
			For 304 Stainless Steel, Add	353.66	
			For 316 Stainless Steel, Add	397.09	
			For Aluminum, Add	22.34	
			For Galvanized Steel, Add	76.94	
05 12 23 00-0665	LF		3-1/4" Carbon Steel Rounds, ASTM A108.....	184.91	
			For 304 Stainless Steel, Add	368.08	
			For 316 Stainless Steel, Add	413.28	
			For Aluminum, Add	23.25	
			For Galvanized Steel, Add	80.07	
05 12 23 00-0666	LF		3-1/2" Carbon Steel Rounds, ASTM A108.....	225.21	
			For 304 Stainless Steel, Add	467.03	
			For 316 Stainless Steel, Add	524.38	
			For Aluminum, Add	29.50	
			For Galvanized Steel, Add	101.60	
05 12 23 00-0667	LF		3-5/8" Carbon Steel Rounds, ASTM A108.....	250.24	
			For 304 Stainless Steel, Add	522.46	
			For 316 Stainless Steel, Add	586.62	
			For Aluminum, Add	33.00	
			For Galvanized Steel, Add	113.66	
05 12 23 00-0668	LF		3-3/4" Carbon Steel Rounds, ASTM A108.....	268.60	
			For 304 Stainless Steel, Add	558.89	
			For 316 Stainless Steel, Add	627.52	
			For Aluminum, Add	35.30	
			For Galvanized Steel, Add	121.58	
05 12 23 00-0669	LF		4" Carbon Steel Rounds, ASTM A108.....	301.33	
			For 304 Stainless Steel, Add	636.29	
			For 316 Stainless Steel, Add	714.43	
			For Aluminum, Add	40.19	
			For Galvanized Steel, Add	138.42	
05 12 23 00-0670			Square Stock (05 12 23 00-0422)		
05 12 23 00-0671	LF		3/8" Square Bar Stock.....	1.96	
			For 304 Stainless Steel, Add	1.88	
			For 316 Stainless Steel, Add	2.11	
			For Aluminum, Add	0.12	
			For Galvanized Steel, Add	0.41	
05 12 23 00-0672	LF		1/2" Square Bar Stock.....	2.61	
			For 304 Stainless Steel, Add	3.33	
			For 316 Stainless Steel, Add	3.74	
			For Aluminum, Add	0.21	
			For Galvanized Steel, Add	0.73	
05 12 23 00-0673	LF		5/8" Square Bar Stock.....	3.43	
			For 304 Stainless Steel, Add	5.22	
			For 316 Stainless Steel, Add	5.86	
			For Aluminum, Add	0.33	
			For Galvanized Steel, Add	1.13	
05 12 23 00-0674	LF		3/4" Square Bar Stock.....	4.55	
			For 304 Stainless Steel, Add	7.50	
			For 316 Stainless Steel, Add	8.42	
			For Aluminum, Add	0.47	
			For Galvanized Steel, Add	1.63	
05 12 23 00-0675	LF		7/8" Square Bar Stock.....	5.88	
			For 304 Stainless Steel, Add	10.46	
			For 316 Stainless Steel, Add	11.74	
			For Aluminum, Add	0.66	
			For Galvanized Steel, Add	2.28	
05 12 23 00-0676	LF		1" Square Bar Stock.....	7.30	
			For 304 Stainless Steel, Add	13.37	
			For 316 Stainless Steel, Add	15.01	
			For Aluminum, Add	0.84	
			For Galvanized Steel, Add	2.91	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0677	LF		1-1/4" Square Bar Stock	11.42	
			For 304 Stainless Steel, Add	20.86	
			For 316 Stainless Steel, Add	23.42	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.54	
05 12 23 00-0678	LF		1-1/2" Square Bar Stock	16.30	
			For 304 Stainless Steel, Add	30.07	
			For 316 Stainless Steel, Add	33.76	
			For Aluminum, Add	1.90	
			For Galvanized Steel, Add	6.54	
05 12 23 00-0679	LF		1-3/4" Square Bar Stock	24.24	
			For 304 Stainless Steel, Add	41.78	
			For 316 Stainless Steel, Add	46.91	
			For Aluminum, Add	2.64	
			For Galvanized Steel, Add	9.09	
05 12 23 00-0680	LF		2" Square Bar Stock	34.85	
			For 304 Stainless Steel, Add	53.47	
			For 316 Stainless Steel, Add	60.03	
			For Aluminum, Add	3.38	
			For Galvanized Steel, Add	11.63	
05 12 23 00-0681			Steel Tubing (05 12 23 00-0422)		
			Note: General purpose low-carbon steel.		
05 12 23 00-0682			Square Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0683			0.06" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0684	LF		1/2" x 1/2" x 0.06" Square Steel Tubing	2.55	0.62
			For >100 To 250, Deduct	-0.11	
			For >250 To 500, Deduct	-0.17	
			For >500 To 1,000, Deduct	-0.25	
			For >1,000, Deduct	-0.34	
			For 304 Stainless Steel, Add	4.90	
			For 316 Stainless Steel, Add	5.50	
			For Aluminum, Add	0.31	
			For Galvanized Steel, Add	1.07	
05 12 23 00-0685	LF		3/4" x 3/4" x 0.06" Square Steel Tubing	3.92	0.97
			For >100 To 250, Deduct	-0.16	
			For >250 To 500, Deduct	-0.26	
			For >500 To 1,000, Deduct	-0.39	
			For >1,000, Deduct	-0.52	
			For 304 Stainless Steel, Add	7.50	
			For 316 Stainless Steel, Add	8.42	
			For Aluminum, Add	0.47	
			For Galvanized Steel, Add	1.63	
05 12 23 00-0686	LF		1" x 1" x 0.06" Square Steel Tubing	5.28	1.77
			For >100 To 250, Deduct	-0.22	
			For >250 To 500, Deduct	-0.35	
			For >500 To 1,000, Deduct	-0.53	
			For >1,000, Deduct	-0.71	
			For 304 Stainless Steel, Add	10.00	
			For 316 Stainless Steel, Add	11.23	
			For Aluminum, Add	0.63	
			For Galvanized Steel, Add	2.18	
05 12 23 00-0687	LF		1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	6.96	1.68
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.46	
			For >500 To 1,000, Deduct	-0.69	
			For >1,000, Deduct	-0.92	
			For 304 Stainless Steel, Add	13.48	
			For 316 Stainless Steel, Add	15.14	
			For Aluminum, Add	0.85	
			For Galvanized Steel, Add	2.93	
05 12 23 00-0688	LF		1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	8.26	2.03
			For >100 To 250, Deduct	-0.34	
			For >250 To 500, Deduct	-0.55	
			For >500 To 1,000, Deduct	-0.82	
			For >1,000, Deduct	-1.10	
			For 304 Stainless Steel, Add	15.82	
			For 316 Stainless Steel, Add	17.76	
			For Aluminum, Add	1.00	
			For Galvanized Steel, Add	3.44	
05 12 23 00-0689			0.083" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0690	LF		3/4" x 3/4" x 0.083" Square Steel Tubing	4.57	1.14
			For >100 To 250, Deduct	-0.19	
			For >250 To 500, Deduct	-0.30	
			For >500 To 1,000, Deduct	-0.46	
			For >1,000, Deduct	-0.61	
			For 304 Stainless Steel, Add	8.69	
			For 316 Stainless Steel, Add	9.76	
			For Aluminum, Add	0.55	
			For Galvanized Steel, Add	1.89	



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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0691	LF 1" x 1" x 0.083" Square Steel Tubing.....	6.64		1.57
	For >100 To 250, Deduct	-0.27		
	For >250 To 500, Deduct	-0.44		
	For >500 To 1,000, Deduct	-0.65		
	For >1,000, Deduct	-0.87		
	For 304 Stainless Steel, Add	13.00		
	For 316 Stainless Steel, Add	14.59		
	For Aluminum, Add	0.82		
	For Galvanized Steel, Add	2.83		
05 12 23 00-0692	LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing	8.03		1.99
	For >100 To 250, Deduct	-0.33		
	For >250 To 500, Deduct	-0.53		
	For >500 To 1,000, Deduct	-0.80		
	For >1,000, Deduct	-1.07		
	For 304 Stainless Steel, Add	15.33		
	For 316 Stainless Steel, Add	17.22		
	For Aluminum, Add	0.97		
	For Galvanized Steel, Add	3.34		
05 12 23 00-0693	LF 1-1/2" x 1-1/2" x 0.083" Square Steel Tubing	9.71		2.42
	For >100 To 250, Deduct	-0.40		
	For >250 To 500, Deduct	-0.65		
	For >500 To 1,000, Deduct	-0.97		
	For >1,000, Deduct	-1.29		
	For 304 Stainless Steel, Add	18.50		
	For 316 Stainless Steel, Add	20.77		
	For Aluminum, Add	1.17		
	For Galvanized Steel, Add	4.02		
05 12 23 00-0694	LF 2" x 2" x 0.083" Square Steel Tubing.....	12.46		3.22
	For >100 To 250, Deduct	-0.53		
	For >250 To 500, Deduct	-0.84		
	For >500 To 1,000, Deduct	-1.26		
	For >1,000, Deduct	-1.68		
	For 304 Stainless Steel, Add	23.28		
	For 316 Stainless Steel, Add	26.14		
	For Aluminum, Add	1.47		
	For Galvanized Steel, Add	5.07		
05 12 23 00-0695 0.12" Wall Thickness (05 12 23 00-0692)				
05 12 23 00-0696	LF 1" x 1" x 0.12" Square Steel Tubing.....	7.34		1.86
	For >100 To 250, Deduct	-0.31		
	For >250 To 500, Deduct	-0.49		
	For >500 To 1,000, Deduct	-0.74		
	For >1,000, Deduct	-0.98		
	For 304 Stainless Steel, Add	13.85		
	For 316 Stainless Steel, Add	15.55		
	For Aluminum, Add	0.87		
	For Galvanized Steel, Add	3.01		
05 12 23 00-0697	LF 1-1/4" x 1-1/4" x 0.12" Square Steel Tubing	9.45		2.38
	For >100 To 250, Deduct	-0.40		
	For >250 To 500, Deduct	-0.63		
	For >500 To 1,000, Deduct	-0.95		
	For >1,000, Deduct	-1.26		
	For 304 Stainless Steel, Add	17.87		
	For 316 Stainless Steel, Add	20.06		
	For Aluminum, Add	1.13		
	For Galvanized Steel, Add	3.89		
05 12 23 00-0698	LF 1-1/2" x 1-1/2" x 0.12" Square Steel Tubing	11.60		2.91
	For >100 To 250, Deduct	-0.48		
	For >250 To 500, Deduct	-0.77		
	For >500 To 1,000, Deduct	-1.16		
	For >1,000, Deduct	-1.55		
	For 304 Stainless Steel, Add	21.97		
	For 316 Stainless Steel, Add	24.67		
	For Aluminum, Add	1.39		
	For Galvanized Steel, Add	4.78		
05 12 23 00-0699	LF 2" x 2" x 0.12" Square Steel Tubing.....	15.71		3.97
	For >100 To 250, Deduct	-0.66		
	For >250 To 500, Deduct	-1.05		
	For >500 To 1,000, Deduct	-1.58		
	For >1,000, Deduct	-2.10		
	For 304 Stainless Steel, Add	29.67		
	For 316 Stainless Steel, Add	33.31		
	For Aluminum, Add	1.87		
	For Galvanized Steel, Add	6.45		

05 12 23 00-0700 1/8" Wall Thickness (05 12 23 00-0692)

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0701	LF		2" x 2" x 1/8" Square Steel Tubing.....	14.17	4.12
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-0.98	
			For >500 To 1,000, Deduct	-1.48	
			For >1,000, Deduct	-1.97	
			For 304 Stainless Steel, Add	24.71	
			For 316 Stainless Steel, Add	27.74	
			For Aluminum, Add	1.56	
			For Galvanized Steel, Add	5.38	
05 12 23 00-0702	LF		2-1/2" x 2-1/2" x 1/8" Square Steel Tubing.....	18.67	5.22
			For >100 To 250, Deduct	-0.81	
			For >250 To 500, Deduct	-1.28	
			For >500 To 1,000, Deduct	-1.92	
			For >1,000, Deduct	-2.56	
			For 304 Stainless Steel, Add	33.37	
			For 316 Stainless Steel, Add	37.47	
			For Aluminum, Add	2.11	
			For Galvanized Steel, Add	7.26	
05 12 23 00-0703	LF		3" x 3" x 1/8" Square Steel Tubing.....	21.91	6.33
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.52	
			For >500 To 1,000, Deduct	-2.28	
			For >1,000, Deduct	-3.04	
			For 304 Stainless Steel, Add	38.39	
			For 316 Stainless Steel, Add	43.10	
			For Aluminum, Add	2.42	
			For Galvanized Steel, Add	8.35	
05 12 23 00-0704	LF		3-1/2" x 3-1/2" x 1/8" Square Steel Tubing.....	25.39	7.43
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-1.76	
			For >500 To 1,000, Deduct	-2.65	
			For >1,000, Deduct	-3.53	
			For 304 Stainless Steel, Add	44.15	
			For 316 Stainless Steel, Add	49.57	
			For Aluminum, Add	2.79	
			For Galvanized Steel, Add	9.60	
05 12 23 00-0705	LF		4" x 4" x 1/8" Square Steel Tubing.....	28.00	8.53
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-1.97	
			For >500 To 1,000, Deduct	-2.95	
			For >1,000, Deduct	-3.94	
			For 304 Stainless Steel, Add	47.40	
			For 316 Stainless Steel, Add	53.22	
			For Aluminum, Add	2.99	
			For Galvanized Steel, Add	10.31	
05 12 23 00-0706			3/16" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0707	LF		2" x 2" x 3/16" Square Steel Tubing.....	16.08	4.66
			For >100 To 250, Deduct	-0.71	
			For >250 To 500, Deduct	-1.11	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000, Deduct	-2.23	
			For 304 Stainless Steel, Add	28.13	
			For 316 Stainless Steel, Add	31.58	
			For Aluminum, Add	1.78	
			For Galvanized Steel, Add	6.12	
05 12 23 00-0708	LF		2-1/2" x 2-1/2" x 3/16" Square Steel Tubing.....	20.80	6.02
			For >100 To 250, Deduct	-0.92	
			For >250 To 500, Deduct	-1.44	
			For >500 To 1,000, Deduct	-2.16	
			For >1,000, Deduct	-2.88	
			For 304 Stainless Steel, Add	36.39	
			For 316 Stainless Steel, Add	40.86	
			For Aluminum, Add	2.30	
			For Galvanized Steel, Add	7.92	
05 12 23 00-0709	LF		3" x 3" x 3/16" Square Steel Tubing.....	25.56	7.41
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-1.77	
			For >500 To 1,000, Deduct	-2.66	
			For >1,000, Deduct	-3.54	
			For 304 Stainless Steel, Add	44.72	
			For 316 Stainless Steel, Add	50.21	
			For Aluminum, Add	2.82	
			For Galvanized Steel, Add	9.73	
05 12 23 00-0710	LF		3-1/2" x 3-1/2" x 3/16" Square Steel Tubing.....	30.33	8.78
			For >100 To 250, Deduct	-1.34	
			For >250 To 500, Deduct	-2.10	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000, Deduct	-4.20	
			For 304 Stainless Steel, Add	53.07	
			For 316 Stainless Steel, Add	59.58	
			For Aluminum, Add	3.35	
			For Galvanized Steel, Add	11.54	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0711	LF		4" x 4" x 3/16" Square Steel Tubing.....	35.05	10.15
			For >100 To 250, Deduct	-1.55	
			For >250 To 500, Deduct	-2.43	
			For >500 To 1,000, Deduct	-3.64	
			For >1,000, Deduct	-4.86	
			For 304 Stainless Steel, Add	61.33	
			For 316 Stainless Steel, Add	68.86	
			For Aluminum, Add	3.87	
			For Galvanized Steel, Add	13.34	
05 12 23 00-0712	LF		4-1/2" x 4-1/2" x 3/16" Square Steel Tubing	39.81	11.53
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.76	
			For >500 To 1,000, Deduct	-4.14	
			For >1,000, Deduct	-5.52	
			For 304 Stainless Steel, Add	69.65	
			For 316 Stainless Steel, Add	78.21	
			For Aluminum, Add	4.40	
			For Galvanized Steel, Add	15.15	
05 12 23 00-0713	LF		5" x 5" x 3/16" Square Steel Tubing.....	44.55	12.90
			For >100 To 250, Deduct	-1.97	
			For >250 To 500, Deduct	-3.09	
			For >500 To 1,000, Deduct	-4.63	
			For >1,000, Deduct	-6.18	
			For 304 Stainless Steel, Add	77.95	
			For 316 Stainless Steel, Add	87.52	
			For Aluminum, Add	4.92	
			For Galvanized Steel, Add	16.96	
05 12 23 00-0714	LF		6" x 6" x 3/16" Square Steel Tubing.....	54.07	15.65
			For >100 To 250, Deduct	-2.40	
			For >250 To 500, Deduct	-3.75	
			For >500 To 1,000, Deduct	-5.62	
			For >1,000, Deduct	-7.50	
			For 304 Stainless Steel, Add	94.59	
			For 316 Stainless Steel, Add	106.21	
			For Aluminum, Add	5.97	
			For Galvanized Steel, Add	20.58	
05 12 23 00-0715			1/4" Wall Thickness (05 12 23 00-0682)		
05 12 23 00-0716	LF		2" x 2" x 1/4" Square Steel Tubing.....	17.13	4.66
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.17	
			For >500 To 1,000, Deduct	-1.75	
			For >1,000, Deduct	-2.34	
			For 304 Stainless Steel, Add	31.09	
			For 316 Stainless Steel, Add	34.91	
			For Aluminum, Add	1.96	
			For Galvanized Steel, Add	6.76	
05 12 23 00-0717	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing	22.52	6.12
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.54	
			For >500 To 1,000, Deduct	-2.30	
			For >1,000, Deduct	-3.07	
			For 304 Stainless Steel, Add	40.87	
			For 316 Stainless Steel, Add	45.89	
			For Aluminum, Add	2.58	
			For Galvanized Steel, Add	8.89	
05 12 23 00-0718	LF		3" x 3" x 1/4" Square Steel Tubing.....	27.89	7.59
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.90	
			For >500 To 1,000, Deduct	-2.85	
			For >1,000, Deduct	-3.80	
			For 304 Stainless Steel, Add	50.62	
			For 316 Stainless Steel, Add	56.83	
			For Aluminum, Add	3.20	
			For Galvanized Steel, Add	11.01	
05 12 23 00-0719	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing	33.27	9.06
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-4.54	
			For 304 Stainless Steel, Add	60.39	
			For 316 Stainless Steel, Add	67.81	
			For Aluminum, Add	3.81	
			For Galvanized Steel, Add	13.14	
05 12 23 00-0720	LF		4" x 4" x 1/4" Square Steel Tubing.....	38.66	10.53
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.64	
			For >500 To 1,000, Deduct	-3.95	
			For >1,000, Deduct	-5.27	
			For 304 Stainless Steel, Add	70.17	
			For 316 Stainless Steel, Add	78.78	
			For Aluminum, Add	4.43	
			For Galvanized Steel, Add	15.26	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0721	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	44.04	12.00
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-3.00	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000, Deduct	-6.00	
			For 304 Stainless Steel, Add	79.94	
			For 316 Stainless Steel, Add	89.76	
			For Aluminum, Add	5.05	
			For Galvanized Steel, Add	17.39	
05 12 23 00-0722	LF		5" x 5" x 1/4" Square Steel Tubing.....	49.44	13.46
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-3.37	
			For >500 To 1,000, Deduct	-5.05	
			For >1,000, Deduct	-6.74	
			For 304 Stainless Steel, Add	89.75	
			For 316 Stainless Steel, Add	100.77	
			For Aluminum, Add	5.67	
			For Galvanized Steel, Add	19.52	
05 12 23 00-0723	LF		6" x 6" x 1/4" Square Steel Tubing.....	60.21	16.39
			For >100 To 250, Deduct	-2.60	
			For >250 To 500, Deduct	-4.10	
			For >500 To 1,000, Deduct	-6.16	
			For >1,000, Deduct	-8.21	
			For 304 Stainless Steel, Add	109.30	
			For 316 Stainless Steel, Add	122.72	
			For Aluminum, Add	6.90	
			For Galvanized Steel, Add	23.78	
05 12 23 00-0724			Rectangular Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0725			3/16" Wall Thickness (05 12 23 00-0724)		
05 12 23 00-0726	LF		3" x 2" x 3/16" Square Steel Tubing.....	20.80	6.02
			For >100 To 250, Deduct	-0.92	
			For >250 To 500, Deduct	-1.44	
			For >500 To 1,000, Deduct	-2.16	
			For >1,000, Deduct	-2.88	
			For 304 Stainless Steel, Add	36.39	
			For 316 Stainless Steel, Add	40.86	
			For Aluminum, Add	2.30	
			For Galvanized Steel, Add	7.92	
05 12 23 00-0727	LF		4" x 2" x 3/16" Square Steel Tubing.....	25.56	7.41
			For >100 To 250, Deduct	-1.13	
			For >250 To 500, Deduct	-1.77	
			For >500 To 1,000, Deduct	-2.66	
			For >1,000, Deduct	-3.54	
			For 304 Stainless Steel, Add	44.72	
			For 316 Stainless Steel, Add	50.21	
			For Aluminum, Add	2.82	
			For Galvanized Steel, Add	9.73	
05 12 23 00-0728	LF		4" x 3" x 3/16" Square Steel Tubing.....	30.33	8.78
			For >100 To 250, Deduct	-1.34	
			For >250 To 500, Deduct	-2.10	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000, Deduct	-4.20	
			For 304 Stainless Steel, Add	53.07	
			For 316 Stainless Steel, Add	59.58	
			For Aluminum, Add	3.35	
			For Galvanized Steel, Add	11.54	
05 12 23 00-0729	LF		5" x 2" x 3/16" Square Steel Tubing.....	30.33	8.78
			For >100 To 250, Deduct	-1.34	
			For >250 To 500, Deduct	-2.10	
			For >500 To 1,000, Deduct	-3.15	
			For >1,000, Deduct	-4.20	
			For 304 Stainless Steel, Add	53.07	
			For 316 Stainless Steel, Add	59.58	
			For Aluminum, Add	3.35	
			For Galvanized Steel, Add	11.54	
05 12 23 00-0730	LF		5" x 3" x 3/16" Square Steel Tubing.....	35.05	10.15
			For >100 To 250, Deduct	-1.55	
			For >250 To 500, Deduct	-2.43	
			For >500 To 1,000, Deduct	-3.64	
			For >1,000, Deduct	-4.86	
			For 304 Stainless Steel, Add	61.33	
			For 316 Stainless Steel, Add	68.86	
			For Aluminum, Add	3.87	
			For Galvanized Steel, Add	13.34	
05 12 23 00-0731	LF		5" x 4" x 3/16" Square Steel Tubing.....	39.81	11.53
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.76	
			For >500 To 1,000, Deduct	-4.14	
			For >1,000, Deduct	-5.52	
			For 304 Stainless Steel, Add	69.65	
			For 316 Stainless Steel, Add	78.21	
			For Aluminum, Add	4.40	
			For Galvanized Steel, Add	15.15	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0732	LF		6" x 2" x 3/16" Square Steel Tubing.....	35.05	10.15
			For >100 To 250, Deduct	-1.55	
			For >250 To 500, Deduct	-2.43	
			For >500 To 1,000, Deduct	-3.64	
			For >1,000, Deduct	-4.86	
			For 304 Stainless Steel, Add	61.33	
			For 316 Stainless Steel, Add	68.86	
			For Aluminum, Add	3.87	
			For Galvanized Steel, Add	13.34	
05 12 23 00-0733	LF		6" x 3" x 3/16" Square Steel Tubing.....	39.81	11.53
			For >100 To 250, Deduct	-1.76	
			For >250 To 500, Deduct	-2.76	
			For >500 To 1,000, Deduct	-4.14	
			For >1,000, Deduct	-5.52	
			For 304 Stainless Steel, Add	69.65	
			For 316 Stainless Steel, Add	78.21	
			For Aluminum, Add	4.40	
			For Galvanized Steel, Add	15.15	
05 12 23 00-0734	LF		6" x 4" x 3/16" Square Steel Tubing.....	44.55	12.90
			For >100 To 250, Deduct	-1.97	
			For >250 To 500, Deduct	-3.09	
			For >500 To 1,000, Deduct	-4.63	
			For >1,000, Deduct	-6.18	
			For 304 Stainless Steel, Add	77.95	
			For 316 Stainless Steel, Add	87.52	
			For Aluminum, Add	4.92	
			For Galvanized Steel, Add	16.96	
05 12 23 00-0735 1/4" Wall Thickness (05 12 23 00-0724)					
05 12 23 00-0736	LF		3" x 2" x 1/4" Square Steel Tubing.....	22.52	6.12
			For >100 To 250, Deduct	-0.97	
			For >250 To 500, Deduct	-1.54	
			For >500 To 1,000, Deduct	-2.30	
			For >1,000, Deduct	-3.07	
			For 304 Stainless Steel, Add	40.87	
			For 316 Stainless Steel, Add	45.89	
			For Aluminum, Add	2.58	
			For Galvanized Steel, Add	8.89	
05 12 23 00-0737	LF		4" x 2" x 1/4" Square Steel Tubing.....	27.89	7.59
			For >100 To 250, Deduct	-1.20	
			For >250 To 500, Deduct	-1.90	
			For >500 To 1,000, Deduct	-2.85	
			For >1,000, Deduct	-3.80	
			For 304 Stainless Steel, Add	50.62	
			For 316 Stainless Steel, Add	56.83	
			For Aluminum, Add	3.20	
			For Galvanized Steel, Add	11.01	
05 12 23 00-0738	LF		4" x 3" x 1/4" Square Steel Tubing.....	33.27	9.06
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-4.54	
			For 304 Stainless Steel, Add	60.39	
			For 316 Stainless Steel, Add	67.81	
			For Aluminum, Add	3.81	
			For Galvanized Steel, Add	13.14	
05 12 23 00-0739	LF		5" x 2" x 1/4" Square Steel Tubing.....	33.27	9.06
			For >100 To 250, Deduct	-1.44	
			For >250 To 500, Deduct	-2.27	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-4.54	
			For 304 Stainless Steel, Add	60.39	
			For 316 Stainless Steel, Add	67.81	
			For Aluminum, Add	3.81	
			For Galvanized Steel, Add	13.14	
05 12 23 00-0740	LF		5" x 3" x 1/4" Square Steel Tubing.....	38.66	10.53
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.64	
			For >500 To 1,000, Deduct	-3.95	
			For >1,000, Deduct	-5.27	
			For 304 Stainless Steel, Add	70.17	
			For 316 Stainless Steel, Add	78.78	
			For Aluminum, Add	4.43	
			For Galvanized Steel, Add	15.26	
05 12 23 00-0741	LF		5" x 4" x 1/4" Square Steel Tubing.....	44.04	12.00
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-3.00	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000, Deduct	-6.00	
			For 304 Stainless Steel, Add	79.94	
			For 316 Stainless Steel, Add	89.76	
			For Aluminum, Add	5.05	
			For Galvanized Steel, Add	17.39	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0742	LF		6" x 2" x 1/4" Square Steel Tubing.....	38.66	10.53
			For >100 To 250, Deduct	-1.67	
			For >250 To 500, Deduct	-2.64	
			For >500 To 1,000, Deduct	-3.95	
			For >1,000, Deduct	-5.27	
			For 304 Stainless Steel, Add	70.17	
			For 316 Stainless Steel, Add	78.78	
			For Aluminum, Add	4.43	
			For Galvanized Steel, Add	15.26	
05 12 23 00-0743	LF		6" x 3" x 1/4" Square Steel Tubing.....	44.04	12.00
			For >100 To 250, Deduct	-1.90	
			For >250 To 500, Deduct	-3.00	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000, Deduct	-6.00	
			For 304 Stainless Steel, Add	79.94	
			For 316 Stainless Steel, Add	89.76	
			For Aluminum, Add	5.05	
			For Galvanized Steel, Add	17.39	
05 12 23 00-0744	LF		6" x 4" x 1/4" Square Steel Tubing.....	49.44	13.46
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-3.37	
			For >500 To 1,000, Deduct	-5.05	
			For >1,000, Deduct	-6.74	
			For 304 Stainless Steel, Add	89.75	
			For 316 Stainless Steel, Add	100.77	
			For Aluminum, Add	5.67	
			For Galvanized Steel, Add	19.52	
05 12 23 00-0745			Round Steel Tubing (05 12 23 00-0681)		
05 12 23 00-0746			0.065" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0747	LF		1" Diameter x 0.065" Round Steel Tubing	4.57	1.12
			For >100 To 250, Deduct	-0.19	
			For >250 To 500, Deduct	-0.30	
			For >500 To 1,000, Deduct	-0.46	
			For >1,000, Deduct	-0.61	
			For 304 Stainless Steel, Add	8.75	
			For 316 Stainless Steel, Add	9.82	
			For Aluminum, Add	0.55	
			For Galvanized Steel, Add	1.90	
05 12 23 00-0748	LF		1-1/4" Diameter x 0.065" Round Steel Tubing	5.78	1.41
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.38	
			For >500 To 1,000, Deduct	-0.58	
			For >1,000, Deduct	-0.77	
			For 304 Stainless Steel, Add	11.09	
			For 316 Stainless Steel, Add	12.45	
			For Aluminum, Add	0.70	
			For Galvanized Steel, Add	2.41	
05 12 23 00-0749	LF		1-1/2" Diameter x 0.065" Round Steel Tubing	6.99	1.72
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.46	
			For >500 To 1,000, Deduct	-0.70	
			For >1,000, Deduct	-0.93	
			For 304 Stainless Steel, Add	13.40	
			For 316 Stainless Steel, Add	15.04	
			For Aluminum, Add	0.85	
			For Galvanized Steel, Add	2.91	
05 12 23 00-0750	LF		2" Diameter x 0.065" Round Steel Tubing	9.42	2.31
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.63	
			For >500 To 1,000, Deduct	-0.94	
			For >1,000, Deduct	-1.25	
			For 304 Stainless Steel, Add	18.07	
			For 316 Stainless Steel, Add	20.29	
			For Aluminum, Add	1.14	
			For Galvanized Steel, Add	3.93	
05 12 23 00-0751	LF		2-1/2" Diameter x 0.065" Round Steel Tubing	11.86	2.91
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.79	
			For >500 To 1,000, Deduct	-1.18	
			For >1,000, Deduct	-1.57	
			For 304 Stainless Steel, Add	22.74	
			For 316 Stainless Steel, Add	25.54	
			For Aluminum, Add	1.44	
			For Galvanized Steel, Add	4.95	
05 12 23 00-0752	LF		3" Diameter x 0.065" Round Steel Tubing	14.30	3.52
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-0.95	
			For >500 To 1,000, Deduct	-1.42	
			For >1,000, Deduct	-1.90	
			For 304 Stainless Steel, Add	27.42	
			For 316 Stainless Steel, Add	30.78	
			For Aluminum, Add	1.73	
			For Galvanized Steel, Add	5.96	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0753	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	16.74	4.11
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.11	
			For >500 To 1,000, Deduct	-1.67	
			For >1,000, Deduct	-2.22	
			For 304 Stainless Steel, Add	32.09	
			For 316 Stainless Steel, Add	36.03	
			For Aluminum, Add	2.03	
			For Galvanized Steel, Add	6.98	
05 12 23 00-0754	LF		4" Diameter x 0.065" Round Steel Tubing	19.18	4.71
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.27	
			For >500 To 1,000, Deduct	-1.91	
			For >1,000, Deduct	-2.55	
			For 304 Stainless Steel, Add	36.77	
			For 316 Stainless Steel, Add	41.28	
			For Aluminum, Add	2.32	
			For Galvanized Steel, Add	8.00	
05 12 23 00-0755			0.083" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0756	LF		1" Diameter x 0.083" Round Steel Tubing	4.96	1.22
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.33	
			For >500 To 1,000, Deduct	-0.50	
			For >1,000, Deduct	-0.66	
			For 304 Stainless Steel, Add	9.46	
			For 316 Stainless Steel, Add	10.62	
			For Aluminum, Add	0.60	
			For Galvanized Steel, Add	2.06	
05 12 23 00-0757	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	6.30	1.56
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.42	
			For >500 To 1,000, Deduct	-0.63	
			For >1,000, Deduct	-0.84	
			For 304 Stainless Steel, Add	12.03	
			For 316 Stainless Steel, Add	13.50	
			For Aluminum, Add	0.76	
			For Galvanized Steel, Add	2.62	
05 12 23 00-0758	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	7.65	1.89
			For >100 To 250, Deduct	-0.32	
			For >250 To 500, Deduct	-0.51	
			For >500 To 1,000, Deduct	-0.76	
			For >1,000, Deduct	-1.02	
			For 304 Stainless Steel, Add	14.59	
			For 316 Stainless Steel, Add	16.38	
			For Aluminum, Add	0.92	
			For Galvanized Steel, Add	3.17	
05 12 23 00-0759	LF		2" Diameter x 0.083" Round Steel Tubing	10.35	2.57
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.69	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.38	
			For 304 Stainless Steel, Add	19.75	
			For 316 Stainless Steel, Add	22.18	
			For Aluminum, Add	1.25	
			For Galvanized Steel, Add	4.30	
05 12 23 00-0760	LF		2-1/2" Diameter x 0.083" Round Steel Tubing	13.06	3.23
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-0.87	
			For >500 To 1,000, Deduct	-1.30	
			For >1,000, Deduct	-1.74	
			For 304 Stainless Steel, Add	24.91	
			For 316 Stainless Steel, Add	27.97	
			For Aluminum, Add	1.57	
			For Galvanized Steel, Add	5.42	
05 12 23 00-0761	LF		3" Diameter x 0.083" Round Steel Tubing	15.75	3.90
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.05	
			For >500 To 1,000, Deduct	-1.57	
			For >1,000, Deduct	-2.10	
			For 304 Stainless Steel, Add	30.07	
			For 316 Stainless Steel, Add	33.76	
			For Aluminum, Add	1.90	
			For Galvanized Steel, Add	6.54	
05 12 23 00-0762	LF		3-1/2" Diameter x 0.083" Round Steel Tubing	18.45	4.57
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.23	
			For >500 To 1,000, Deduct	-1.84	
			For >1,000, Deduct	-2.45	
			For 304 Stainless Steel, Add	35.23	
			For 316 Stainless Steel, Add	39.55	
			For Aluminum, Add	2.22	
			For Galvanized Steel, Add	7.66	

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

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0763	LF	4" Diameter x 0.083" Round Steel Tubing	21.14	5.23
		For >100 To 250, Deduct	-0.88	
		For >250 To 500, Deduct	-1.41	
		For >500 To 1,000, Deduct	-2.11	
		For >1,000, Deduct	-2.81	
		For 304 Stainless Steel, Add	40.36	
		For 316 Stainless Steel, Add	45.31	
		For Aluminum, Add	2.55	
		For Galvanized Steel, Add	8.78	
05 12 23 00-0764		0.125" Wall Thickness (05 12 23 00-0745)		
05 12 23 00-0765	LF	2" Diameter x 0.125" Round Steel Tubing	11.12	3.23
		For >100 To 250, Deduct	-0.49	
		For >250 To 500, Deduct	-0.77	
		For >500 To 1,000, Deduct	-1.16	
		For >1,000, Deduct	-1.54	
		For 304 Stainless Steel, Add	19.38	
		For 316 Stainless Steel, Add	21.76	
		For Aluminum, Add	1.22	
		For Galvanized Steel, Add	4.22	
05 12 23 00-0766	LF	2-1/2" Diameter x 0.125" Round Steel Tubing	14.09	4.10
		For >100 To 250, Deduct	-0.63	
		For >250 To 500, Deduct	-0.98	
		For >500 To 1,000, Deduct	-1.47	
		For >1,000, Deduct	-1.96	
		For 304 Stainless Steel, Add	24.57	
		For 316 Stainless Steel, Add	27.58	
		For Aluminum, Add	1.55	
		For Galvanized Steel, Add	5.34	
05 12 23 00-0767	LF	3" Diameter x 0.125" Round Steel Tubing	17.05	4.96
		For >100 To 250, Deduct	-0.76	
		For >250 To 500, Deduct	-1.18	
		For >500 To 1,000, Deduct	-1.78	
		For >1,000, Deduct	-2.37	
		For 304 Stainless Steel, Add	29.73	
		For 316 Stainless Steel, Add	33.38	
		For Aluminum, Add	1.88	
		For Galvanized Steel, Add	6.47	
05 12 23 00-0768	LF	3-1/2" Diameter x 0.125" Round Steel Tubing	20.02	5.83
		For >100 To 250, Deduct	-0.89	
		For >250 To 500, Deduct	-1.39	
		For >500 To 1,000, Deduct	-2.08	
		For >1,000, Deduct	-2.78	
		For 304 Stainless Steel, Add	34.91	
		For 316 Stainless Steel, Add	39.20	
		For Aluminum, Add	2.21	
		For Galvanized Steel, Add	7.60	
05 12 23 00-0769	LF	4" Diameter x 0.125" Round Steel Tubing	22.98	6.69
		For >100 To 250, Deduct	-1.02	
		For >250 To 500, Deduct	-1.60	
		For >500 To 1,000, Deduct	-2.39	
		For >1,000, Deduct	-3.19	
		For 304 Stainless Steel, Add	40.07	
		For 316 Stainless Steel, Add	44.99	
		For Aluminum, Add	2.53	
		For Galvanized Steel, Add	8.72	
05 12 23 00-0770		Flat Steel Bar (05 12 23 00-0422)		
05 12 23 00-0771		1/8" Thick (05 12 23 00-0770)		
05 12 23 00-0772	LF	1/8" Thick x 1" Wide Flat Steel Bar	3.44	1.61
		For 304 Stainless Steel, Add	2.91	
		For 316 Stainless Steel, Add	3.26	
		For Aluminum, Add	0.18	
		For Galvanized Steel, Add	0.63	
05 12 23 00-0773	LF	1/8" Thick x 2" Wide Flat Steel Bar	5.32	2.42
		For 304 Stainless Steel, Add	4.85	
		For 316 Stainless Steel, Add	5.44	
		For Aluminum, Add	0.31	
		For Galvanized Steel, Add	1.05	
05 12 23 00-0774	LF	1/8" Thick x 4" Wide Flat Steel Bar	8.19	3.41
		For 304 Stainless Steel, Add	8.81	
		For 316 Stainless Steel, Add	9.89	
		For Aluminum, Add	0.56	
		For Galvanized Steel, Add	1.92	
05 12 23 00-0775	LF	1/8" Thick x 6" Wide Flat Steel Bar	11.10	4.62
		For 304 Stainless Steel, Add	11.88	
		For 316 Stainless Steel, Add	13.34	
		For Aluminum, Add	0.75	
		For Galvanized Steel, Add	2.59	
05 12 23 00-0776		3/16" Thick (05 12 23 00-0770)		



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0777	LF		3/16" Thick x 1" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	4.55 4.42 4.96 0.28 0.96	2.00
05 12 23 00-0778	LF		3/16" Thick x 2" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	7.19 7.64 8.58 0.48 1.66	3.00
05 12 23 00-0779	LF		3/16" Thick x 4" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	9.69 12.88 14.46 0.81 2.80	3.45
05 12 23 00-0780	LF		3/16" Thick x 6" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	13.43 17.81 20.00 1.13 3.88	4.78
05 12 23 00-0781			1/4" Thick (05 12 23 00-0770)		
05 12 23 00-0782	LF		1/4" Thick x 1" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	4.70 4.36 4.90 0.28 0.95	2.11
05 12 23 00-0783	LF		1/4" Thick x 2" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	7.86 8.84 9.92 0.56 1.92	3.17
05 12 23 00-0784	LF		1/4" Thick x 4" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	11.45 17.13 19.23 1.08 3.73	3.62
05 12 23 00-0785	LF		1/4" Thick x 6" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	16.55 24.25 27.23 1.53 5.28	5.36
05 12 23 00-0786			3/8" Thick (05 12 23 00-0770)		
05 12 23 00-0787	LF		3/8" Thick x 1" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	5.99 6.87 7.71 0.43 1.49	2.37
05 12 23 00-0788	LF		3/8" Thick x 2" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	9.80 12.65 14.21 0.80 2.75	3.57
05 12 23 00-0789	LF		3/8" Thick x 4" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	15.00 25.34 28.45 1.60 5.51	4.07
05 12 23 00-0790	LF		3/8" Thick x 6" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	21.56 35.63 40.00 2.25 7.75	6.02
05 12 23 00-0791			1/2" Thick (05 12 23 00-0770)		
05 12 23 00-0792	LF		1/2" Thick x 1" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	7.02 8.81 9.89 0.56 1.92	2.61
05 12 23 00-0793	LF		1/2" Thick x 2" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	11.56 16.16 18.14 1.02 3.52	3.93
05 12 23 00-0794	LF		1/2" Thick x 4" Wide Flat Steel Bar <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i>	16.38 27.53 30.91 1.74 5.99	4.47

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0795	LF		1/2" Thick x 6" Wide Flat Steel Bar For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	29.22 54.92 61.66 3.47 11.95	6.63
05 12 23 00-0796			Flat Steel Plate (05 12 23 00-0422)		
05 12 23 00-0797	SF		1/8" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	17.67 20.72 23.26 1.31 4.51	6.93
05 12 23 00-0798	SF		3/16" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	19.87 25.94 29.12 1.64 5.64	7.18
05 12 23 00-0799	SF		1/4" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	23.67 33.06 37.12 2.09 7.19	8.03
05 12 23 00-0800	SF		3/8" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	31.78 51.90 58.27 3.28 11.29	9.04
05 12 23 00-0801	SF		1/2" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	37.61 64.64 72.58 4.08 14.06	9.94
05 12 23 00-0802	SF		3/4" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	61.21 121.24 136.13 7.66 26.37	12.32
05 12 23 00-0803	SF		1" Thick Flat Steel Plate For 304 Stainless Steel, Add For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add	81.56 165.98 186.37 10.48 36.11	15.40
05 12 33			Structural Steel for Bridges (05 12) See CSI section 05 12 23 00-0000 for structural steel, 34 05 43 00-0408 for bridge girder repair.		
05 14			Structural Aluminum Framing (05 10)		
05 14 13			Architecturally-Exposed Structural Aluminum Framing (05 14)		
05 14 13 00-0001			Rolled Or Plate Shapes (05 14 13) Note: 1" through 10" member.		
05 14 13 00-0002	LB		Structural Aluminum, Up To 2,000 Lb. / Order 1" To 10" Rolled / Plate Structural Members	9.32	0.93
05 14 13 00-0003	LB		Structural Aluminum, >2,000 - 9,999 Lb. / Order 1" To 10" Rolled / Plate Structural Members	8.22	0.86
05 14 13 00-0004			Aluminum Extrusions (05 14 13)		
05 14 13 00-0005	LB		Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	15.34	3.86
05 14 13 00-0006	LB		Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members	16.23	3.86
05 14 13 00-0007			Aluminum Tubing (05 14 13)		
05 14 13 00-0008	LB		Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	13.68	3.91
05 14 13 00-0009	LF		1" x 1" Aluminum Tubing, 1/8" Wall Thickness	12.40	6.33
05 14 13 00-0010	LF		1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	14.96	6.89
05 14 13 00-0011	LF		1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	17.18	8.04
05 14 13 00-0012	LF		2" x 2" Aluminum Tubing, 1/8" Wall Thickness	20.40	8.62
05 14 13 00-0013	LF		4" x 4" Aluminum Tubing, 1/4" Wall Thickness	58.97	10.91
05 14 13 00-0014	LF		2" x 5" Aluminum Tubing, 1/4" Wall Thickness	48.32	9.77
05 14 13 00-0015			Columns (05 14 13) Note: Baked on paint finish, load bearing.		
05 14 13 00-0016			Round Columns (05 14 13 00-0015)		
05 14 13 00-0017	LF		6" Diameter Aluminum Column	54.37	7.48
05 14 13 00-0018	LF		8" Diameter Aluminum Column	72.30	10.70
05 14 13 00-0019	LF		10" Diameter Aluminum Column	88.29	12.04
05 14 13 00-0020	LF		12" Diameter Aluminum Column	132.89	12.60
05 14 13 00-0021	LF		15" Diameter Aluminum Column	169.70	14.61
05 14 13 00-0022	EA		6" Diameter Aluminum Base And Cap	105.67	13.94
05 14 13 00-0023	EA		8" Diameter Aluminum Base And Cap	121.02	15.05



	Metals	05	05
	Structural Metal Framing	05 10	
	Structural Aluminum Framing	05 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
05 14 13 00-0024	EA	10" Diameter Aluminum Base And Cap	152.95	16.72	
05 14 13 00-0025	EA	12" Diameter Aluminum Base And Cap	265.30	17.85	
05 14 13 00-0026	EA	15" Diameter Aluminum Base And Cap	406.89	19.52	
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)					
05 14 13 00-0028	LF	6" Diameter Aluminum Column	60.65	7.48	
05 14 13 00-0029	LF	8" Diameter Aluminum Column	82.47	10.70	
05 14 13 00-0030	LF	10" Diameter Aluminum Column	101.13	12.04	
05 14 13 00-0031	LF	12" Diameter Aluminum Column	154.44	12.60	
05 14 13 00-0032	LF	15" Diameter Aluminum Column	197.81	14.61	
05 14 13 00-0033	EA	6" Diameter Aluminum Base And Cap	121.22	13.94	
05 14 13 00-0034	EA	8" Diameter Aluminum Base And Cap	139.20	15.05	
05 14 13 00-0035	EA	10" Diameter Aluminum Base And Cap	176.85	16.72	
05 14 13 00-0036	EA	12" Diameter Aluminum Base And Cap	311.22	17.85	
05 14 13 00-0037	EA	15" Diameter Aluminum Base And Cap	480.46	19.52	
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)					
05 14 13 00-0039	LF	6" Diameter Aluminum Column	67.52	7.48	
05 14 13 00-0040	LF	8" Diameter Aluminum Column	91.62	10.70	
05 14 13 00-0041	LF	10" Diameter Aluminum Column	112.68	12.04	
05 14 13 00-0042	LF	12" Diameter Aluminum Column	173.84	12.60	
05 14 13 00-0043	LF	15" Diameter Aluminum Column	223.12	14.61	
05 14 13 00-0044	EA	6" Diameter Aluminum Base And Cap	135.23	13.94	
05 14 13 00-0045	EA	8" Diameter Aluminum Base And Cap	155.56	15.05	
05 14 13 00-0046	EA	10" Diameter Aluminum Base And Cap	198.36	16.72	
05 14 13 00-0047	EA	12" Diameter Aluminum Base And Cap	352.55	17.85	
05 14 13 00-0048	EA	15" Diameter Aluminum Base And Cap	546.67	19.52	
05 14 13 00-0049 Square Columns (05 14 13 00-0015)					
05 14 13 00-0050	LF	6" Aluminum Column	72.22	7.48	
05 14 13 00-0051	LF	8" Aluminum Column	97.88	10.70	
05 14 13 00-0052	LF	10" Aluminum Column	120.59	12.04	
05 14 13 00-0053	LF	12" Aluminum Column	187.11	12.60	
05 14 13 00-0054	LF	15" Aluminum Column	240.42	14.61	
05 14 13 00-0055	EA	6" Aluminum Base And Cap	144.80	13.94	
05 14 13 00-0056	EA	8" Aluminum Base And Cap	166.75	15.05	
05 14 13 00-0057	EA	10" Aluminum Base And Cap	213.07	16.72	
05 14 13 00-0058	EA	12" Aluminum Base And Cap	380.82	17.85	
05 14 13 00-0059	EA	15" Aluminum Base And Cap	591.95	19.52	
05 14 13 00-0060 Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)					
05 14 13 00-0061	EA	8" Corinthian Capital And Base	825.39	16.72	
05 14 13 00-0062	EA	10" Corinthian Capital And Base	1,215.08	19.52	
05 14 13 00-0063	EA	12" Corinthian Capital And Base	1,922.91	22.30	
05 14 13 00-0064	EA	8" Scamozzi Capital And Base	409.12	16.72	
05 14 13 00-0065	EA	10" Scamozzi Capital And Base	548.38	19.52	
05 14 13 00-0066	EA	12" Scamozzi Capital And Base	1,104.58	22.30	

05 15 Wire Rope Assemblies (05 10)

05 15 16 Steel Wire Rope Assemblies (05 15)

05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)

05 15 16 00-0002	LF	1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	1.52	0.11	
		For >500, Deduct	-0.27		
05 15 16 00-0003	LF	5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.05	0.11	
		For >500, Deduct	-0.35		
05 15 16 00-0004	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.45	0.23	
		For >500, Deduct	-0.40		
05 15 16 00-0005	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	2.96	0.23	
		For >500, Deduct	-0.47		
05 15 16 00-0006	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	3.44	0.34	
		For >500, Deduct	-0.53		
05 15 16 00-0007	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	4.22	0.45	
		For >500, Deduct	-0.64		
05 15 16 00-0008	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope	5.04	0.45	
		For >500, Deduct	-0.76		

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 15 16 00-0009	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.00		0.81
		<i>For >500, Deduct</i>	-1.04		
05 15 16 00-0010	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.42		0.92
		<i>For >500, Deduct</i>	-1.39		
05 15 16 00-0011	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.75		1.26
		<i>For >500, Deduct</i>	-1.70		
05 15 16 00-0012	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	14.53		1.61
		<i>For >500, Deduct</i>	-2.10		
05 15 16 00-0013	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	17.71		1.95
		<i>For >500, Deduct</i>	-2.56		
05 15 16 00-0014 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)					
05 15 16 00-0015	LF	1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.78		0.11
		<i>For >500, Deduct</i>	-0.32		
05 15 16 00-0016	LF	5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.32		0.11
		<i>For >500, Deduct</i>	-0.40		
05 15 16 00-0017	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.89		0.23
		<i>For >500, Deduct</i>	-0.49		
05 15 16 00-0018	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.29		0.23
		<i>For >500, Deduct</i>	-0.54		
05 15 16 00-0019	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.93		0.34
		<i>For >500, Deduct</i>	-0.63		
05 15 16 00-0020	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.53		0.45
		<i>For >500, Deduct</i>	-0.70		
05 15 16 00-0021	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.31		0.45
		<i>For >500, Deduct</i>	-0.81		
05 15 16 00-0022	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.79		0.81
		<i>For >500, Deduct</i>	-1.20		
05 15 16 00-0023	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.99		0.92
		<i>For >500, Deduct</i>	-1.51		
05 15 16 00-0024	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.31		1.26
		<i>For >500, Deduct</i>	-1.82		
05 15 16 00-0025	LF	1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	15.78		1.61
		<i>For >500, Deduct</i>	-2.33		
05 15 16 00-0026	LF	1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	19.18		1.95
		<i>For >500, Deduct</i>	-2.85		
05 15 16 00-0027 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope (05 15 16)					
05 15 16 00-0028	LF	1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.41		0.11
		<i>For >500, Deduct</i>	-0.24		
05 15 16 00-0029	LF	5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.93		0.11
		<i>For >500, Deduct</i>	-0.32		
05 15 16 00-0030	LF	3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.31		0.23
		<i>For >500, Deduct</i>	-0.37		
05 15 16 00-0031	LF	7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.72		0.23
		<i>For >500, Deduct</i>	-0.42		
05 15 16 00-0032	LF	1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.28		0.34
		<i>For >500, Deduct</i>	-0.50		
05 15 16 00-0033	LF	9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.15		0.45
		<i>For >500, Deduct</i>	-0.63		
05 15 16 00-0034	LF	5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.85		0.45
		<i>For >500, Deduct</i>	-0.72		
05 15 16 00-0035	LF	3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.83		0.81
		<i>For >500, Deduct</i>	-1.00		
05 15 16 00-0036	LF	7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.39		0.92
		<i>For >500, Deduct</i>	-1.19		
05 15 16 00-0037	LF	1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	10.67		1.26
		<i>For >500, Deduct</i>	-1.48		
05 15 16 00-0038 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)					



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0039	LF	1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	1.40 -0.24	0.11
05 15 16 00-0040	LF	5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	1.86 -0.31	0.11
05 15 16 00-0041	LF	3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	2.31 -0.37	0.23
05 15 16 00-0042	LF	7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	2.72 -0.42	0.23
05 15 16 00-0043	LF	1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	3.42 -0.53	0.34
05 15 16 00-0044	LF	9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	4.08 -0.61	0.45
05 15 16 00-0045	LF	5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	5.11 -0.77	0.45
05 15 16 00-0046	LF	3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	7.14 -1.07	0.81
05 15 16 00-0047	LF	7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	9.35 -1.38	0.92
05 15 16 00-0048	LF	1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	11.54 -1.67	1.26
05 15 16 00-0049		6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope (05 15 16)		
05 15 16 00-0050	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	2.61 -0.43	0.23
05 15 16 00-0051	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.07 -0.49	0.23
05 15 16 00-0052	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.60 -0.56	0.34
05 15 16 00-0053	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	4.83 -0.76	0.45
05 15 16 00-0054	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.34 -0.82	0.45
05 15 16 00-0055	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	7.30 -1.10	0.81
05 15 16 00-0056	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	9.38 -1.38	0.92
05 15 16 00-0057	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	12.37 -1.82	1.26
05 15 16 00-0058	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	14.99 -2.19	1.61
05 15 16 00-0059	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	18.09 -2.63	1.95
05 15 16 00-0060		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope (05 15 16)		
05 15 16 00-0061	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	2.68 -0.45	0.23
05 15 16 00-0062	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.24 -0.53	0.23
05 15 16 00-0063	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.84 -0.61	0.34
05 15 16 00-0064	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.35 -0.87	0.45
05 15 16 00-0065	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.43 -0.84	0.45
05 15 16 00-0066	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	7.47 -1.13	0.81
05 15 16 00-0067	LF	7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	9.91 -1.49	0.92
05 15 16 00-0068	LF	1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	12.54 -1.86	1.26

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 15 16 00-0069	19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope (05 15 16)		
05 15 16 00-0070	LF 1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	2.73	0.11
	For >500, Deduct	-0.50	
05 15 16 00-0071	LF 5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	2.95	0.11
	For >500, Deduct	-0.53	
05 15 16 00-0072	LF 3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.50	0.23
	For >500, Deduct	-0.61	
05 15 16 00-0073	LF 7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	4.69	0.23
	For >500, Deduct	-0.82	
05 15 16 00-0074	LF 1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.34	0.23
	For >500, Deduct	-0.95	
05 15 16 00-0075	LF 9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	6.19	0.45
	For >500, Deduct	-1.04	
05 15 16 00-0076	LF 5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	7.38	0.45
	For >500, Deduct	-1.23	
05 15 16 00-0077	LF 3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	10.16	0.69
	For >500, Deduct	-1.68	
05 15 16 00-0078	7x7, Galvanized Finish, Aircraft Cable (05 15 16)		
05 15 16 00-0079	LF 1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.32	0.08
	For >500, Deduct	-0.04	
05 15 16 00-0080	LF 3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.36	0.09
	For >500, Deduct	-0.04	
05 15 16 00-0081	LF 1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.41	0.10
	For >500, Deduct	-0.05	
05 15 16 00-0082	LF 5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.48	0.11
	For >500, Deduct	-0.06	
05 15 16 00-0083	LF 3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.58	0.11
	For >500, Deduct	-0.07	
05 15 16 00-0084	7x19, Galvanized Finish, Aircraft Cable (05 15 16)		
05 15 16 00-0085	LF 1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.57	0.10
	For >500, Deduct	-0.08	
05 15 16 00-0086	LF 5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.62	0.11
	For >500, Deduct	-0.09	
05 15 16 00-0087	LF 3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.70	0.11
	For >500, Deduct	-0.10	
05 15 16 00-0088	LF 1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.82	0.11
	For >500, Deduct	-0.13	
05 15 16 00-0089	LF 5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.25	0.11
	For >500, Deduct	-0.19	
05 15 16 00-0090	LF 3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.68	0.11
	For >500, Deduct	-0.25	
05 15 16 00-0091	Heavy-Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)		
05 15 16 00-0092	EA 1/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	14.80	3.45
05 15 16 00-0093	EA 5/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	16.85	3.45
05 15 16 00-0094	EA 3/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	19.12	3.45
05 15 16 00-0095	EA 7/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	25.35	3.45
05 15 16 00-0096	EA 1/2" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	25.39	3.45
05 15 16 00-0097	EA 9/16" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	25.39	3.45
05 15 16 00-0098	EA 5/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	27.50	3.45
05 15 16 00-0099	EA 3/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	50.39	5.29
05 15 16 00-0100	EA 7/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	59.42	6.44
05 15 16 00-0101	EA 1" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	105.88	10.57
05 15 16 00-0102	EA 1-1/8" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	152.11	14.37
05 15 16 00-0103	EA 1-1/4" Diameter, Heavy-Duty, Galvanized Steel, Wire Rope Thimble	152.11	14.37
05 15 16 00-0104	Galvanized Steel, Wire Rope Clips (05 15 16)		
05 15 16 00-0105	EA 1/8" Diameter, Galvanized Steel, Wire Rope Clip	17.88	3.45
05 15 16 00-0106	EA 3/16" Diameter, Galvanized Steel, Wire Rope Clip	18.27	3.45
05 15 16 00-0107	EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip	20.98	3.45
05 15 16 00-0108	EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip	21.40	3.45
05 15 16 00-0109	EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip	22.01	3.45
05 15 16 00-0110	EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip	27.82	3.45
05 15 16 00-0111	EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip	28.26	3.45
05 15 16 00-0112	EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip	32.45	3.45
05 15 16 00-0113	EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip	33.05	3.45



Metals			05	05
Structural Metal Framing			05 10	
Wire Rope Assemblies			05 15	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
05 15 16 00-0114	EA	3/4" Diameter, Galvanized Steel, Wire Rope Clip	45.22	4.60
05 15 16 00-0115	EA	7/8" Diameter, Galvanized Steel, Wire Rope Clip	67.52	6.89
05 15 16 00-0116	EA	1" Diameter, Galvanized Steel, Wire Rope Clip	74.37	6.89
05 15 16 00-0117	EA	1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	87.23	9.20
05 15 16 00-0118	EA	1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	126.68	13.79
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)				
05 15 16 00-0120	EA	1/4" Diameter, Steel, Open Swage Socket	101.69	3.45
05 15 16 00-0121	EA	5/16" Diameter, Steel, Open Swage Socket	162.59	3.45
05 15 16 00-0122	EA	3/8" Diameter, Steel, Open Swage Socket	167.14	4.60
05 15 16 00-0123	EA	7/16" Diameter, Steel, Open Swage Socket	198.48	5.75
05 15 16 00-0124	EA	1/2" Diameter, Steel, Open Swage Socket	198.48	5.75
05 15 16 00-0125	EA	9/16" Diameter, Steel, Open Swage Socket	289.11	12.64
05 15 16 00-0126	EA	5/8" Diameter, Steel, Open Swage Socket	289.11	12.64
05 15 16 00-0127	EA	3/4" Diameter, Steel, Open Swage Socket	367.19	24.13
05 15 16 00-0128	EA	7/8" Diameter, Steel, Open Swage Socket	493.77	34.48
05 15 16 00-0129	EA	1" Diameter, Steel, Open Swage Socket	693.67	52.87
05 15 16 00-0130	EA	1-1/8" Diameter, Steel, Open Swage Socket	906.79	82.76
05 15 16 00-0131	EA	1-1/4" Diameter, Steel, Open Swage Socket	1,055.72	95.40
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)				
05 15 16 00-0133	EA	1/4" Diameter, Steel, Closed Swage Socket	81.62	3.45
05 15 16 00-0134	EA	5/16" Diameter, Steel, Closed Swage Socket	110.81	3.45
05 15 16 00-0135	EA	3/8" Diameter, Steel, Closed Swage Socket	110.81	3.45
05 15 16 00-0136	EA	7/16" Diameter, Steel, Closed Swage Socket	137.98	4.60
05 15 16 00-0137	EA	1/2" Diameter, Steel, Closed Swage Socket	139.25	4.60
05 15 16 00-0138	EA	9/16" Diameter, Steel, Closed Swage Socket	190.38	8.04
05 15 16 00-0139	EA	5/8" Diameter, Steel, Closed Swage Socket	195.85	9.20
05 15 16 00-0140	EA	3/4" Diameter, Steel, Closed Swage Socket	241.44	14.95
05 15 16 00-0141	EA	7/8" Diameter, Steel, Closed Swage Socket	311.25	21.84
05 15 16 00-0142	EA	1" Diameter, Steel, Closed Swage Socket	445.25	29.88
05 15 16 00-0143	EA	1-1/8" Diameter, Steel, Closed Swage Socket	550.74	41.37
05 15 16 00-0144	EA	1-1/4" Diameter, Steel, Closed Swage Socket	744.04	64.37
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)				
05 15 16 00-0146	EA	1/4" Galvanized Steel, Open Spelter Socket	170.88	3.45
05 15 16 00-0147	EA	5/16" Galvanized Steel, Open Spelter Socket	175.03	3.45
05 15 16 00-0148	EA	3/8" Galvanized Steel, Open Spelter Socket	175.03	3.45
05 15 16 00-0149	EA	7/16" Galvanized Steel, Open Spelter Socket	194.76	6.89
05 15 16 00-0150	EA	1/2" Galvanized Steel, Open Spelter Socket	194.76	6.89
05 15 16 00-0151	EA	9/16" Galvanized Steel, Open Spelter Socket	254.55	11.49
05 15 16 00-0152	EA	5/8" Galvanized Steel, Open Spelter Socket	254.55	11.49
05 15 16 00-0153	EA	3/4" Galvanized Steel, Open Spelter Socket	321.42	17.24
05 15 16 00-0154	EA	7/8" Galvanized Steel, Open Spelter Socket	480.02	28.73
05 15 16 00-0155	EA	1" Galvanized Steel, Open Spelter Socket	875.58	44.83
05 15 16 00-0156	EA	1-1/8" Galvanized Steel, Open Spelter Socket	1,022.76	72.41
05 15 16 00-0157	EA	1-1/4" Galvanized Steel, Open Spelter Socket	1,382.87	95.40
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)				
05 15 16 00-0159	EA	1/4" Galvanized Steel, Closed Spelter Socket	143.12	3.45
05 15 16 00-0160	EA	5/16" Galvanized Steel, Closed Spelter Socket	143.67	3.45
05 15 16 00-0161	EA	3/8" Galvanized Steel, Closed Spelter Socket	143.67	3.45
05 15 16 00-0162	EA	7/16" Galvanized Steel, Closed Spelter Socket	160.39	5.75
05 15 16 00-0163	EA	1/2" Galvanized Steel, Closed Spelter Socket	160.39	5.75
05 15 16 00-0164	EA	9/16" Galvanized Steel, Closed Spelter Socket	223.61	10.35
05 15 16 00-0165	EA	5/8" Galvanized Steel, Closed Spelter Socket	223.61	10.35
05 15 16 00-0166	EA	3/4" Galvanized Steel, Closed Spelter Socket	273.26	14.95
05 15 16 00-0167	EA	7/8" Galvanized Steel, Closed Spelter Socket	398.68	22.99
05 15 16 00-0168	EA	1" Galvanized Steel, Closed Spelter Socket	601.68	35.63
05 15 16 00-0169	EA	1-1/8" Galvanized Steel, Closed Spelter Socket	787.36	48.28
05 15 16 00-0170	EA	1-1/4" Galvanized Steel, Closed Spelter Socket	990.84	64.37
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)				
05 15 16 00-0172	EA	1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	98.12	3.45
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-12.99	
05 15 16 00-0173	EA	5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	105.32	3.45
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-14.07	
05 15 16 00-0174	EA	3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle	118.67	3.45
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-16.08	
05 15 16 00-0175	EA	1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle	130.81	4.60
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-16.73	
05 15 16 00-0176	EA	1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle	172.32	5.75
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-22.26	
05 15 16 00-0177	EA	1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle	195.73	6.89
		For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-25.20	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0178	EA		5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	198.42 -24.46	9.20
05 15 16 00-0179	EA		5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	246.11 -31.17	9.20
05 15 16 00-0180	EA		5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	279.73 -35.80	10.35
05 15 16 00-0181	EA		3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	267.42 -32.78	12.64
05 15 16 00-0182	EA		3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	303.88 -36.51	14.95
05 15 16 00-0183	EA		3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	376.34 -46.60	16.09
05 15 16 00-0184	EA		3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	452.73 -56.02	19.53
05 15 16 00-0185	EA		7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	513.02 -60.53	27.59
05 15 16 00-0186	EA		7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	622.86 -74.27	32.19
05 15 16 00-0187	EA		1" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	533.45 -63.60	27.59
05 15 16 00-0188	EA		1" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	608.21 -69.68	35.63
05 15 16 00-0189	EA		1" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	836.32 -98.93	44.83
05 15 16 00-0190	EA		1" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	933.91 -108.74	52.87
05 15 16 00-0191	EA		1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,037.95 -117.38	64.37
05 15 16 00-0192	EA		1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,255.69 -145.25	72.41
05 15 16 00-0193	EA		1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,631.72 -195.50	82.76
05 15 16 00-0194	EA		1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,609.87 -188.43	88.50
05 15 16 00-0195	EA		1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,763.08 -195.50	114.94
05 15 16 00-0196	EA		1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	3,204.91 -394.53	149.42
05 15 16 00-0197	EA		2" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	5,232.10 -612.41	287.34
05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)					
05 15 16 00-0199	EA		1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	20.91	
05 15 16 00-0200	EA		5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	21.01	
05 15 16 00-0201	EA		3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	23.72	
05 15 16 00-0202	EA		7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	28.36	
05 15 16 00-0203	EA		1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	28.23	
05 15 16 00-0204	EA		5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	38.69	
05 15 16 00-0205	EA		3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	46.57	
05 15 16 00-0206	EA		7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	63.05	
05 15 16 00-0207	EA		1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	84.75	
05 15 16 00-0208	EA		1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	123.52	
05 15 16 00-0209	EA		1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	147.01	
05 15 16 00-0210	EA		1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	267.69	
05 15 16 00-0211	EA		1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	307.06	
05 15 16 00-0212	EA		2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	379.89	
05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)					
05 15 16 00-0214	EA		1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.60	
05 15 16 00-0215	EA		1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	24.86	
05 15 16 00-0216	EA		5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	33.87	
05 15 16 00-0217	EA		5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.60	
05 15 16 00-0218	EA		3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.66	
05 15 16 00-0219	EA		3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	46.42	
05 15 16 00-0220	EA		3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	44.98	
05 15 16 00-0221	EA		3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	42.72	
05 15 16 00-0222	EA		3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	38.25	
05 15 16 00-0223	EA		3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	39.51	
05 15 16 00-0224	EA		1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.85	
05 15 16 00-0225	EA		1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.69	
05 15 16 00-0226	EA		1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.20	
05 15 16 00-0227	EA		1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	49.60	
05 15 16 00-0228	EA		1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	37.55	
05 15 16 00-0229	EA		1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	60.67	
05 15 16 00-0230	EA		1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	53.35	
05 15 16 00-0231	EA		1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	48.63	
05 15 16 00-0232	EA		1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	57.28	
05 15 16 00-0233	EA		5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	58.12	
05 15 16 00-0234	EA		5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	51.69	
05 15 16 00-0235	EA		5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	65.16	



	Metals	05	05
	Structural Metal Framing	05 10	
	Wire Rope Assemblies	05 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 15 16 00-0236	EA		5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	74.77	
05 15 16 00-0237	EA		5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	86.30	
05 15 16 00-0238	EA		5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	71.20	
05 15 16 00-0239	EA		3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	71.19	
05 15 16 00-0240	EA		3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	72.61	
05 15 16 00-0241	EA		3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	80.32	
05 15 16 00-0242	EA		3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	86.66	
05 15 16 00-0243	EA		3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt	101.36	
05 15 16 00-0244	EA		1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	134.35	

05 15 19 Stainless Steel Wire Rope Assemblies (05 15)

05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0002	LF		1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.27	0.08
			For >500, Deduct	-0.03	
05 15 19 00-0003	LF		3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.35	0.09
			For >500, Deduct	-0.04	
05 15 19 00-0004	LF		1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.46	0.10
			For >500, Deduct	-0.06	
05 15 19 00-0005	LF		5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.59	0.11
			For >500, Deduct	-0.08	
05 15 19 00-0006	LF		3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable	0.72	0.11
			For >500, Deduct	-0.10	

05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0008	LF		1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.51	0.10
			For >500, Deduct	-0.07	
05 15 19 00-0009	LF		5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.60	0.11
			For >500, Deduct	-0.08	
05 15 19 00-0010	LF		3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.69	0.11
			For >500, Deduct	-0.10	
05 15 19 00-0011	LF		1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	0.86	0.11
			For >500, Deduct	-0.13	
05 15 19 00-0012	LF		5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.31	0.11
			For >500, Deduct	-0.20	
05 15 19 00-0013	LF		3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable	1.97	0.23
			For >500, Deduct	-0.30	

05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0015	LF		1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.27	0.08
			For >500, Deduct	-0.03	
05 15 19 00-0016	LF		3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.35	0.09
			For >500, Deduct	-0.04	
05 15 19 00-0017	LF		1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.46	0.10
			For >500, Deduct	-0.06	
05 15 19 00-0018	LF		5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.59	0.11
			For >500, Deduct	-0.08	
05 15 19 00-0019	LF		3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable	0.72	0.11
			For >500, Deduct	-0.10	

05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0021	LF		1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.51	0.10
			For >500, Deduct	-0.07	
05 15 19 00-0022	LF		5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.60	0.11
			For >500, Deduct	-0.08	
05 15 19 00-0023	LF		3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.69	0.11
			For >500, Deduct	-0.10	
05 15 19 00-0024	LF		1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	0.86	0.11
			For >500, Deduct	-0.13	
05 15 19 00-0025	LF		5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.31	0.11
			For >500, Deduct	-0.20	
05 15 19 00-0026	LF		3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable	1.97	0.11
			For >500, Deduct	-0.30	

05 40 Cold-Formed Metal Framing (05)

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing (05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)

05 Metals**05 40 Cold-Formed Metal Framing****05 41 Structural Metal Stud Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0002	SF		2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	6.54	1.15
			For Walls >10' High, Add	1.31	
			For Curved Wall, Add	0.80	
			For Up To 200, Add	1.84	
			For >200 To 500, Add	0.92	
			For 12" On Center, Add	1.17	
			For 24" On Center, Deduct	-1.17	
05 41 00 00-0003	SF		3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	7.34	1.15
			For Walls >10' High, Add	1.47	
			For Curved Wall, Add	0.84	
			For Up To 200, Add	2.03	
			For >200 To 500, Add	1.02	
			For 12" On Center, Add	1.33	
			For 24" On Center, Deduct	-1.33	
05 41 00 00-0004	SF		4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.67	1.15
			For Walls >10' High, Add	1.53	
			For Curved Wall, Add	0.88	
			For Up To 200, Add	2.12	
			For >200 To 500, Add	1.06	
			For 12" On Center, Add	1.39	
			For 24" On Center, Deduct	-1.39	
05 41 00 00-0005	SF		6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	9.89	1.27
			For Walls >10' High, Add	1.98	
			For Curved Wall, Add	0.92	
			For Up To 200, Add	2.59	
			For >200 To 500, Add	1.29	
			For 12" On Center, Add	1.83	
			For 24" On Center, Deduct	-1.83	
05 41 00 00-0006	SF		8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	11.10	1.40
			For Walls >10' High, Add	2.22	
			For Curved Wall, Add	0.95	
			For Up To 200, Add	2.86	
			For >200 To 500, Add	1.43	
			For 12" On Center, Add	2.06	
			For 24" On Center, Deduct	-2.06	
05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners^(05 41)					
05 41 00 00-0008	SF		2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	7.04	1.15
			For Walls >10' High, Add	1.41	
			For Curved Wall, Add	0.84	
			For Up To 200, Add	1.97	
			For >200 To 500, Add	0.99	
			For 12" On Center, Add	1.27	
			For 24" On Center, Deduct	-1.27	
05 41 00 00-0009	SF		3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	8.21	1.16
			For Walls >10' High, Add	1.64	
			For Curved Wall, Add	0.89	
			For Up To 200, Add	2.23	
			For >200 To 500, Add	1.12	
			For 12" On Center, Add	1.49	
			For 24" On Center, Deduct	-1.49	
05 41 00 00-0010	SF		4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	8.68	1.16
			For Walls >10' High, Add	1.74	
			For Curved Wall, Add	0.92	
			For Up To 200, Add	2.35	
			For >200 To 500, Add	1.18	
			For 12" On Center, Add	1.58	
			For 24" On Center, Deduct	-1.58	
05 41 00 00-0011	SF		6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	11.12	1.40
			For Walls >10' High, Add	2.22	
			For Curved Wall, Add	0.97	
			For Up To 200, Add	2.87	
			For >200 To 500, Add	1.43	
			For 12" On Center, Add	2.06	
			For 24" On Center, Deduct	-2.06	
05 41 00 00-0012	SF		8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	12.29	1.53
			For Walls >10' High, Add	2.46	
			For Curved Wall, Add	1.01	
			For Up To 200, Add	3.13	
			For >200 To 500, Add	1.57	
			For 12" On Center, Add	2.29	
			For 24" On Center, Deduct	-2.29	
05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners^(05 41)					
05 41 00 00-0014	SF		3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	9.75	1.59
			For Walls >10' High, Add	1.95	
			For Curved Wall, Add	1.06	
			For Up To 200, Add	2.66	
			For >200 To 500, Add	1.33	
			For 12" On Center, Add	1.77	
			For 24" On Center, Deduct	-1.77	



			Metals	05	05
			Cold-Formed Metal Framing	05 40	
			Structural Metal Stud Framing	05 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0015 SF 4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners For Walls >10' High, Add For Curved Wall, Add For Up To 200, Add For >200 To 500, Add For 12" On Center, Add For 24" On Center, Deduct	10.03 2.01 1.08 2.73 1.36 1.83 -1.83	1.62
05 41 00 00-0016 SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners For Walls >10' High, Add For Curved Wall, Add For Up To 200, Add For >200 To 500, Add For 12" On Center, Add For 24" On Center, Deduct	12.76 2.55 1.14 3.31 1.66 2.36 -2.36	1.70
05 41 00 00-0017 SF 8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners For Walls >10' High, Add For Curved Wall, Add For Up To 200, Add For >200 To 500, Add For 12" On Center, Add For 24" On Center, Deduct	14.05 2.81 1.19 3.60 1.80 2.61 -2.61	1.78

05 42 Cold-Formed Metal Joist Framing (05 40)

05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)

Note: Floor or roof joist framing

05 42 13 00-0001 Steel Joists, 20 Gauge (05 42 13)

05 42 13 00-0002 LF 5-1/2" - 20 Gauge Steel Joists	14.14	2.74
05 42 13 00-0003 LF 6" - 20 Gauge Steel Joists	15.28	3.43
05 42 13 00-0004 LF 7-1/4" - 20 Gauge Steel Joists	16.55	3.77
05 42 13 00-0005 LF 8" - 20 Gauge Steel Joists	18.63	4.01

05 42 13 00-0006 Steel Joists, 18 Gauge (05 42 13)

05 42 13 00-0007 LF 5-1/2" - 18 Gauge Steel Joists	15.76	3.04
05 42 13 00-0008 LF 6" - 18 Gauge Steel Joists	17.07	3.82
05 42 13 00-0009 LF 7-1/4" - 18 Gauge Steel Joists	18.52	4.19
05 42 13 00-0010 LF 8" - 18 Gauge Steel Joists	19.02	4.46

05 42 13 00-0011 Steel Joists, 16 Gauge (05 42 13)

05 42 13 00-0012 LF 7-1/4" - 16 Gauge Steel Joists	20.14	4.23
05 42 13 00-0013 LF 8" - 16 Gauge Steel Joists	21.28	4.46

05 42 13 00-0014 Steel Joists, 14 Gauge (05 42 13)

05 42 13 00-0015 LF 9-1/4" - 14 Gauge Steel Joists	24.20	4.46
05 42 13 00-0016 LF 11-1/2" - 14 Gauge Steel Joists	26.35	4.70

05 42 13 00-0017 Steel Joists, 12 Gauge (05 42 13)

05 42 13 00-0018 LF 9-1/4" - 12 Gauge Steel Joists	28.97	4.90
05 42 13 00-0019 LF 11-1/2" - 12 Gauge Steel Joists	31.75	5.17

05 42 13 00-0020 Steel Joists, 10 Gauge (05 42 13)

05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists	33.79	5.40
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists	37.23	5.68

05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)

05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists	38.69	5.93
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists	42.74	6.25

05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)

See CSI section 05 42 13 00-0000 for metal joist framing.

05 43 Slotted Channel Framing (05 40)

05 43 00 00-0001 Metal Framing Channel (05 43)

Note: Excludes fasteners and accessories. See CSI section 26 05 29 00-0001 for Unistrut framing channels with Electrical Crews.

05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)

05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	13.57	2.60
For Powder Coating, Add	1.26	
For Galvanizing, Add	1.42	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	13.98	2.60
For Powder Coating, Add	1.32	
For Galvanizing, Add	1.49	

05 Metals**05 40 Cold-Formed Metal Framing****05 43 Slotted Channel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Powder Coating, Add For Galvanizing, Add	14.60 1.41 1.60	2.60
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel For Powder Coating, Add For Galvanizing, Add	12.76 1.14 1.29	2.60
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel For Powder Coating, Add For Galvanizing, Add	10.98 0.87 0.98	2.60
05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	24.26	2.60
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	28.92	2.60
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	27.76	2.60
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	34.96	2.60
05 43 00 00-0014 316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	39.37	2.60
05 43 00 00-0016 Aluminum Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0017 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	13.04	2.60
05 43 00 00-0018 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	9.94	2.60
05 43 00 00-0019 Metal Framing Channel Fittings (05 43)		
05 43 00 00-0020 Unistrut Closure Strips (05 43 00 00-0019)		
05 43 00 00-0021 LF Steel Raceway Closure Strip For Unistrut Channel	7.58	0.58
05 43 00 00-0022 Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0019) Note: Includes hex bolt.		
05 43 00 00-0023 Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0022) Note: Includes hex bolt.		
05 43 00 00-0024 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	8.24	
05 43 00 00-0025 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	9.12	
05 43 00 00-0026 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	9.79	
05 43 00 00-0027 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	13.36	
05 43 00 00-0028 Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0022) Note: Includes hex bolt.		
05 43 00 00-0029 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	14.56	
05 43 00 00-0030 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	15.48	
05 43 00 00-0031 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	21.46	
05 43 00 00-0032 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	35.41	
05 43 00 00-0033 Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0019) Note: Includes hex bolt.		
05 43 00 00-0034 Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0033) Note: Includes hex bolt.		
05 43 00 00-0035 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	8.27	
05 43 00 00-0036 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	9.25	
05 43 00 00-0037 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	9.84	
05 43 00 00-0038 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	14.39	
05 43 00 00-0039 Stainless Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0033) Note: Includes hex bolt.		
05 43 00 00-0040 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	10.80	
05 43 00 00-0041 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	12.82	
05 43 00 00-0042 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.97	
05 43 00 00-0043 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	34.53	
05 43 00 00-0044 Beam Clamp For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0045 EA 1-5/8" Channel, P2675 Unistrut Beam Clamp	24.18	8.62
05 43 00 00-0046 EA 1-5/8" Channel, P2676 Unistrut Beam Clamp	30.63	8.62
05 43 00 00-0047 EA Add For Unistrut Swivel Nut, P2676	3.51	
05 43 00 00-0048 Beam Clamp Clevis Hangers For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0049 EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	26.42	8.62
05 43 00 00-0050 EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	31.55	8.62



	Metals	05	05
	Cold-Formed Metal Framing	05 40	
	Slotted Channel Framing	05 43	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0051	EA	Add For Unistrut Swivel Nut.....	3.51	
05 43 00 00-0052	EA	6-Hole Electrogalvanized Steel Shelf Bracket For Unistrut.....	185.61	11.49
05 43 00 00-0053		Accessories For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0054	EA	Trolley Truck Hanger, 1-5/8" Channel P1834	61.01	8.62
05 43 00 00-0055	EA	Flat Plate Fitting, One Hole, 1-5/8" Channel P1064.....	15.14	5.75
05 43 00 00-0056	EA	60 Degree Angle, 1-5/8" Channel P2097.....	15.87	5.75
05 43 00 00-0057		Bases For Unistrut Channel (05 43 00 00-0019)		
05 43 00 00-0058		Steel Bases For Unistrut Channel (05 43 00 00-0057)		
		Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0059	EA	6" x 6", 1-5/8" Height, Single Post, Steel Base For Unistrut Channel	117.04	28.74
05 43 00 00-0060	EA	6" x 6", 3-1/2" Height, Single Post, Steel Base For Unistrut Channel	118.17	28.74
05 43 00 00-0061	EA	6" x 6", 1-5/8" Height, Double Post, Steel Base For Unistrut Channel	170.01	28.74
05 43 00 00-0062	EA	6" x 6", 3-1/2" Height, Double Post, Steel Base For Unistrut Channel.....	138.90	28.74
05 43 00 00-0063		Stainless Steel Bases For Unistrut Channel (05 43 00 00-0057)		
		Note: Includes straight or angled post mounting and fasteners.		
05 43 00 00-0064	EA	6" x 6", 1-5/8" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....	224.95	28.74
05 43 00 00-0065	EA	6" x 6", 3-1/2" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....	416.77	28.74
05 43 00 00-0066	EA	6" x 6", 3-1/2" Height, Double Post, 304 Stainless Steel Base For Unistrut Channel	310.04	28.74
05 43 00 00-0067	EA	6" x 6", 1-5/8" Height, Single Post, 316 Stainless Steel Base For Unistrut Channel.....	466.06	28.74
05 43 00 00-0068	EA	6" x 6", 3-1/2" Height, Double Post, 316 Stainless Steel Base For Unistrut Channel	397.87	28.74
05 45		Metal Support Assemblies (05 40)		
05 45 16		Electrical Metal Supports (05 45)		
		See CSI section 26 05 29 00-0000 for metal supports.		
05 50		Metal Fabrications (05)		
05 51		Metal Stairs (05 50)		
05 51 13		Metal Pan Stairs (05 51)		
		Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.		
		See CSI section 05 52 13 00-0000 for handrails.		
05 51 13 00-0001		Open Concrete Filled Metal Pan Stair And Landing (05 51 13)		
		Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.		
05 51 13 00-0002	RSR	3'-6" Wide Open Concrete Filled Metal Pan Tread Stair	1,017.96	33.46
		For Closed Riser, Add	117.57	
05 51 13 00-0003	RSR	4'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,156.75	39.04
		For Closed Riser, Add	133.46	
05 51 13 00-0004	RSR	5'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,288.51	45.73
		For Closed Riser, Add	148.35	
05 51 13 00-0005	SF	Concrete Filled Steel Pan Landing	78.52	5.58
		Note: Conventional shape.		
05 51 19		Metal Grating Stairs (05 51)		
		Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0001		Open Steel Grating Tread Metal Stair And Landing (05 51 19)		
		Note: Includes steel stringers, safety nosing and 2 pipe handrail.		
05 51 19 00-0002	RSR	3'-6" Wide Open Steel Grating Tread Metal Stair	494.40	44.62
		For Closed Riser, Add	59.36	
		For Galvanized Steel, Add	101.30	
05 51 19 00-0003	RSR	4'-0" Wide Open Steel Grating Tread Metal Stair	527.08	51.31
		For Closed Riser, Add	62.88	
		For Galvanized Steel, Add	106.12	
05 51 19 00-0004	RSR	5'-0" Wide Open Steel Grating Tread Metal Stair	583.52	60.23
		For Closed Riser, Add	69.23	
		For Galvanized Steel, Add	115.77	
05 51 19 00-0005	SF	Steel Grating Landing With Framing And 2 Pipe Handrail	91.76	5.58
		Note: Conventional shape.		
		For Galvanized Steel, Add	17.37	
05 51 33		Metal Ladders (05 51)		
		Note: Includes factory prime.		
05 51 33 13		Vertical Metal Ladders (05 51 33)		
05 51 33 13-0001		Vertical Ladders (05 51 33 13)		
		Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"		
05 51 33 13-0002	VLF	20" Wide Fixed Vertical Steel Ladder Primed	102.10	13.38
		For Galvanized Steel, Add	15.03	
		For Aluminum, Add	30.06	

05 Metals**05 50 Metal Fabrications****05 51 Metal Stairs**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0003 VLF 24" Wide Fixed Vertical Steel Ladder Primed For Galvanized Steel, Add For Aluminum, Add	117.33 18.84 37.67	13.38
05 51 33 13-0004 VLF 20" Wide Fixed Vertical Steel Caged Ladder Primed For Galvanized Steel, Add For Aluminum, Add	245.69 43.65 87.30	22.30
05 51 33 13-0005 VLF 24" Wide Fixed Vertical Steel Caged Ladder Primed For Galvanized Steel, Add For Aluminum, Add	276.16 51.27 102.54	22.30
05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)		
05 51 33 13-0007 EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. For Galvanized Steel, Add For Aluminum, Add	416.53 83.22 166.45	41.82
05 51 33 13-0008 EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed Note: Extends 42" above landing surface. Includes mounting bracket. For Galvanized Steel, Add For Aluminum, Add	456.38 91.79 183.58	44.62
05 51 33 13-0009 EA Security Cage Entry Gate With Lockable Hasp	503.83	13.94
05 51 33 13-0010 EA 6' Powder Coated, Security Ladder Guard	1,349.55	83.64
05 51 33 13-0011 EA 8' Powder Coated, Security Ladder Guard	1,614.86	97.59
05 51 33 13-0012 EA Safety Chain Attachment	247.49	
05 51 33 13-0013 Welded Steel Ladder Cages (05 51 33 13)		
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages (05 51 33 13-0013)		
05 51 33 13-0015 EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,290.05	167.30
05 51 33 13-0016 EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,488.86	172.87
05 51 33 13-0017 EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,646.88	178.45
05 51 33 13-0018 EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,815.78	184.02
05 51 33 13-0019 EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,913.96	189.60
05 51 33 13-0020 EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,074.69	195.18
05 51 33 13-0021 EA 13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,216.40	200.75
05 51 33 13-0022 EA 14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,401.60	206.33
05 51 33 13-0023 EA 15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,581.38	211.91
05 51 33 13-0024 EA 16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,728.53	217.48
05 51 33 13-0025 EA 17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,908.29	223.06
05 51 33 13-0026 EA 18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,082.63	228.64
05 51 33 13-0027 EA 19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,254.25	234.21
05 51 33 13-0028 EA 20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,567.28	239.79
05 51 33 13-0029 EA 21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,660.03	245.36
05 51 33 13-0030 EA 22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,820.77	250.94
05 51 33 13-0031 EA 23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,967.90	256.52
05 51 33 13-0032 EA 24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,104.16	262.09
05 51 33 13-0033 EA 25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,409.04	267.67
05 51 33 13-0034 EA 26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,572.50	273.25
05 51 33 13-0035 EA 27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,725.08	278.82
05 51 33 13-0036 Welded Stainless Steel Ladder Cages (05 51 33 13-0013)		
05 51 33 13-0037 EA 7-1/2' Length, Welded Stainless Steel Ladder Cage	5,752.23	167.30
05 51 33 13-0038 EA 8-1/2' Length, Welded Stainless Steel Ladder Cage	6,146.86	172.87
05 51 33 13-0039 EA 9-1/2' Length, Welded Stainless Steel Ladder Cage	6,805.30	178.45
05 51 33 13-0040 EA 10-1/2' Length, Welded Stainless Steel Ladder Cage	7,129.22	184.02
05 51 33 13-0041 EA 11-1/2' Length, Welded Stainless Steel Ladder Cage	7,401.47	189.60
05 51 33 13-0042 EA 12-1/2' Length, Welded Stainless Steel Ladder Cage	7,763.46	195.18
05 51 33 13-0043 EA 13-1/2' Length, Welded Stainless Steel Ladder Cage	8,416.47	200.75
05 51 33 13-0044 EA 14-1/2' Length, Welded Stainless Steel Ladder Cage	8,745.81	206.33
05 51 33 13-0045 EA 15-1/2' Length, Welded Stainless Steel Ladder Cage	9,086.05	211.91
05 51 33 13-0046 EA 16-1/2' Length, Welded Stainless Steel Ladder Cage	9,458.93	217.48
05 51 33 13-0047 EA 17-1/2' Length, Welded Stainless Steel Ladder Cage	10,125.52	223.06
05 51 33 13-0048 EA 18-1/2' Length, Welded Stainless Steel Ladder Cage	10,457.61	228.64
05 51 33 13-0049 EA 19-1/2' Length, Welded Stainless Steel Ladder Cage	10,773.37	234.21
05 51 33 13-0050 EA 20-1/2' Length, Welded Stainless Steel Ladder Cage	11,298.54	239.79
05 51 33 13-0051 EA 21-1/2' Length, Welded Stainless Steel Ladder Cage	11,888.99	245.36
05 51 33 13-0052 EA 22-1/2' Length, Welded Stainless Steel Ladder Cage	12,215.64	250.94
05 51 33 13-0053 EA 23-1/2' Length, Welded Stainless Steel Ladder Cage	12,550.42	256.52
05 51 33 13-0054 EA 24-1/2' Length, Welded Stainless Steel Ladder Cage	12,863.47	262.09
05 51 33 13-0055 EA 25-1/2' Length, Welded Stainless Steel Ladder Cage	13,671.49	267.67
05 51 33 13-0056 EA 26-1/2' Length, Welded Stainless Steel Ladder Cage	13,984.53	273.25
05 51 33 13-0057 EA 27-1/2' Length, Welded Stainless Steel Ladder Cage	14,305.73	278.82

05 51 33 16 Inclined Metal Ladders (05 51 33)**05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)**
Note: Includes factory prime.



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Stairs	05 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 51 33 16-0002	RSR		3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....	354.04	55.76
			For Aluminum, Add	121.26	

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)

05 51 33 23-0002	EA		4' Vertical Height Aluminum Alternating Tread Ladder	2,886.45	167.30
			For Stainless Steel, Add	279.46	
			For Primed Steel, Deduct	-232.88	
05 51 33 23-0003	EA		5' Vertical Height Aluminum Alternating Tread Ladder	3,318.92	177.33
			For Stainless Steel, Add	340.51	
			For Primed Steel, Deduct	-265.60	
05 51 33 23-0004	EA		6' Vertical Height Aluminum Alternating Tread Ladder	3,704.42	177.33
			For Stainless Steel, Add	404.25	
			For Primed Steel, Deduct	-295.41	
05 51 33 23-0005	EA		7' Vertical Height Aluminum Alternating Tread Ladder	4,209.68	222.84
			For Stainless Steel, Add	467.93	
			For Primed Steel, Deduct	-320.62	
05 51 33 23-0006	EA		8' Vertical Height Aluminum Alternating Tread Ladder	4,636.94	230.73
			For Stainless Steel, Add	541.49	
			For Primed Steel, Deduct	-348.10	
05 51 33 23-0007	EA		9' Vertical Height Aluminum Alternating Tread Ladder	4,977.57	230.73
			For Stainless Steel, Add	610.22	
			For Primed Steel, Deduct	-368.24	
05 51 33 23-0008	EA		10' Vertical Height Aluminum Alternating Tread Ladder	5,462.18	257.37
			For Stainless Steel, Add	690.64	
			For Primed Steel, Deduct	-391.36	
05 51 33 23-0009	EA		11' Vertical Height Aluminum Alternating Tread Ladder	5,843.82	257.37
			For Stainless Steel, Add	772.81	
			For Primed Steel, Deduct	-411.34	
05 51 33 23-0010	EA		12' Vertical Height Aluminum Alternating Tread Ladder	6,140.75	257.37
			For Stainless Steel, Add	845.25	
			For Primed Steel, Deduct	-422.63	

05 52 Metal Railings (05 50)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)

Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and one rail.

05 52 13 00-0003	LF		1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	38.90	11.16
			For Schedule 80 Handrail, Add	5.43	
			For 11 Gauge A513 Steel Tubing, Deduct	-3.65	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.15	
			For 14 Gauge A513 Steel Tubing, Deduct	-5.48	
			For 16 Gauge A513 Steel Tubing, Deduct	-6.47	
			For ADA Handrail P-Loop End Return, Add Per Each	80.55	
			For Additional Off Set Handrail, ADA Attachment, Add	14.42	
			For Aluminum, Satin Finish, Add	6.97	
			For Aluminum, Clear Anodized Finish, Add	10.79	
			For Aluminum, Dark Anodized Finish, Add	12.45	
			For Galvanizing, Add	6.64	
			For Wrought Iron, Add	3.89	
			For Solid Steel Rails, Add	7.78	
			For 304 Stainless Steel, Add	53.12	
			For 316 Stainless Steel, Add	59.76	
			For 2" Wheel Guard, Add	1.58	
			For 4" High Kick Plate, Add	2.08	
			For 6" High Kick Plate, Add	3.32	
			For Curved Rail, Add	16.65	
			For Mounting On Stairs, Add	11.67	
			For Mounting On Slopes, Add	3.89	
			For Post Base Flange With Screws, Add Per Post	19.73	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
			For Custom Design Or Shapes (Square Tops, etc), Add	13.88	
			For Nylon Coating, Add	2.49	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0004	LF		1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	41.76	11.16
			For Schedule 80 Handrail, Add	8.74	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.28	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.87	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.42	
			For 16 Gauge A513 Steel Tubing, Deduct	-7.59	
			For ADA Handrail P-Loop End Return, Add Per Each	96.03	
			For Additional Off Set Handrail, ADA Attachment, Add	16.14	
			For Aluminum, Satin Finish, Add	8.17	
			For Aluminum, Clear Anodized Finish, Add	12.65	
			For Aluminum, Dark Anodized Finish, Add	14.60	
			For Galvanizing, Add	7.78	
			For Wrought Iron, Add	4.18	
			For Solid Steel Rails, Add	8.35	
			For 304 Stainless Steel, Add	62.27	
			For 316 Stainless Steel, Add	70.06	
			For 2" Wheel Guard, Add	1.85	
			For 4" High Kick Plate, Add	2.43	
			For 6" High Kick Plate, Add	3.89	
			For Curved Rail, Add	18.37	
			For Mounting On Stairs, Add	12.53	
			For Mounting On Slopes, Add	4.18	
			For Post Base Flange With Screws, Add Per Post	19.73	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
			For Custom Design Or Shapes (Square Tops, etc), Add	15.31	
			For Nylon Coating, Add	2.92	
05 52 13 00-0005	LF		1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	44.62	11.16
			For Schedule 80 Handrail, Add	8.74	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.91	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.58	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.37	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.70	
			For ADA Handrail P-Loop End Return, Add Per Each	108.34	
			For Additional Off Set Handrail, ADA Attachment, Add	17.85	
			For Aluminum, Satin Finish, Add	9.37	
			For Aluminum, Clear Anodized Finish, Add	14.51	
			For Aluminum, Dark Anodized Finish, Add	16.74	
			For Galvanizing, Add	8.93	
			For Wrought Iron, Add	4.46	
			For Solid Steel Rails, Add	8.92	
			For 304 Stainless Steel, Add	71.42	
			For 316 Stainless Steel, Add	80.35	
			For 2" Wheel Guard, Add	2.12	
			For 4" High Kick Plate, Add	2.79	
			For 6" High Kick Plate, Add	4.46	
			For Curved Rail, Add	20.08	
			For Mounting On Stairs, Add	13.39	
			For Mounting On Slopes, Add	4.46	
			For Post Base Flange With Screws, Add Per Post	19.73	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
			For Custom Design Or Shapes (Square Tops, etc), Add	16.74	
			For Nylon Coating, Add	3.35	
05 52 13 00-0006	LF		2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	49.58	11.16
			For Schedule 80 Handrail, Add	10.07	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.00	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.82	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.00	
			For 16 Gauge A513 Steel Tubing, Deduct	-10.64	
			For ADA Handrail P-Loop End Return, Add Per Each	131.07	
			For Additional Off Set Handrail, ADA Attachment, Add	20.83	
			For Aluminum, Satin Finish, Add	11.46	
			For Aluminum, Clear Anodized Finish, Add	17.73	
			For Aluminum, Dark Anodized Finish, Add	20.46	
			For Galvanizing, Add	10.91	
			For Wrought Iron, Add	4.96	
			For Solid Steel Rails, Add	9.92	
			For 304 Stainless Steel, Add	87.30	
			For 316 Stainless Steel, Add	98.21	
			For 2" Wheel Guard, Add	2.59	
			For 4" High Kick Plate, Add	3.41	
			For 6" High Kick Plate, Add	5.46	
			For Curved Rail, Add	23.06	
			For Mounting On Stairs, Add	14.87	
			For Mounting On Slopes, Add	4.96	
			For Post Base Flange With Screws, Add Per Post	19.73	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
			For Custom Design Or Shapes (Square Tops, etc), Add	19.22	
			For Nylon Coating, Add	4.09	



	Metals	05	
	Metal Fabrications	05 50	
	Metal Railings	05 52	05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0007	LF		2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	55.52	11.16
			For Schedule 80 Handrail, Add	11.42	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.31	
			For 12 Gauge A513 Steel Tubing, Deduct	-8.31	
			For 14 Gauge A513 Steel Tubing, Deduct	-10.96	
			For 16 Gauge A513 Steel Tubing, Deduct	-12.96	
			For ADA Handrail P-Loop End Return, Add Per Each	179.61	
			For Additional Off Set Handrail, ADA Attachment, Add	24.39	
			For Aluminum, Satin Finish, Add	13.95	
			For Aluminum, Clear Anodized Finish, Add	21.59	
			For Aluminum, Dark Anodized Finish, Add	24.92	
			For Galvanizing, Add	13.29	
			For Wrought Iron, Add	5.55	
			For Solid Steel Rails, Add	11.10	
			For 304 Stainless Steel, Add	106.30	
			For 316 Stainless Steel, Add	119.59	
			For 2" Wheel Guard, Add	3.16	
			For 4" High Kick Plate, Add	4.15	
			For 6" High Kick Plate, Add	6.64	
			For Curved Rail, Add	26.62	
			For Mounting On Stairs, Add	16.66	
			For Mounting On Slopes, Add	5.55	
			For Post Base Flange With Screws, Add Per Post	19.73	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
			For Custom Design Or Shapes (Square Tops, etc), Add	22.19	
			For Nylon Coating, Add	4.98	
05 52 13 00-0008			Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
			Note: Includes factory primed posts and two rails.		
05 52 13 00-0009	LF		1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	51.34	11.16
			For Schedule 80 Handrail, Add	5.43	
			For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
			For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
			For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
			For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
			For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
			For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
			For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
			For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
			For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.39	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.26	
			For 14 Gauge A513 Steel Tubing, Deduct	-9.58	
			For 16 Gauge A513 Steel Tubing, Deduct	-11.33	
			For ADA Handrail P-Loop End Return, Add Per Each	80.55	
			For Additional Off Set Handrail, ADA Attachment, Add	14.42	
			For Aluminum, Satin Finish, Add	12.20	
			For Aluminum, Clear Anodized Finish, Add	18.88	
			For Aluminum, Dark Anodized Finish, Add	21.78	
			For Galvanizing, Add	11.62	
			For Wrought Iron, Add	5.13	
			For Solid Steel Rails, Add	10.27	
			For 304 Stainless Steel, Add	92.93	
			For 316 Stainless Steel, Add	104.54	
			For 2" Wheel Guard, Add	2.76	
			For 4" High Kick Plate, Add	3.63	
			For 6" High Kick Plate, Add	5.81	
			For Curved Rail, Add	24.11	
			For Mounting On Stairs, Add	15.40	
			For Mounting On Slopes, Add	5.13	
			For Post Base Flange With Screws, Add Per Post	19.73	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
			For Custom Design Or Shapes (Square Tops, etc), Add	20.10	
			For Nylon Coating, Add	4.36	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0010	LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	56.35	11.16
	For Schedule 80 Handrail, Add	8.74	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 11 Gauge A513 Steel Tubing, Deduct	-7.49	
	For 12 Gauge A513 Steel Tubing, Deduct	-8.51	
	For 14 Gauge A513 Steel Tubing, Deduct	-11.24	
	For 16 Gauge A513 Steel Tubing, Deduct	-13.28	
	For ADA Handrail P-Loop End Return, Add Per Each	96.03	
	For Additional Off Set Handrail, ADA Attachment, Add	16.14	
	For Aluminum, Satin Finish, Add	14.30	
	For Aluminum, Clear Anodized Finish, Add	22.13	
	For Aluminum, Dark Anodized Finish, Add	25.54	
	For Galvanizing, Add	13.62	
	For Wrought Iron, Add	5.64	
	For Solid Steel Rails, Add	11.27	
	For 304 Stainless Steel, Add	108.96	
	For 316 Stainless Steel, Add	122.58	
	For 2" Wheel Guard, Add	3.23	
	For 4" High Kick Plate, Add	4.26	
	For 6" High Kick Plate, Add	6.81	
	For Curved Rail, Add	27.12	
	For Mounting On Stairs, Add	16.91	
	For Mounting On Slopes, Add	5.64	
	For Post Base Flange With Screws, Add Per Post	19.73	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
	For Custom Design Or Shapes (Square Tops, etc), Add	22.60	
	For Nylon Coating, Add	5.11	
05 52 13 00-0011	LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	61.35	11.16
	For Schedule 80 Handrail, Add	8.74	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 11 Gauge A513 Steel Tubing, Deduct	-8.59	
	For 12 Gauge A513 Steel Tubing, Deduct	-9.76	
	For 14 Gauge A513 Steel Tubing, Deduct	-12.89	
	For 16 Gauge A513 Steel Tubing, Deduct	-15.23	
	For ADA Handrail P-Loop End Return, Add Per Each	108.34	
	For Additional Off Set Handrail, ADA Attachment, Add	17.85	
	For Aluminum, Satin Finish, Add	16.40	
	For Aluminum, Clear Anodized Finish, Add	25.38	
	For Aluminum, Dark Anodized Finish, Add	29.29	
	For Galvanizing, Add	15.62	
	For Wrought Iron, Add	6.14	
	For Solid Steel Rails, Add	12.27	
	For 304 Stainless Steel, Add	124.96	
	For 316 Stainless Steel, Add	140.58	
	For 2" Wheel Guard, Add	3.71	
	For 4" High Kick Plate, Add	4.88	
	For 6" High Kick Plate, Add	7.81	
	For Curved Rail, Add	30.12	
	For Mounting On Stairs, Add	18.41	
	For Mounting On Slopes, Add	6.14	
	For Post Base Flange With Screws, Add Per Post	19.73	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
	For Custom Design Or Shapes (Square Tops, etc), Add	25.10	
	For Nylon Coating, Add	5.86	



Metals			05
Metal Fabrications			05 50
Metal Railings			05 52

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 52 13 00-0012	LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	70.03	11.16
	For Schedule 80 Handrail, Add	10.07	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.49	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	94.46	
	For 11 Gauge A513 Steel Tubing, Deduct	-10.50	
	For 12 Gauge A513 Steel Tubing, Deduct	-11.93	
	For 14 Gauge A513 Steel Tubing, Deduct	-15.75	
	For 16 Gauge A513 Steel Tubing, Deduct	-18.61	
	For ADA Handrail P-Loop End Return, Add Per Each	131.07	
	For Additional Off Set Handrail, ADA Attachment, Add	20.83	
	For Aluminum, Satin Finish, Add	20.05	
	For Aluminum, Clear Anodized Finish, Add	31.02	
	For Aluminum, Dark Anodized Finish, Add	35.80	
	For Galvanizing, Add	19.09	
	For Wrought Iron, Add	7.00	
	For Solid Steel Rails, Add	14.01	
	For 304 Stainless Steel, Add	152.74	
	For 316 Stainless Steel, Add	171.83	
	For 2" Wheel Guard, Add	4.53	
	For 4" High Kick Plate, Add	5.97	
	For 6" High Kick Plate, Add	9.55	
	For Curved Rail, Add	35.33	
	For Mounting On Stairs, Add	21.01	
	For Mounting On Slopes, Add	7.00	
	For Post Base Flange With Screws, Add Per Post	19.73	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
	For Custom Design Or Shapes (Square Tops, etc), Add	29.44	
	For Nylon Coating, Add	7.16	
05 52 13 00-0013	LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	80.43	11.16
	For Schedule 80 Handrail, Add	11.42	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.49	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	94.46	
	For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	135.65	
	For 11 Gauge A513 Steel Tubing, Deduct	-12.79	
	For 12 Gauge A513 Steel Tubing, Deduct	-14.53	
	For 14 Gauge A513 Steel Tubing, Deduct	-19.18	
	For 16 Gauge A513 Steel Tubing, Deduct	-22.67	
	For ADA Handrail P-Loop End Return, Add Per Each	179.61	
	For Additional Off Set Handrail, ADA Attachment, Add	24.39	
	For Aluminum, Satin Finish, Add	24.41	
	For Aluminum, Clear Anodized Finish, Add	37.78	
	For Aluminum, Dark Anodized Finish, Add	43.60	
	For Galvanizing, Add	23.25	
	For Wrought Iron, Add	8.04	
	For Solid Steel Rails, Add	16.09	
	For 304 Stainless Steel, Add	186.02	
	For 316 Stainless Steel, Add	209.27	
	For 2" Wheel Guard, Add	5.52	
	For 4" High Kick Plate, Add	7.27	
	For 6" High Kick Plate, Add	11.63	
	For Curved Rail, Add	41.57	
	For Mounting On Stairs, Add	24.13	
	For Mounting On Slopes, Add	8.04	
	For Post Base Flange With Screws, Add Per Post	19.73	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.85	
	For Custom Design Or Shapes (Square Tops, etc), Add	34.64	
	For Nylon Coating, Add	8.72	
05 52 13 00-0014	Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
	Note: Includes factory primed posts and three rails.		

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT

DEMOLITION

UNIT COST

UNIT COST

05 52 13 00-0015	LF	1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	80.13	13.38
		For Schedule 80 Handrail, Add	7.82	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
		For 11 Gauge A513 Steel Tubing, Deduct	-11.74	
		For 12 Gauge A513 Steel Tubing, Deduct	-13.34	
		For 14 Gauge A513 Steel Tubing, Deduct	-17.61	
		For 16 Gauge A513 Steel Tubing, Deduct	-20.81	
		For ADA Handrail P-Loop End Return, Add Per Each	80.55	
		For Additional Off Set Handrail, ADA Attachment, Add	15.31	
		For Aluminum, Satin Finish, Add	22.41	
		For Aluminum, Clear Anodized Finish, Add	34.68	
		For Aluminum, Dark Anodized Finish, Add	40.02	
		For Galvanizing, Add	21.34	
		For Wrought Iron, Add	8.01	
		For Solid Steel Rails, Add	16.03	
		For 304 Stainless Steel, Add	170.75	
		For 316 Stainless Steel, Add	192.10	
		For 2" Wheel Guard, Add	5.07	
		For 4" High Kick Plate, Add	6.67	
		For 6" High Kick Plate, Add	10.67	
		For Curved Rail, Add	40.05	
		For Mounting On Stairs, Add	24.04	
		For Mounting On Slopes, Add	8.01	
		For Post Base Flange With Screws, Add Per Post	20.18	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.52	
		For Custom Design Or Shapes (Square Tops, etc), Add	33.37	
		For Nylon Coating, Add	8.00	
05 52 13 00-0016	LF	1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	89.32	13.38
		For Schedule 80 Handrail, Add	12.23	
		For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
		For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
		For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
		For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
		For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
		For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
		For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
		For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
		For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
		For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
		For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
		For 11 Gauge A513 Steel Tubing, Deduct	-13.76	
		For 12 Gauge A513 Steel Tubing, Deduct	-15.64	
		For 14 Gauge A513 Steel Tubing, Deduct	-20.64	
		For 16 Gauge A513 Steel Tubing, Deduct	-24.39	
		For ADA Handrail P-Loop End Return, Add Per Each	96.03	
		For Additional Off Set Handrail, ADA Attachment, Add	17.03	
		For Aluminum, Satin Finish, Add	26.27	
		For Aluminum, Clear Anodized Finish, Add	40.66	
		For Aluminum, Dark Anodized Finish, Add	46.91	
		For Galvanizing, Add	25.02	
		For Wrought Iron, Add	8.93	
		For Solid Steel Rails, Add	17.86	
		For 304 Stainless Steel, Add	200.16	
		For 316 Stainless Steel, Add	225.18	
		For 2" Wheel Guard, Add	5.94	
		For 4" High Kick Plate, Add	7.82	
		For 6" High Kick Plate, Add	12.51	
		For Curved Rail, Add	45.56	
		For Mounting On Stairs, Add	26.80	
		For Mounting On Slopes, Add	8.93	
		For Post Base Flange With Screws, Add Per Post	20.18	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.52	
		For Custom Design Or Shapes (Square Tops, etc), Add	37.97	
		For Nylon Coating, Add	9.38	



Metals		05	05
Metal Fabrications		05 50	
Metal Railings		05 52	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 52 13 00-0017	LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	98.51	13.38
	For Schedule 80 Handrail, Add	12.23	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 11 Gauge A513 Steel Tubing, Deduct	-15.78	
	For 12 Gauge A513 Steel Tubing, Deduct	-17.94	
	For 14 Gauge A513 Steel Tubing, Deduct	-23.67	
	For 16 Gauge A513 Steel Tubing, Deduct	-27.98	
	For ADA Handrail P-Loop End Return, Add Per Each	108.34	
	For Additional Off Set Handrail, ADA Attachment, Add	18.74	
	For Aluminum, Satin Finish, Add	30.13	
	For Aluminum, Clear Anodized Finish, Add	46.63	
	For Aluminum, Dark Anodized Finish, Add	53.81	
	For Galvanizing, Add	28.70	
	For Wrought Iron, Add	9.85	
	For Solid Steel Rails, Add	19.70	
	For 304 Stainless Steel, Add	229.57	
	For 316 Stainless Steel, Add	258.26	
	For 2" Wheel Guard, Add	6.82	
	For 4" High Kick Plate, Add	8.97	
	For 6" High Kick Plate, Add	14.35	
	For Curved Rail, Add	51.08	
	For Mounting On Stairs, Add	29.55	
	For Mounting On Slopes, Add	9.85	
	For Post Base Flange With Screws, Add Per Post	20.18	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.52	
	For Custom Design Or Shapes (Square Tops, etc), Add	42.56	
	For Nylon Coating, Add	10.76	
05 52 13 00-0018	LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	114.48	13.38
	For Schedule 80 Handrail, Add	14.01	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.49	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	94.46	
	For 11 Gauge A513 Steel Tubing, Deduct	-19.30	
	For 12 Gauge A513 Steel Tubing, Deduct	-21.93	
	For 14 Gauge A513 Steel Tubing, Deduct	-28.94	
	For 16 Gauge A513 Steel Tubing, Deduct	-34.21	
	For ADA Handrail P-Loop End Return, Add Per Each	131.07	
	For Additional Off Set Handrail, ADA Attachment, Add	21.72	
	For Aluminum, Satin Finish, Add	36.84	
	For Aluminum, Clear Anodized Finish, Add	57.01	
	For Aluminum, Dark Anodized Finish, Add	65.78	
	For Galvanizing, Add	35.08	
	For Wrought Iron, Add	11.45	
	For Solid Steel Rails, Add	22.90	
	For 304 Stainless Steel, Add	280.67	
	For 316 Stainless Steel, Add	315.76	
	For 2" Wheel Guard, Add	8.33	
	For 4" High Kick Plate, Add	10.96	
	For 6" High Kick Plate, Add	17.54	
	For Curved Rail, Add	60.66	
	For Mounting On Stairs, Add	34.34	
	For Mounting On Slopes, Add	11.45	
	For Post Base Flange With Screws, Add Per Post	20.18	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.52	
	For Custom Design Or Shapes (Square Tops, etc), Add	50.55	
	For Nylon Coating, Add	13.16	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 52 13 00-0019	LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	133.50		13.38
	For Schedule 80 Handrail, Add	15.81		
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96		
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45		
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93		
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17		
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72		
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25		
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44		
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12		
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79		
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27		
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96		
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59		
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53		
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.49		
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	94.46		
	For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	135.65		
	For 11 Gauge A513 Steel Tubing, Deduct	-23.48		
	For 12 Gauge A513 Steel Tubing, Deduct	-26.68		
	For 14 Gauge A513 Steel Tubing, Deduct	-35.22		
	For 16 Gauge A513 Steel Tubing, Deduct	-41.62		
	For ADA Handrail P-Loop End Return, Add Per Each	179.61		
	For Additional Off Set Handrail, ADA Attachment, Add	25.28		
	For Aluminum, Satin Finish, Add	44.83		
	For Aluminum, Clear Anodized Finish, Add	69.37		
	For Aluminum, Dark Anodized Finish, Add	80.05		
	For Galvanizing, Add	42.69		
	For Wrought Iron, Add	13.35		
	For Solid Steel Rails, Add	26.70		
	For 304 Stainless Steel, Add	341.54		
	For 316 Stainless Steel, Add	384.23		
	For 2" Wheel Guard, Add	10.14		
	For 4" High Kick Plate, Add	13.34		
	For 6" High Kick Plate, Add	21.35		
	For Curved Rail, Add	72.07		
	For Mounting On Stairs, Add	40.05		
	For Mounting On Slopes, Add	13.35		
	For Post Base Flange With Screws, Add Per Post	20.18		
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.52		
	For Custom Design Or Shapes (Square Tops, etc), Add	60.06		
	For Nylon Coating, Add	16.01		
05 52 13 00-0020	Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)			
	Note: Includes factory primed posts and four rails.			
05 52 13 00-0021	LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	96.72		15.61
	For Schedule 80 Handrail, Add	10.49		
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96		
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45		
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93		
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17		
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72		
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25		
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44		
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12		
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79		
	For 11 Gauge A513 Steel Tubing, Deduct	-14.41		
	For 12 Gauge A513 Steel Tubing, Deduct	-16.37		
	For 14 Gauge A513 Steel Tubing, Deduct	-21.61		
	For 16 Gauge A513 Steel Tubing, Deduct	-25.54		
	For ADA Handrail P-Loop End Return, Add Per Each	80.55		
	For Additional Off Set Handrail, ADA Attachment, Add	16.21		
	For Aluminum, Satin Finish, Add	27.51		
	For Aluminum, Clear Anodized Finish, Add	42.57		
	For Aluminum, Dark Anodized Finish, Add	49.12		
	For Galvanizing, Add	26.20		
	For Wrought Iron, Add	9.67		
	For Solid Steel Rails, Add	19.34		
	For 304 Stainless Steel, Add	209.57		
	For 316 Stainless Steel, Add	235.76		
	For 2" Wheel Guard, Add	6.22		
	For 4" High Kick Plate, Add	8.19		
	For 6" High Kick Plate, Add	13.10		
	For Curved Rail, Add	48.66		
	For Mounting On Stairs, Add	29.02		
	For Mounting On Slopes, Add	9.67		
	For Post Base Flange With Screws, Add Per Post	20.62		
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.18		
	For Custom Design Or Shapes (Square Tops, etc), Add	40.55		
	For Nylon Coating, Add	9.82		



Metals		05	05
Metal Fabrications		05 50	
Metal Railings		05 52	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 52 13 00-0022	LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	104.88	15.61
	For Schedule 80 Handrail, Add	15.99	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 11 Gauge A513 Steel Tubing, Deduct	-16.20	
	For 12 Gauge A513 Steel Tubing, Deduct	-18.41	
	For 14 Gauge A513 Steel Tubing, Deduct	-24.30	
	For 16 Gauge A513 Steel Tubing, Deduct	-28.72	
	For ADA Handrail P-Loop End Return, Add Per Each	96.03	
	For Additional Off Set Handrail, ADA Attachment, Add	17.93	
	For Aluminum, Satin Finish, Add	30.93	
	For Aluminum, Clear Anodized Finish, Add	47.87	
	For Aluminum, Dark Anodized Finish, Add	55.24	
	For Galvanizing, Add	29.46	
	For Wrought Iron, Add	10.49	
	For Solid Steel Rails, Add	20.98	
	For 304 Stainless Steel, Add	235.68	
	For 316 Stainless Steel, Add	265.14	
	For 2" Wheel Guard, Add	7.00	
	For 4" High Kick Plate, Add	9.21	
	For 6" High Kick Plate, Add	14.73	
	For Curved Rail, Add	53.56	
	For Mounting On Stairs, Add	31.46	
	For Mounting On Slopes, Add	10.49	
	For Post Base Flange With Screws, Add Per Post	20.62	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.18	
	For Custom Design Or Shapes (Square Tops, etc), Add	44.63	
	For Nylon Coating, Add	11.05	
05 52 13 00-0023	LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	113.04	15.61
	For Schedule 80 Handrail, Add	15.99	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 11 Gauge A513 Steel Tubing, Deduct	-18.00	
	For 12 Gauge A513 Steel Tubing, Deduct	-20.45	
	For 14 Gauge A513 Steel Tubing, Deduct	-27.00	
	For 16 Gauge A513 Steel Tubing, Deduct	-31.91	
	For ADA Handrail P-Loop End Return, Add Per Each	108.34	
	For Additional Off Set Handrail, ADA Attachment, Add	19.64	
	For Aluminum, Satin Finish, Add	34.36	
	For Aluminum, Clear Anodized Finish, Add	53.18	
	For Aluminum, Dark Anodized Finish, Add	61.36	
	For Galvanizing, Add	32.72	
	For Wrought Iron, Add	11.30	
	For Solid Steel Rails, Add	22.61	
	For 304 Stainless Steel, Add	261.79	
	For 316 Stainless Steel, Add	294.52	
	For 2" Wheel Guard, Add	7.77	
	For 4" High Kick Plate, Add	10.23	
	For 6" High Kick Plate, Add	16.36	
	For Curved Rail, Add	58.46	
	For Mounting On Stairs, Add	33.91	
	For Mounting On Slopes, Add	11.30	
	For Post Base Flange With Screws, Add Per Post	20.62	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.18	
	For Custom Design Or Shapes (Square Tops, etc), Add	48.71	
	For Nylon Coating, Add	12.27	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0024	LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	131.21	15.61
	For Schedule 80 Handrail, Add	18.22	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.49	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	94.46	
	For 11 Gauge A513 Steel Tubing, Deduct	-22.00	
	For 12 Gauge A513 Steel Tubing, Deduct	-25.00	
	For 14 Gauge A513 Steel Tubing, Deduct	-32.99	
	For 16 Gauge A513 Steel Tubing, Deduct	-38.99	
	For ADA Handrail P-Loop End Return, Add Per Each	131.07	
	For Additional Off Set Handrail, ADA Attachment, Add	22.62	
	For Aluminum, Satin Finish, Add	41.99	
	For Aluminum, Clear Anodized Finish, Add	64.99	
	For Aluminum, Dark Anodized Finish, Add	74.99	
	For Galvanizing, Add	39.99	
	For Wrought Iron, Add	13.12	
	For Solid Steel Rails, Add	26.24	
	For 304 Stainless Steel, Add	319.94	
	For 316 Stainless Steel, Add	359.93	
	For 2" Wheel Guard, Add	9.50	
	For 4" High Kick Plate, Add	12.50	
	For 6" High Kick Plate, Add	20.00	
	For Curved Rail, Add	69.36	
	For Mounting On Stairs, Add	39.36	
	For Mounting On Slopes, Add	13.12	
	For Post Base Flange With Screws, Add Per Post	20.62	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.18	
	For Custom Design Or Shapes (Square Tops, etc), Add	57.80	
	For Nylon Coating, Add	15.00	
05 52 13 00-0025	LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	152.51	15.61
	For Schedule 80 Handrail, Add	20.47	
	For 1/2" Diameter Pickets, >2" To 3" On Center, Add	58.96	
	For 1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	43.45	
	For 1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	27.93	
	For 3/4" Diameter Pickets, >2" To 3" On Center, Add	70.17	
	For 3/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	51.72	
	For 3/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	33.25	
	For 1" Diameter Pickets, >2" To 3" On Center, Add	92.44	
	For 1" Diameter Pickets, >3" To 4-1/2" On Center, Add	68.12	
	For 1" Diameter Pickets, >4-1/2" To 6" On Center, Add	43.79	
	For 1-1/4" Diameter Pickets, >3" To 4-1/2" On Center, Add	92.27	
	For 1-1/4" Diameter Pickets, >4-1/2" To 6" On Center, Add	67.96	
	For 1-1/2" Diameter Pickets, >3" To 4-1/2" On Center, Add	105.59	
	For 1-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	76.53	
	For 2" Diameter Pickets, >3" To 4-1/2" On Center, Add	133.49	
	For 2" Diameter Pickets, >4-1/2" To 6" On Center, Add	94.46	
	For 2-1/2" Diameter Pickets, >4-1/2" To 6" On Center, Add	135.65	
	For 11 Gauge A513 Steel Tubing, Deduct	-26.68	
	For 12 Gauge A513 Steel Tubing, Deduct	-30.32	
	For 14 Gauge A513 Steel Tubing, Deduct	-40.02	
	For 16 Gauge A513 Steel Tubing, Deduct	-47.30	
	For ADA Handrail P-Loop End Return, Add Per Each	179.61	
	For Additional Off Set Handrail, ADA Attachment, Add	26.18	
	For Aluminum, Satin Finish, Add	50.94	
	For Aluminum, Clear Anodized Finish, Add	78.83	
	For Aluminum, Dark Anodized Finish, Add	90.96	
	For Galvanizing, Add	48.51	
	For Wrought Iron, Add	15.25	
	For Solid Steel Rails, Add	30.50	
	For 304 Stainless Steel, Add	388.10	
	For 316 Stainless Steel, Add	436.61	
	For 2" Wheel Guard, Add	11.52	
	For 4" High Kick Plate, Add	15.16	
	For 6" High Kick Plate, Add	24.26	
	For Curved Rail, Add	82.14	
	For Mounting On Stairs, Add	45.75	
	For Mounting On Slopes, Add	15.25	
	For Post Base Flange With Screws, Add Per Post	20.62	
	For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.18	
	For Custom Design Or Shapes (Square Tops, etc), Add	68.45	
	For Nylon Coating, Add	18.19	

05 52 13 00-0026 Railing Infill Panels (05 52 13)

Note: Includes field welds and touch-up of welds.



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0027			Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026) Note: Square weave or square welded wire mesh.		
05 52 13 00-0028	SF		Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.42	
05 52 13 00-0029	SF		Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	16.37	
05 52 13 00-0030	SF		Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	17.22	
05 52 13 00-0031	SF		Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	29.11	
05 52 13 00-0032			Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033	SF		Powder Coated Steel, Perforated Metal, Railing Infill Panel	15.12	
05 52 13 00-0034	SF		Galvanized Steel, Perforated Metal, Railing Infill Panel	15.64	
05 52 13 00-0035	SF		Aluminum, Perforated Metal, Railing Infill Panel	16.74	
05 52 13 00-0036	SF		Stainless Steel, Perforated Metal, Railing Infill Panel	33.59	
05 52 13 00-0037			Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038	SF		Powder Coated Steel, Expanded Metal, Railing Infill Panel	6.82	
05 52 13 00-0039	SF		Galvanized Steel, Expanded Metal, Railing Infill Panel	13.94	
05 52 13 00-0040	SF		Aluminum, Expanded Metal, Railing Infill Panel	18.31	
05 52 13 00-0041	SF		Stainless Steel, Expanded Metal, Railing Infill Panel	27.29	
05 52 13 00-0042			Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13) Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043	LF		1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	38.95	6.69
			For Schedule 80 Handrail, Add	2.83	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.89	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.56	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.34	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.67	
			For Stainless Steel, Add	44.46	
			For Aluminum, Satin Finish, Add	9.34	
			For Curved Rail, Add	11.69	
			For Aluminum, Clear Anodized Finish, Add	14.45	
			For Aluminum, Dark Anodized Finish, Add	16.67	
			For Galvanized Finish, Add	6.67	
05 52 13 00-0044	LF		1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	39.67	6.69
			For Schedule 80 Handrail, Add	3.37	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.05	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.74	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.57	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.95	
			For Stainless Steel, Add	45.90	
			For Aluminum, Satin Finish, Add	9.64	
			For Curved Rail, Add	11.90	
			For Aluminum, Clear Anodized Finish, Add	14.92	
			For Aluminum, Dark Anodized Finish, Add	17.21	
			For Galvanized Finish, Add	6.69	
05 52 13 00-0045	LF		1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	40.39	6.69
			For Schedule 80 Handrail, Add	10.72	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.21	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.92	
			For 14 Gauge A513 Steel Tubing, Deduct	-7.81	
			For 16 Gauge A513 Steel Tubing, Deduct	-9.23	
			For Stainless Steel, Add	47.34	
			For Aluminum, Satin Finish, Add	9.94	
			For Curved Rail, Add	12.12	
			For Aluminum, Clear Anodized Finish, Add	15.39	
			For Aluminum, Dark Anodized Finish, Add	17.75	
			For Galvanized Finish, Add	7.10	
05 52 13 00-0046	LF		2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	48.63	6.69
			For Schedule 80 Handrail, Add	4.38	
			For 11 Gauge A513 Steel Tubing, Deduct	-7.02	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.98	
			For 14 Gauge A513 Steel Tubing, Deduct	-10.53	
			For 16 Gauge A513 Steel Tubing, Deduct	-12.44	
			For Stainless Steel, Add	63.82	
			For Aluminum, Satin Finish, Add	13.40	
			For Curved Rail, Add	14.59	
			For Aluminum, Clear Anodized Finish, Add	20.74	
			For Aluminum, Dark Anodized Finish, Add	23.93	
			For Galvanized Finish, Add	9.57	
05 52 13 00-0047	LF		2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	55.45	6.69
			For Schedule 80 Handrail, Add	4.83	
			For 11 Gauge A513 Steel Tubing, Deduct	-8.52	
			For 12 Gauge A513 Steel Tubing, Deduct	-9.68	
			For 14 Gauge A513 Steel Tubing, Deduct	-12.78	
			For 16 Gauge A513 Steel Tubing, Deduct	-15.10	
			For Stainless Steel, Add	77.46	
			For Aluminum, Satin Finish, Add	16.27	
			For Curved Rail, Add	16.64	
			For Aluminum, Clear Anodized Finish, Add	25.17	
			For Aluminum, Dark Anodized Finish, Add	29.05	
			For Galvanized Finish, Add	11.62	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 52 13 00-0048 Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel**Pipe Railings** (05 52 13)

Note: Includes factory primed, fasteners and field touch-up of welds.

05 52 13 00-0049	LF	1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	47.38	7.02
		For Schedule 80 Handrail, Add	2.83	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.75	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.67	
		For 14 Gauge A513 Steel Tubing, Deduct	-10.12	
		For 16 Gauge A513 Steel Tubing, Deduct	-11.96	
		For Stainless Steel, Add	61.32	
		For Aluminum, Satin Finish, Add	12.88	
		For Curved Rail, Add	14.21	
		For Aluminum, Clear Anodized Finish, Add	19.93	
		For Aluminum, Dark Anodized Finish, Add	23.00	
		For Galvanized Finish, Add	9.20	
05 52 13 00-0050	LF	1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	48.38	7.02
		For Schedule 80 Handrail, Add	3.37	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.97	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.92	
		For 14 Gauge A513 Steel Tubing, Deduct	-10.45	
		For 16 Gauge A513 Steel Tubing, Deduct	-12.35	
		For Stainless Steel, Add	63.32	
		For Aluminum, Satin Finish, Add	13.30	
		For Curved Rail, Add	14.51	
		For Aluminum, Clear Anodized Finish, Add	20.58	
		For Aluminum, Dark Anodized Finish, Add	23.75	
		For Galvanized Finish, Add	9.50	
05 52 13 00-0051	LF	1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	49.14	7.02
		For Schedule 80 Handrail, Add	10.72	
		For 11 Gauge A513 Steel Tubing, Deduct	-7.13	
		For 12 Gauge A513 Steel Tubing, Deduct	-8.11	
		For 14 Gauge A513 Steel Tubing, Deduct	-10.70	
		For 16 Gauge A513 Steel Tubing, Deduct	-12.64	
		For Stainless Steel, Add	64.84	
		For Aluminum, Satin Finish, Add	13.62	
		For Curved Rail, Add	14.74	
		For Aluminum, Clear Anodized Finish, Add	21.07	
		For Aluminum, Dark Anodized Finish, Add	24.32	
		For Galvanized Finish, Add	9.73	
05 52 13 00-0052	LF	2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	60.65	7.02
		For Schedule 80 Handrail, Add	4.38	
		For 11 Gauge A513 Steel Tubing, Deduct	-9.66	
		For 12 Gauge A513 Steel Tubing, Deduct	-10.98	
		For 14 Gauge A513 Steel Tubing, Deduct	-14.50	
		For 16 Gauge A513 Steel Tubing, Deduct	-17.13	
		For Stainless Steel, Add	87.86	
		For Aluminum, Satin Finish, Add	18.45	
		For Curved Rail, Add	18.20	
		For Aluminum, Clear Anodized Finish, Add	28.55	
		For Aluminum, Dark Anodized Finish, Add	32.95	
		For Galvanized Finish, Add	13.18	
05 52 13 00-0053	LF	2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	68.18	7.02
		For Schedule 80 Handrail, Add	4.83	
		For 11 Gauge A513 Steel Tubing, Deduct	-11.32	
		For 12 Gauge A513 Steel Tubing, Deduct	-12.87	
		For 14 Gauge A513 Steel Tubing, Deduct	-16.98	
		For 16 Gauge A513 Steel Tubing, Deduct	-20.07	
		For Stainless Steel, Add	102.92	
		For Aluminum, Satin Finish, Add	21.61	
		For Curved Rail, Add	20.45	
		For Aluminum, Clear Anodized Finish, Add	33.45	
		For Aluminum, Dark Anodized Finish, Add	38.60	
		For Galvanized Finish, Add	15.44	

05 52 13 00-0054 Remove/Reinstall Pipe Railing (05 52 13)

05 52 13 00-0055	LF	Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	25.10	
05 52 13 00-0056	LF	Removal And Reinstallation Of Floor Mounted Pipe Railing	33.42	
05 52 13 00-0057	EA	Install New Galvanized Steel Pipe Railing Bracket	67.36	
		For Stainless Steel, Add	67.80	

05 53 Metal Gratings (05 50)**05 53 13 Bar Gratings** (05 53)**05 53 13 00-0001 Welded Grating** (05 53 13)

Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0002			Steel, Welded Grating (05 53 13 00-0001) Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	14.28 0.22 2.01 37.97 3.45 1.28 -1.94	1.23
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Set In Place Without Bolting Or Tack Welding, Deduct	19.18 0.22 2.84 53.70 4.89 1.81 -2.06	1.23
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	17.43 0.22 2.55 48.09 4.37 1.62 0.16 -2.02	1.23
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	24.08 0.22 3.68 69.43 6.32 2.34 0.16 -2.18	1.23
05 53 13 00-0007	SF		1" x 1/4" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	30.72 0.22 4.81 90.75 8.25 3.05 0.16 -2.35	1.23
05 53 13 00-0008	SF		1-1/4" x 1/8" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	20.61 0.22 3.09 58.29 5.30 1.96 0.16 -2.10	1.23
05 53 13 00-0009	SF		1-1/4" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	28.69 0.22 4.46 84.23 7.66 2.83 0.16 -2.30	1.23
05 53 13 00-0010	SF		1-1/2" x 1/8" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	23.80 0.22 3.63 68.53 6.23 2.31 0.16 -2.18	1.23
05 53 13 00-0011	SF		1-1/2" x 3/16" Steel, Welded Grating For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center For Bearing Bars At 15/16" On-Center, Add For Crossbars At 2" On-Center, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	34.12 0.22 5.29 99.86 9.08 3.36 0.16 -2.79	1.51

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0012	SF		1-1/2" x 1/4" Steel, Welded Grating	44.23	1.51
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	7.01	
			For 304 Stainless Steel, Add	132.32	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	12.04	
			For Crossbars At 2" On-Center, Add	4.45	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.05	
05 53 13 00-0013	SF		1-3/4" x 3/16" Steel, Welded Grating	39.05	1.51
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	6.13	
			For 304 Stainless Steel, Add	115.69	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	10.52	
			For Crossbars At 2" On-Center, Add	3.89	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.92	
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating.....	43.67	1.51
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	6.91	
			For 304 Stainless Steel, Add	130.52	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	11.87	
			For Crossbars At 2" On-Center, Add	4.39	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.03	
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating	48.57	1.51
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	7.75	
			For 304 Stainless Steel, Add	146.25	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	13.30	
			For Crossbars At 2" On-Center, Add	4.92	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.16	
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating	53.19	1.51
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	8.53	
			For 304 Stainless Steel, Add	161.08	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	14.65	
			For Crossbars At 2" On-Center, Add	5.42	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.27	
05 53 13 00-0017			Pressure Locked Grating (05 53 13)		
			Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			Steel, Pressure Locked Grating (05 53 13 00-0017)		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating.....	27.12	1.23
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.05	
			For 304 Stainless Steel, Add	46.16	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	7.20	
			For Crossbars At 2" On-Center, Add	2.66	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26	
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating.....	33.42	1.23
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.08	
			For 304 Stainless Steel, Add	57.94	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	9.04	
			For Crossbars At 2" On-Center, Add	3.34	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.42	
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating.....	29.81	1.23
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.49	
			For 304 Stainless Steel, Add	51.19	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	7.99	
			For Crossbars At 2" On-Center, Add	2.95	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.33	



Metals			05
Metal Fabrications			05 50
Metal Gratings			05 53

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0022	SF	1" x 3/16" Steel, Pressure Locked Grating.....	40.63	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	6.26		
		For 304 Stainless Steel, Add	71.43		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 7/16" On-Center, Add	55.36		
		For Bearing Bars At 15/16" On-Center, Add	11.15		
		For Crossbars At 2" On-Center, Add	4.12		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.60		
05 53 13 00-0023	SF	1-1/4" x 1/8" Steel, Pressure Locked Grating.....	33.42	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	5.08		
		For 304 Stainless Steel, Add	57.94		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	9.04		
		For Crossbars At 2" On-Center, Add	3.34		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.42		
05 53 13 00-0024	SF	1-1/4" x 3/16" Steel, Pressure Locked Grating.....	45.63	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	7.08		
		For 304 Stainless Steel, Add	80.79		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	12.61		
		For Crossbars At 2" On-Center, Add	4.66		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.72		
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating.....	37.20	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	5.70		
		For 304 Stainless Steel, Add	65.02		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	10.15		
		For Crossbars At 2" On-Center, Add	3.75		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.51		
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....	51.44	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	7.94		
		For 304 Stainless Steel, Add	90.61		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 7/16" On-Center, Add	70.22		
		For Bearing Bars At 15/16" On-Center, Add	14.14		
		For Crossbars At 2" On-Center, Add	5.23		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.23		
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....	56.72	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	8.81		
		For 304 Stainless Steel, Add	100.49		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	15.68		
		For Crossbars At 2" On-Center, Add	5.80		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.36		
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....	61.03	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	9.52		
		For 304 Stainless Steel, Add	108.56		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	16.94		
		For Crossbars At 2" On-Center, Add	6.27		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.47		
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....	65.16	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	10.19		
		For 304 Stainless Steel, Add	116.28		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	18.15		
		For Crossbars At 2" On-Center, Add	6.71		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.57		
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....	68.73	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	10.78		
		For 304 Stainless Steel, Add	122.96		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	19.19		
		For Crossbars At 2" On-Center, Add	7.10		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.66		

05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0032	SF		3/4" x 1/8" Aluminum, Pressure Locked Grating	17.23	1.23
			For Bearing Bars At 15/16" On-Center, Add	4.32	
			For Crossbars At 2" On-Center, Add	1.60	
			For Set In Place Without Bolting, Deduct	-2.01	
			For Powder Coating, Add	2.22	
05 53 13 00-0033	SF		3/4" x 3/16" Aluminum, Pressure Locked Grating	23.29	1.23
			For Bearing Bars At 15/16" On-Center, Add	6.09	
			For Crossbars At 2" On-Center, Add	2.25	
			For Set In Place Without Bolting, Deduct	-2.16	
			For Powder Coating, Add	3.13	
05 53 13 00-0034	SF		1" x 1/8" Aluminum, Pressure Locked Grating	21.99	1.23
			For Bearing Bars At 15/16" On-Center, Add	5.71	
			For Crossbars At 2" On-Center, Add	2.11	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.13	
			For Powder Coating, Add	2.93	
05 53 13 00-0035	SF		1" x 3/16" Aluminum, Pressure Locked Grating	29.83	1.23
			For Bearing Bars At 7/16" On-Center, Add	39.70	
			For Bearing Bars At 15/16" On-Center, Add	7.99	
			For Crossbars At 2" On-Center, Add	2.96	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.33	
			For Powder Coating, Add	4.11	
05 53 13 00-0036	SF		1-1/4" x 1/8" Aluminum, Pressure Locked Grating	25.44	1.23
			For Bearing Bars At 15/16" On-Center, Add	6.71	
			For Crossbars At 2" On-Center, Add	2.48	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.22	
			For Powder Coating, Add	3.45	
05 53 13 00-0037	SF		1-1/4" x 3/16" Aluminum, Pressure Locked Grating	33.98	1.23
			For Bearing Bars At 15/16" On-Center, Add	9.21	
			For Crossbars At 2" On-Center, Add	3.41	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.43	
			For Powder Coating, Add	4.73	
05 53 13 00-0038	SF		1-1/2" x 1/8" Aluminum, Pressure Locked Grating	28.68	1.23
			For Bearing Bars At 15/16" On-Center, Add	7.66	
			For Crossbars At 2" On-Center, Add	2.83	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.30	
			For Powder Coating, Add	3.93	
05 53 13 00-0039	SF		1-1/2" x 3/16" Aluminum, Pressure Locked Grating	38.26	1.23
			For Bearing Bars At 7/16" On-Center, Add	51.92	
			For Bearing Bars At 15/16" On-Center, Add	10.46	
			For Crossbars At 2" On-Center, Add	3.87	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.54	
			For Powder Coating, Add	5.37	
05 53 13 00-0040	SF		1-3/4" x 3/16" Aluminum, Pressure Locked Grating	42.36	1.23
			For Bearing Bars At 15/16" On-Center, Add	11.65	
			For Crossbars At 2" On-Center, Add	4.31	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.64	
			For Powder Coating, Add	5.99	
05 53 13 00-0041	SF		2" x 3/16" Aluminum, Pressure Locked Grating	47.22	1.23
			For Bearing Bars At 15/16" On-Center, Add	13.07	
			For Crossbars At 2" On-Center, Add	4.84	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.76	
			For Powder Coating, Add	6.72	
05 53 13 00-0042	SF		2-1/4" x 3/16" Aluminum, Pressure Locked Grating	51.04	1.23
			For Bearing Bars At 15/16" On-Center, Add	14.19	
			For Crossbars At 2" On-Center, Add	5.25	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.86	
			For Powder Coating, Add	7.29	
05 53 13 00-0043	SF		2-1/2" x 3/16" Aluminum, Pressure Locked Grating	55.58	1.23
			For Bearing Bars At 15/16" On-Center, Add	15.51	
			For Crossbars At 2" On-Center, Add	5.74	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.97	
			For Powder Coating, Add	7.97	

05 53 13 00-0044 Swage Locked Grating (05 53 13)

Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.

05 53 13 00-0045 Steel, Swage Locked Grating (05 53 13 00-0044)

Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0046	SF	1" x 3/16" Steel, Swaged Grating.....	44.48	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.87		
		For 304 Stainless Steel, Add	69.69		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	26.90		
		For Crossbars At 2" On-Center, Add	3.36		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.69		
05 53 13 00-0047	SF	1-1/4" x 3/16" Steel, Swaged Grating	49.66	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.34		
		For 304 Stainless Steel, Add	78.27		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	30.21		
		For Crossbars At 2" On-Center, Add	3.78		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.82		
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating	54.27	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.72		
		For 304 Stainless Steel, Add	84.99		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	32.81		
		For Crossbars At 2" On-Center, Add	4.10		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.30		
05 53 13 00-0049	SF	1-3/4" x 3/16" Steel, Swaged Grating	62.22	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	5.45		
		For 304 Stainless Steel, Add	98.17		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	37.89		
		For Crossbars At 2" On-Center, Add	4.74		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.50		
05 53 13 00-0050	SF	2" x 3/16" Steel, Swaged Grating.....	70.20	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	6.18		
		For 304 Stainless Steel, Add	111.40		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	43.00		
		For Crossbars At 2" On-Center, Add	5.38		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.70		
05 53 13 00-0051	SF	2-1/4" x 3/16" Steel, Swaged Grating	78.14	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	6.91		
		For 304 Stainless Steel, Add	124.57		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	48.08		
		For Crossbars At 2" On-Center, Add	6.01		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.89		
05 53 13 00-0052	SF	2-1/2" x 3/16" Steel, Swaged Grating	86.12	1.51	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	7.65		
		For 304 Stainless Steel, Add	137.80		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	53.19		
		For Crossbars At 2" On-Center, Add	6.65		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-4.09		
05 53 13 00-0053		Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)			
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.			
05 53 13 00-0054	SF	1" x 1/8" Aluminum, Swaged Grating.....	20.32	1.23	
		For Bearing Bars At 15/16" On-Center, Add	11.44		
		For Crossbars At 2" On-Center, Add	1.43		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.09		
		For Powder Coating, Add	2.68		
05 53 13 00-0055	SF	1" x 3/16" Aluminum, Swaged Grating.....	26.30	1.23	
		For Bearing Bars At 15/16" On-Center, Add	15.26		
		For Crossbars At 2" On-Center, Add	1.91		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.24		
		For Powder Coating, Add	3.58		
05 53 13 00-0056	SF	1-1/4" x 1/8" Aluminum, Swaged Grating.....	23.01	1.23	
		For Bearing Bars At 15/16" On-Center, Add	13.16		
		For Crossbars At 2" On-Center, Add	1.64		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.16		
		For Powder Coating, Add	3.08		

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 53 13 00-0057	SF	1-1/4" x 3/16" Aluminum, Swaged Grating.....	30.32	1.23	
		For Bearing Bars At 15/16" On-Center, Add	17.84		
		For Crossbars At 2" On-Center, Add	2.23		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.34		
		For Powder Coating, Add	4.18		
05 53 13 00-0058	SF	1-1/2" x 1/8" Aluminum, Swaged Grating.....	26.19	1.23	
		For Bearing Bars At 15/16" On-Center, Add	15.19		
		For Crossbars At 2" On-Center, Add	1.90		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.24		
		For Powder Coating, Add	3.56		
05 53 13 00-0059	SF	1-1/2" x 3/16" Aluminum, Swaged Grating.....	34.63	1.23	
		For Bearing Bars At 15/16" On-Center, Add	20.60		
		For Crossbars At 2" On-Center, Add	2.57		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.45		
		For Powder Coating, Add	4.83		
05 53 13 00-0060	SF	1-3/4" x 3/16" Aluminum, Swaged Grating.....	39.59	1.23	
		For Bearing Bars At 15/16" On-Center, Add	23.77		
		For Crossbars At 2" On-Center, Add	2.97		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.57		
		For Powder Coating, Add	5.57		
05 53 13 00-0061	SF	2" x 3/16" Aluminum, Swaged Grating.....	44.53	1.23	
		For Bearing Bars At 15/16" On-Center, Add	26.93		
		For Crossbars At 2" On-Center, Add	3.37		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.69		
		For Powder Coating, Add	6.31		
05 53 13 00-0062	SF	2-1/4" x 3/16" Aluminum, Swaged Grating.....	49.49	1.23	
		For Bearing Bars At 15/16" On-Center, Add	30.11		
		For Crossbars At 2" On-Center, Add	3.76		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.82		
		For Powder Coating, Add	7.06		
05 53 13 00-0063	SF	2-1/2" x 3/16" Aluminum, Swaged Grating.....	54.43	1.23	
		For Bearing Bars At 15/16" On-Center, Add	33.27		
		For Crossbars At 2" On-Center, Add	4.16		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.94		
		For Powder Coating, Add	7.80		
05 53 13 00-0064		Riveted Grating (05 53 13)			
		Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.			
05 53 13 00-0065		Steel, Riveted Grating (05 53 13 00-0064)			
		Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.			
05 53 13 00-0066	SF	3/4" x 1/8", 7.0 Lb./SF, Steel, Riveted Grating.....	84.65	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.95		
		For 304 Stainless Steel, Add	70.61		
		For 5/8" Clear Opening, Add	28.36		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.70		
05 53 13 00-0067	SF	3/4" x 3/16", 8.5 Lb./SF, Steel, Riveted Grating.....	99.70	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.67		
		For 304 Stainless Steel, Add	83.54		
		For 5/8" Clear Opening, Add	33.55		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-4.07		
05 53 13 00-0068	SF	1" x 1/8", 8.0 Lb./SF, Steel, Riveted Grating.....	91.58	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.28		
		For 304 Stainless Steel, Add	76.56		
		For 5/8" Clear Opening, Add	30.75		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.87		
05 53 13 00-0069	SF	1" x 3/16", 9.5 Lb./SF, Steel, Riveted Grating.....	105.43	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.94		
		For 304 Stainless Steel, Add	88.46		
		For 5/8" Clear Opening, Add	35.53		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-4.22		
05 53 13 00-0070	SF	1-1/4" x 1/8", 9.0 Lb./SF, Steel, Riveted Grating.....	97.32	1.23	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.55		
		For 304 Stainless Steel, Add	81.49		
		For 5/8" Clear Opening, Add	32.73		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-4.01		



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
05 53 13 00-0071	SF 1-1/4" x 3/16", 11.1 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct		116.11 0.22 5.46 97.63 39.21 0.16 -4.48	1.23
05 53 13 00-0072	SF 1-1/2" x 1/8", 10.1 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct		103.40 0.22 4.82 86.24 34.63 0.16 -4.53	1.51
05 53 13 00-0073	SF 1-1/2" x 3/16", 12.5 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct		123.49 0.22 5.78 103.49 41.57 0.16 -5.03	1.51
05 53 13 00-0074	SF 1-3/4" x 3/16", 14.0 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct		133.74 0.22 6.28 112.30 45.10 0.16 -5.28	1.51
05 53 13 00-0075	SF 2" x 3/16", 17.0 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct		156.63 0.22 7.37 131.96 53.00 0.16 -5.86	1.51
05 53 13 00-0076	SF 2-1/4" x 3/16", 18.5 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct		164.61 0.22 7.76 138.81 55.75 0.16 -6.06	1.51
05 53 13 00-0077	SF 2-1/2" x 3/16", 20.0 Lb./SF, Steel, Riveted Grating..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct		171.71 0.22 8.10 144.91 58.20 0.16 -6.23	1.51
05 53 13 00-0078	Aluminum, Riveted Grating (05 53 13 00-0064) Note: 1" clear opening, bolted in place and in all sizes.			
05 53 13 00-0079	SF 3/4" x 1/8", 2.4 Lb./SF, Aluminum, Riveted Grating..... For 5/8" Clear Opening, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct		43.25 14.08 6.12 -2.66	1.23
05 53 13 00-0080	SF 3/4" x 3/16", 2.9 Lb./SF, Aluminum, Riveted Grating..... For 5/8" Clear Opening, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct		51.32 16.86 7.33 -2.86	1.23
05 53 13 00-0081	SF 1" x 1/8", 2.7 Lb./SF, Aluminum, Riveted Grating..... For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct		47.56 15.56 0.16 6.77 -2.77	1.23
05 53 13 00-0082	SF 1" x 3/16", 3.2 Lb./SF, Aluminum, Riveted Grating..... For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct		55.45 18.29 0.16 7.95 -2.97	1.23
05 53 13 00-0083	SF 1-1/4" x 1/8", 3.1 Lb./SF, Aluminum, Riveted Grating..... For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct		53.33 17.55 0.16 7.63 -2.91	1.23
05 53 13 00-0084	SF 1-1/4" x 3/16", 3.8 Lb./SF, Aluminum, Riveted Grating..... For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct		64.28 21.33 0.16 9.27 -3.19	1.23
05 53 13 00-0085	SF 1-1/2" x 1/8", 3.4 Lb./SF, Aluminum, Riveted Grating..... For 5/8" Clear Opening, Add For Serrated Wear Surface, Add For Powder Coating, Add For Set In Place Without Bolting, Deduct		57.28 18.92 0.16 8.22 -3.01	1.23

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 Lb./SF, Aluminum, Riveted Grating	71.17	1.23
			For 5/8" Clear Opening, Add	23.71	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	10.31	
			For Set In Place Without Bolting, Deduct	-3.36	
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 Lb./SF, Aluminum, Riveted Grating	78.46	1.23
			For 5/8" Clear Opening, Add	26.22	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	11.40	
			For Set In Place Without Bolting, Deduct	-3.54	
05 53 13 00-0088	SF		2" x 3/16", 5.8 Lb./SF, Aluminum, Riveted Grating	93.43	1.23
			For 5/8" Clear Opening, Add	31.39	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	13.65	
			For Set In Place Without Bolting, Deduct	-3.92	
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 Lb./SF, Aluminum, Riveted Grating	101.92	1.23
			For 5/8" Clear Opening, Add	34.32	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	14.92	
			For Set In Place Without Bolting, Deduct	-4.13	
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 Lb./SF, Aluminum, Riveted Grating	113.31	1.23
			For 5/8" Clear Opening, Add	38.25	
			For Serrated Wear Surface, Add	0.16	
			For Powder Coating, Add	16.63	
			For Set In Place Without Bolting, Deduct	-4.41	

05 53 16 Plank Gratings (05 53)**05 53 16 00-0001 Grate-Lock Steel Plank Grating** (05 53 16)

Note: Smooth or traction grip surface.

05 53 16 00-0002	SF		1-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating	18.26	0.95
			For Stair Tread Application, Add	2.11	
05 53 16 00-0003	SF		2-1/2" Height, 18 Gauge Steel Grate-Lock Plank Grating	19.48	1.18
			For Stair Tread Application, Add	2.30	
05 53 16 00-0004	SF		3" Height, 18 Gauge Steel Grate-Lock Plank Grating	20.55	1.28
			For Stair Tread Application, Add	2.44	
05 53 16 00-0005	SF		4" Height, 18 Gauge Steel Grate-Lock Plank Grating	22.43	1.39
			For Stair Tread Application, Add	2.66	
05 53 16 00-0006	SF		1-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	22.23	1.06
			For Stair Tread Application, Add	2.54	
05 53 16 00-0007	SF		2-1/2" Height, 16 Gauge Steel Grate-Lock Plank Grating	23.65	1.28
			For Stair Tread Application, Add	2.75	
05 53 16 00-0008	SF		1-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	27.29	1.23
			For Stair Tread Application, Add	3.10	
05 53 16 00-0009	SF		2-1/2" Height, 14 Gauge Steel Grate-Lock Plank Grating	29.05	1.51
			For Stair Tread Application, Add	3.36	
05 53 16 00-0010	SF		3" Height, 14 Gauge Steel Grate-Lock Plank Grating	31.08	1.90
			For Stair Tread Application, Add	3.68	
05 53 16 00-0011	SF		4" Height, 14 Gauge Steel Grate-Lock Plank Grating	34.31	2.12
			For Stair Tread Application, Add	4.07	

05 54 Metal Floor Plates (05 50)**05 54 00 00-0001 Steel Floor Plates** (05 54)

05 54 00 00-0002	SF		16 Gauge Steel Raised Or Diamond Pattern Floor Plates	19.94	1.45
05 54 00 00-0003	SF		14 Gauge Steel Raised Or Diamond Pattern Floor Plates	22.83	1.45
05 54 00 00-0004	SF		12 Gauge Steel Raised Or Diamond Pattern Floor Plates	28.66	1.45
05 54 00 00-0005	SF		1/8" Steel Raised Or Diamond Pattern Floor Plates	38.38	1.56
05 54 00 00-0006	SF		1/4" Steel Raised Or Diamond Pattern Floor Plates	48.83	1.67

05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)

05 54 00 00-0008	SF		0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	31.05	1.23
			For Powder Coating, Add	4.29	
05 54 00 00-0009	SF		0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	35.63	1.45
			For Powder Coating, Add	4.93	
05 54 00 00-0010	SF		0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate	40.23	1.56
			For Powder Coating, Add	5.57	

05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)

05 54 00 00-0012	SF		1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	39.24	1.67
05 54 00 00-0013	SF		3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate	46.91	1.90
05 54 00 00-0014	SF		1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate	60.79	2.23

05 55 Metal Stair Treads and Nosings (05 50)**05 55 13 Metal Stair Treads** (05 55)**05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads** (05 55 13)

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Stair Treads and Nosings	05 55	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
05 55 13 00-0002	LF 8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread <i>For 3/8" Thick, Add</i>	75.69 15.93		7.48
05 55 13 00-0003	LF 9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread <i>For 3/8" Thick, Add</i>	83.29 17.83		7.48
05 55 13 00-0004	LF 10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread <i>For 3/8" Thick, Add</i>	90.88 19.73		7.48
05 55 13 00-0005	LF 11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread <i>For 3/8" Thick, Add</i>	98.51 21.64		7.48
05 55 13 00-0006	LF 12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread <i>For 3/8" Thick, Add</i>	106.07 23.53		7.48
05 55 13 00-0007	Abrasive Cast Iron Stair Treads (05 55 13) Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.			
05 55 13 00-0008	LF 8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	105.18		7.48
05 55 13 00-0009	LF 9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	116.45		7.48
05 55 13 00-0010	LF 10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	127.74		7.48
05 55 13 00-0011	LF 11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	139.00		7.48
05 55 13 00-0012	LF 12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread	150.29		7.48
05 55 13 00-0013	Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.			
05 55 13 00-0014	LF 6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	40.12		7.48
05 55 13 00-0015	LF 9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	47.01		7.48
05 55 13 00-0016	LF 11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	50.05		7.48
05 55 13 00-0017	Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.			
05 55 13 00-0018	LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	59.14		7.48
	<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.78		
	<i>For Two Color Tread, Add</i>	3.59		
05 55 13 00-0019	LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	59.71		7.48
	<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.78		
	<i>For Two Color Tread, Add</i>	3.59		
05 55 13 00-0020	LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	72.10		7.48
	<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.78		
	<i>For Two Color Tread, Add</i>	3.59		
05 55 13 00-0021	LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	82.96		7.48
	<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.78		
	<i>For Two Color Tread, Add</i>	3.59		
05 55 13 00-0022	LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread	97.12		7.48
	<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.78		
	<i>For Two Color Tread, Add</i>	3.59		
05 55 13 00-0023	Stair Landing Treads (05 55 13)			
05 55 13 00-0024	Abrasive Cast Aluminum Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.			
05 55 13 00-0025	SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads	106.07		7.48
	<i>For 3/8" Thick, Add</i>	23.53		
05 55 13 00-0026	Abrasive Cast Iron Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.			
05 55 13 00-0027	SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....	150.29		7.48
05 55 13 00-0028	Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads (05 55 13 00-0023) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.			
05 55 13 00-0029	SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads	98.36		7.48
	<i>For Epoxy Sealed For Corrosive Environment, Add</i>	4.78		
05 55 13 00-0030	Open Cast Iron Stair Tread (05 55 13) Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.			
05 55 13 00-0031	RSR 3'-6" Wide, Open Cast Iron Stair Tread	697.85		44.62
	<i>For Closed Riser, Add</i>	59.76		
05 55 13 00-0032	RSR 4'-0" Wide, Open Cast Iron Stair Tread	783.00		51.31
	<i>For Closed Riser, Add</i>	66.89		
05 55 13 00-0033	RSR 5'-0" Wide, Open Cast Iron Stair Tread	862.70		60.23
	<i>For Closed Riser, Add</i>	73.61		
05 55 16	Metal Stair Nosings (05 55)			

05 Metals**05 50 Metal Fabrications****05 55 Metal Stair Treads and Nosings**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 55 16 00-0001	Abrasive Cast Aluminum Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.			
05 55 16 00-0002	LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	32.06		5.10
	For 3/8" Thick, Add.....	5.98		
05 55 16 00-0003	LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	39.40		5.10
	For 3/8" Thick, Add.....	7.81		
05 55 16 00-0004	LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing.....	55.76		5.10
	For 3/8" Thick, Add.....	11.90		
05 55 16 00-0005	Abrasive Cast Iron Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.			
05 55 16 00-0006	LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	37.42		5.10
	For 3/8" Thick, Add.....	7.32		
05 55 16 00-0007	LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	46.46		5.10
	For 3/8" Thick, Add.....	9.58		
05 55 16 00-0008	LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing.....	64.33		5.10
	For 3/8" Thick, Add.....	14.04		
05 55 16 00-0009	Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings (05 55 16) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.			
05 55 16 00-0010	LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	27.09		5.10
05 55 16 00-0011	LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	30.63		5.10
05 55 16 00-0012	LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	33.33		5.10
05 55 16 00-0013	LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	41.72		5.10
05 55 16 00-0014	LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	28.04		5.10
05 55 16 00-0015	LF 3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	31.06		5.10
05 55 16 00-0016	LF 4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	34.05		5.10
05 55 16 00-0017	LF 3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	32.23		5.10
05 56 Metal Castings (05 50)				
05 56 00 00-0001	Castings (05 56)			
05 56 00 00-0002	LB Up To 150 Lb., Miscellaneous Castings, Light Section.....	5.50		0.56
05 56 00 00-0003	LB >150 Lb., Miscellaneous Castings, Heavy Section.....	9.41		0.44
05 58 Formed Metal Fabrications (05 50)				
05 58 16 Formed Metal Enclosures	(05 58)			
05 58 16 00-0001	Drip Pan (05 58 16)			
05 58 16 00-0002	SF Stainless Steel Drip Pan.....	117.34		6.97
05 58 16 00-0003	SF Galvanized Steel Drip Pan.....	115.91		6.97
05 58 16 00-0004	SF Aluminum Drip Pan.....	81.33		5.58
05 58 16 00-0005	SF Plastic Drip Pan.....	20.97		4.88
05 58 23 Formed Metal Guards	(05 58)			
05 58 23 00-0001	Protective Guard Rails (05 58 23) Note: Includes painted finish.			
05 58 23 00-0002	2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001) Note: Steel King Armor Guard.			
05 58 23 00-0003	Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002) Note: Excludes posts. Includes fasteners.			
05 58 23 00-0004	EA 1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	218.10		24.49
05 58 23 00-0005	EA 2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	256.13		24.49
05 58 23 00-0006	EA 3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	292.00		24.49
05 58 23 00-0007	EA 4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	330.03		24.49
05 58 23 00-0008	EA 5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	366.10		24.49
05 58 23 00-0009	EA 6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	412.87		24.49
05 58 23 00-0010	EA 7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	444.73		24.49
05 58 23 00-0011	EA 8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	494.06		24.49
05 58 23 00-0012	EA 9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	526.43		24.49
05 58 23 00-0013	EA 10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail.....	549.56		24.49
05 58 23 00-0014	Posts For 2-Rib Guard Rails (05 58 23 00-0002) Note: Includes drilling, surface mounting plate and anchors.			
05 58 23 00-0015	EA 12" Height, Single Rail Post For 2-Rib Guard Rails.....	439.13		51.01
05 58 23 00-0016	EA 42" Height, Triple Rail Post For 2-Rib Guard Rails.....	571.20		51.01
05 58 23 00-0017	3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001) Note: Steel King Steel Guard.			



Metals		05	05
Metal Fabrications		05 50	
Formed Metal Fabrications		05 58	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
05 58 23 00-0018		Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)			
Note: Excludes posts. Includes fasteners.					
05 58 23 00-0019	EA	1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	241.02		24.49
05 58 23 00-0020	EA	2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	266.30		24.49
05 58 23 00-0021	EA	3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	297.86		24.49
05 58 23 00-0022	EA	4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	327.35		24.49
05 58 23 00-0023	EA	5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	361.48		24.49
05 58 23 00-0024	EA	6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	377.92		24.49
05 58 23 00-0025	EA	7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	417.49		24.49
05 58 23 00-0026	EA	8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	450.89		24.49
05 58 23 00-0027	EA	9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	486.35		24.49
05 58 23 00-0028	EA	10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	522.32		24.49
05 58 23 00-0029		Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)			
Note: Excludes posts. Includes fasteners and lift-out mounting plate.					
05 58 23 00-0030	EA	1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	354.80		24.49
05 58 23 00-0031	EA	2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	382.55		24.49
05 58 23 00-0032	EA	3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	411.32		24.49
05 58 23 00-0033	EA	4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	444.73		24.49
05 58 23 00-0034	EA	5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	478.13		24.49
05 58 23 00-0035	EA	6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	505.37		24.49
05 58 23 00-0036	EA	7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	536.71		24.49
05 58 23 00-0037	EA	8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	572.17		24.49
05 58 23 00-0038	EA	9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	610.20		24.49
05 58 23 00-0039	EA	10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	643.60		24.49
05 58 23 00-0040		Posts For 3-Rib Guard Rails (05 58 23 00-0017)			
Note: Includes drilling, surface mounting plate and anchors.					
05 58 23 00-0041	EA	18" Height, Single Rail Post For 3-Rib Guard Rails	386.51		51.01
05 58 23 00-0042	EA	42" Height, Double Rail Post For 3-Rib Guard Rails.....	493.60		51.01
05 58 23 00-0043		All-Welded, Protective Guards (05 58 23)			
Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.					
05 58 23 00-0044		All-Welded, Protective Guards (05 58 23 00-0043)			
05 58 23 00-0045	EA	36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	504.49		68.02
05 58 23 00-0046	EA	48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	530.18		68.02
05 58 23 00-0047	EA	36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	545.09		68.02
05 58 23 00-0048	EA	48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	567.18		68.02
05 58 23 00-0049	EA	36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	562.04		68.02
05 58 23 00-0050	EA	48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	589.28		68.02
05 58 23 00-0051	EA	36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	596.99		68.02
05 58 23 00-0052	EA	48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	605.72		68.02
05 58 23 00-0053	EA	48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	647.35		68.02
05 58 23 00-0054		Corner Style, All-Welded, Protective Guards (05 58 23 00-0043)			
05 58 23 00-0055	EA	24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	663.79		68.02
05 58 23 00-0056	EA	30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	694.63		68.02
05 58 23 00-0057	EA	24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	707.47		68.02
05 58 23 00-0058	EA	30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	770.68		68.02
05 58 23 00-0059		Warehouse Safety Bollards (05 58 23)			
Note: Includes painted finish, drilling, surface mounting plate and anchors.					
05 58 23 00-0060	EA	24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	313.81		51.01
05 58 23 00-0061	EA	36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	364.58		51.01
05 58 23 00-0062	EA	42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	418.33		51.01
05 58 23 00-0063	EA	36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	433.03		51.01
05 58 23 00-0064	EA	42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	466.95		51.01
05 59		Metal Specialties (05 50)			
05 59 65		Metal Chain (05 59)			
05 59 65 00-0001		Alloy Steel Chain, Self Colored, Cut Length (05 59 65)			
Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.					
05 59 65 00-0002	LF	3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	6.44		1.08
		For Plastic Dipped, Add	0.64		
05 59 65 00-0003	LF	1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	8.40		1.44
		For Plastic Dipped, Add	0.83		
05 59 65 00-0004	LF	3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	13.20		2.87
		For Plastic Dipped, Add	1.12		
05 59 65 00-0005	LF	1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	21.14		4.85
		For Plastic Dipped, Add	1.72		
05 59 65 00-0006	LF	5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	35.69		8.19
		For Plastic Dipped, Add	2.90		

05 Metals**05 50 Metal Fabrications****05 59 Metal Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 65 00-0007	LF		3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	50.09	11.49
			<i>For Plastic Dipped, Add</i>	4.07	
05 59 65 00-0008	LF		7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	68.46	14.37
			<i>For Plastic Dipped, Add</i>	5.96	
05 59 65 00-0009	LF		1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	99.23	19.15
			<i>For Plastic Dipped, Add</i>	9.14	
05 59 65 00-0010	LF		1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	161.73	28.73
			<i>For Plastic Dipped, Add</i>	15.64	
05 59 65 00-0011			316L Stainless Steel Chain, Cut Length (05 59 65)		
05 59 65 00-0012	CLF		1/8" Diameter 316L Stainless Steel Chain, Cut Length.....	2,815.24	95.74
05 59 65 00-0013	CLF		3/16" Diameter 316L Stainless Steel Chain, Cut Length.....	3,464.62	114.94
05 59 65 00-0014	CLF		9/32" Diameter 316L Stainless Steel Chain, Cut Length.....	4,343.05	143.68
05 59 65 00-0015	CLF		5/16" Diameter 316L Stainless Steel Chain, Cut Length.....	5,867.48	191.60
05 59 65 00-0016	CLF		3/8" Diameter 316L Stainless Steel Chain, Cut Length.....	6,668.41	287.34
05 59 65 00-0017	CLF		1/2" Diameter 316L Stainless Steel Chain, Cut Length.....	10,059.47	478.94

END OF SECTION 05



Thermal And Moisture Protection		07
Dampproofing and Waterproofing		07 10
Dampproofing		07 11

07

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

07 Thermal And Moisture Protection

07 10 Dampproofing and Waterproofing⁽⁰⁷⁾

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost (where listed). Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of hydrostatic pressure.

07 11 Dampproofing^(07 10)

07 11 13 Bituminous Dampproofing^(07 11)

07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray^(07 11 13)

07 11 13 00-0002	CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray	207.89
07 11 13 00-0003	CSF 2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing	321.94

07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On^(07 11 13)

07 11 13 00-0005	CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On	355.77
07 11 13 00-0006	CSF Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing	549.36

07 11 13 00-0007 Asphaltic Paint Dampproofing^(07 11 13)

07 11 13 00-0008	CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On	167.82
07 11 13 00-0009	CSF 2 Coats, Brushed On, Asphaltic Paint Dampproofing	309.95

07 11 19 Sheet Dampproofing^(07 11)

07 11 19 00-0001 Neoprene^(07 11 19)

07 11 19 00-0002	SF 1/16" Patch Neoprene Roof (5 To 20 SF)	45.17

07 13 Sheet Waterproofing^(07 10)

07 13 13 Bituminous Sheet Waterproofing^(07 13)

07 13 13 00-0001 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped^(07 13 13)

07 13 13 00-0002	CSF 1 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	377.27	137.08
	For 30 Lb. Felt, Add	77.33	
	For Application To Horizontal Surfaces, Deduct	-41.13	
07 13 13 00-0003	CSF 2 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	470.67	154.22
	For 30 Lb. Felt, Add	121.68	
	For Application To Horizontal Surfaces, Deduct	-46.26	
07 13 13 00-0004	CSF 3 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	564.07	171.36
	For 30 Lb. Felt, Add	166.03	
	For Application To Horizontal Surfaces, Deduct	-51.41	
07 13 13 00-0005	CSF 4 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	657.48	188.49
	For 30 Lb. Felt, Add	210.38	
	For Application To Horizontal Surfaces, Deduct	-56.55	
07 13 13 00-0006	CSF 5 Ply, 15 Lb. Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped	750.89	205.63
	For 30 Lb. Felt, Add	254.74	
	For Application To Horizontal Surfaces, Deduct	-61.69	

07 13 13 00-0007 Asphalt Coated Protective Board^(07 13 13)

07 13 13 00-0008	CSF 1/8" Asphalt Coated Protective Board	332.86	137.28
	For Application To Horizontal Surfaces, Deduct	-45.79	
07 13 13 00-0009	CSF 1/4" Asphalt Coated Protective Board	421.21	142.56
	For Application To Horizontal Surfaces, Deduct	-47.52	
07 13 13 00-0010	CSF 3/8" Asphalt Coated Protective Board	527.53	148.55
	For Application To Horizontal Surfaces, Deduct	-49.50	
07 13 13 00-0011	CSF 1/2" Asphalt Coated Protective Board	583.33	154.54
	For Application To Horizontal Surfaces, Deduct	-51.52	

07 13 53 Elastomeric Sheet Waterproofing^(07 13)

07 13 53 00-0001 Rubberized Membrane Sheet^(07 13 53)

07 13 53 00-0002	SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface	8.76	1.43
	For Floor Surfaces, Deduct	-1.38	

07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM)^(07 13 53)

07 13 53 00-0004	CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	552.83	200.18
	For Application To Horizontal Surfaces, Deduct	-60.04	
07 13 53 00-0005	CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane	623.24	200.18
	For Application To Horizontal Surfaces, Deduct	-60.04	

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 13 Sheet Waterproofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0006			Butyl Sheet Waterproofing (07 13 53)		
07 13 53 00-0007	CSF		1/32" Butyl Sheet Waterproofing.....	113.39	50.04
			For Joint Taping, Add	17.20	
			For Each Additional Ply, Add	84.39	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0008	CSF		1/16" Butyl Sheet Waterproofing.....	133.52	50.04
			For Joint Taping, Add	18.21	
			For Each Additional Ply, Add	98.48	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0009			Butyl With Nylon (07 13 53)		
07 13 53 00-0010	CSF		1/32" Butyl Elastomeric Waterproofing With Nylon	124.90	50.04
			For Joint Taping, Add	17.78	
			For Each Additional Ply, Add	92.45	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0011	CSF		1/16" Butyl Elastomeric Waterproofing With Nylon	137.84	50.04
			For Joint Taping, Add	18.43	
			For Each Additional Ply, Add	101.50	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0012			Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013	CSF		1/32" Neoprene Sheet Waterproofing	191.09	50.04
			For Joint Taping, Add	21.09	
			For Each Additional Ply, Add	138.78	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0014	CSF		1/16" Neoprene Sheet Waterproofing	276.75	50.04
			For Joint Taping, Add	25.37	
			For Each Additional Ply, Add	198.74	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0015			Neoprene With Nylon (07 13 53)		
07 13 53 00-0016	CSF		1/32" Neoprene Elastomeric Waterproofing With Nylon	200.03	50.04
			For Joint Taping, Add	21.54	
			For Each Additional Ply, Add	145.04	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0017	CSF		1/16" Neoprene Elastomeric Waterproofing With Nylon	291.03	50.04
			For Joint Taping, Add	26.09	
			For Each Additional Ply, Add	208.74	
			For Application To Horizontal Surfaces, Deduct	-7.52	
07 13 53 00-0018			Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019	CSF		4 Mil Polyethylene Vapor Barrier	44.22	16.59
			For Joint Taping, Add	10.65	
			For Each Additional Ply, Add	34.62	
			For Application To Horizontal Surfaces, Deduct	-5.51	
07 13 53 00-0020	CSF		6 Mil Polyethylene Vapor Barrier	45.81	16.59
			For Joint Taping, Add	10.73	
			For Each Additional Ply, Add	35.74	
			For Application To Horizontal Surfaces, Deduct	-5.51	
07 13 53 00-0021	CSF		10 Mil Polyethylene Vapor Barrier	72.90	16.59
			For Joint Taping, Add	12.09	
			For Each Additional Ply, Add	54.70	
			For Application To Horizontal Surfaces, Deduct	-5.51	
07 13 53 00-0022	CSF		60 Mil Polyethylene Vapor Barrier With Bentonite	152.24	16.59
			Note: Includes seam tape, liquid mastic, anchors and termination bar.		
			For Each Additional Ply, Add	110.65	
			For Application To Horizontal Surfaces, Deduct	-6.12	
07 13 53 00-0023			Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024	CSF		10 Mil Polyvinyl Chloride (PVC) Vapor Barrier	60.26	18.36
			For Joint Taping, Add	11.45	
			For Each Additional Ply, Add	45.85	
			For Application To Horizontal Surfaces, Deduct	-5.51	
07 13 53 00-0025	CSF		20 Mil Polyvinyl Chloride (PVC) Vapor Barrier	78.80	19.03
			For Joint Taping, Add	12.70	
			For Each Additional Ply, Add	58.97	
			For Application To Horizontal Surfaces, Deduct	-5.72	
07 13 53 00-0026	CSF		30 Mil Polyvinyl Chloride (PVC) Vapor Barrier	103.69	19.72
			For Joint Taping, Add	14.25	
			For Each Additional Ply, Add	76.53	
			For Application To Horizontal Surfaces, Deduct	-5.91	
07 13 53 00-0027			Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028	CSF		4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4)	52.75	17.00



Thermal And Moisture Protection			07
Dampproofing and Waterproofing			07 10
Fluid-Applied Waterproofing			07 14

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 14 Fluid-Applied Waterproofing (07 10)**07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing** (07 14)**07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating** (07 14 13)

07 14 13 00-0002	SF	90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface	2.80		
Note: Includes primer.					
For Application To Horizontal Surfaces, Deduct			-0.26		
For Reinforcing Fabric, Add			0.62		
07 14 13 00-0003	SF	125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	3.26		
Note: Includes primer.					
For Application To Horizontal Surfaces, Deduct			-0.27		
For Reinforcing Fabric, Add			0.62		

07 14 16 Cold Fluid-Applied Waterproofing (07 14)**07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane** (07 14 16)

07 14 16 00-0002	SF	60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	4.87		
For Application To Horizontal Surfaces, Deduct			-0.60		
07 14 16 00-0003	SF	90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	5.49		
For Application To Horizontal Surfaces, Deduct			-0.63		
07 14 16 00-0004	SF	120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing	6.17		
For Application To Horizontal Surfaces, Deduct			-0.67		

07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)

07 14 16 00-0006	SF	15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer	3.53		

07 14 16 00-0007 Copolymer Compound (07 14 16)

07 14 16 00-0008	SF	32 Mil, Fluid Elastomeric Copolymer Compound For Slabs.....	5.54		

07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)

07 14 16 00-0010	CSF	1/8" Fiberglass Reinforced, Fluid Applied Neoprene	651.30		
For Application To Horizontal Surfaces, Deduct			-72.92		
07 14 16 00-0011	CSF	50 Mil, 4 Coats, Fluid Applied Neoprene	1,224.66		
For Application To Horizontal Surfaces, Deduct			-143.05		
07 14 16 00-0012	CSF	90 Mil, 4 Coats, Fluid Applied Neoprene	1,971.73		
For Application To Horizontal Surfaces, Deduct			-214.47		

07 16 Cementitious and Reactive Waterproofing (07 10)**07 16 13 Polymer Modified Cement Waterproofing** (07 16)

07 16 13 00-0001	SF	Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	5.05		
Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.					

07 16 16 Crystalline Waterproofing (07 16)

07 16 16 00-0001	SF	Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	6.12		

07 16 19 Metal Oxide Waterproofing (07 16)**07 16 19 00-0001 Metallic Oxide Waterproofing** (07 16 19)

Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat.

07 16 19 00-0002	CSF	Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	543.79		
For Application To Horizontal Surfaces, Deduct			-68.66		

07 19 Water Repellents (07 10)**07 19 13 Acrylic Sealer** (07 19)

Note: Per coat.

07 19 13 00-0001	SF	Spray On Concrete, Acrylic Sealer	3.09		
07 19 13 00-0002	SF	Spray On Concrete Block/Brick, Acrylic Sealer	3.68		
07 19 13 00-0003	SF	Spray On Stone, Acrylic Sealer	4.04		

07 19 16 Silane Water Repellents (07 19)**07 19 16 00-0001 Silane Concrete Sealer** (07 19 16)

07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	0.80		
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	1.17		

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing****07 19 Water Repellents**

MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
07 19 16 00-0004		Silane/Siloxane Concrete Sealer ^(07 19 16)				
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40) Note: 40% silane, alcohol based.		1.36		
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40) Note: 40% silane, alcohol based.		1.99		
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB) Note: 200 SF/GAL		0.52		
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB) Note: 200 SF/GAL		0.77		

END OF SECTION 07



	Finishes	09	
	Maintenance of Finishes	09 01	
	Maintenance of Painting and Coating	09 01 90	

09

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

09 Finishes

09 01 Maintenance of Finishes (09)

09 01 90 Maintenance of Painting and Coating (09 01)

09 01 90 52 Maintenance Repainting (09 01 90)

09 01 90 52-0001 Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)

Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Media blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment and collection.

09 01 90 52-0002 Concrete, Stone And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)

09 01 90 52-0003	SF	Trisodium Phosphate (TSP), Clean Concrete, Stone Or Masonry Surfaces, Surface Preparation	0.61
		For Up To 100, Add	0.44
		For >100 To 250, Add	0.21
		For >250 To 500, Add	0.09
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.06
		For >15,000 To 30,000, Deduct	-0.09
		For >30,000, Deduct	-0.12
09 01 90 52-0004	SF	Calcimine Removal/Washing, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.60
		For Up To 100, Add	1.07
		For >100 To 250, Add	0.28
		For >250 To 500, Add	0.14
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.06
		For >15,000 To 30,000, Deduct	-0.09
		For >30,000, Deduct	-0.12
09 01 90 52-0005	SF	Chemical Clean, Brush And Wash, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.96
		For Up To 100, Add	1.65
		For >100 To 250, Add	0.44
		For >250 To 500, Add	0.21
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.09
		For >15,000 To 30,000, Deduct	-0.14
		For >30,000, Deduct	-0.18
09 01 90 52-0006	SF	Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation	1.50
		For Up To 100, Add	3.00
		For >100 To 250, Add	0.75
		For >250 To 500, Add	0.38
		For >5,000 To 10,000, Deduct	-0.08
		For >10,000 To 15,000, Deduct	-0.15
		For >15,000 To 30,000, Deduct	-0.23
		For >30,000, Deduct	-0.30
09 01 90 52-0007	SF	Steam Clean, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.87
		For Up To 100, Add	1.50
		For >100 To 250, Add	0.40
		For >250 To 500, Add	0.19
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.08
		For >15,000 To 30,000, Deduct	-0.13
		For >30,000, Deduct	-0.17
09 01 90 52-0008	SF	2,000 To 5,000 PSI Pressure Wash, Concrete, Stone And Masonry Surfaces, Surface Preparation	0.56
		For Up To 100, Add	0.91
		For >100 To 250, Add	0.25
		For >250 To 500, Add	0.12
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.08
		For >30,000, Deduct	-0.11
09 01 90 52-0009	SF	10,000 To 12,000 PSI Water Blast, Concrete, Stone And Masonry Surfaces, Surface Preparation	1.57
		For Up To 100, Add	2.83
		For >100 To 250, Add	0.73
		For >250 To 500, Add	0.36
		For >5,000 To 10,000, Deduct	-0.07
		For >10,000 To 15,000, Deduct	-0.15
		For >15,000 To 30,000, Deduct	-0.23
		For >30,000, Deduct	-0.30
09 01 90 52-0010	SF	30,000 To 40,000 PSI Water Blast, Concrete, Stone And Masonry Surfaces, Surface Preparation	2.57
		For Up To 100, Add	4.83
		For >100 To 250, Add	1.23
		For >250 To 500, Add	0.61
		For >5,000 To 10,000, Deduct	-0.12
		For >10,000 To 15,000, Deduct	-0.25
		For >15,000 To 30,000, Deduct	-0.38
		For >30,000, Deduct	-0.50

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0011	SF		Abrasive Glass Media Blasting, Concrete And Masonry Surfaces, Surface Preparation 4.01 Note: 3 Lb. of sand or glass abrasive media material per SF For 4.5 Lb. Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add 2.33 For 6 Lb. Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add 4.82 For 9 Lb. Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add 8.02 For Up To 100, Add 6.88 For >100 To 250, Add 1.82 For >250 To 500, Add 0.89 For >5,000 To 10,000, Deduct -0.19 For >10,000 To 15,000, Deduct -0.37 For >15,000 To 30,000, Deduct -0.58 For >30,000, Deduct -0.76		
09 01 90 52-0012 Metal Surfaces, Surface Preparation (09 01 90 52-0001)					
09 01 90 52-0013	SF		Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation 0.58 For Up To 100, Add 0.42 For >100 To 250, Add 0.20 For >250 To 500, Add 0.08 For >5,000 To 10,000, Deduct -0.03 For >10,000 To 15,000, Deduct -0.06 For >15,000 To 30,000, Deduct -0.09 For >30,000, Deduct -0.12		
09 01 90 52-0014	SF		Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation 0.96 For Up To 100, Add 0.59 For >100 To 250, Add 0.27 For >250 To 500, Add 0.12 For >5,000 To 10,000, Deduct -0.04 For >10,000 To 15,000, Deduct -0.09 For >15,000 To 30,000, Deduct -0.14 For >30,000, Deduct -0.18		
09 01 90 52-0015	SF		Hand Scraping And Sanding, Metal Surfaces, Surface Preparation 1.21 For Up To 100, Add 0.91 For >100 To 250, Add 0.42 For >250 To 500, Add 0.18 For >5,000 To 10,000, Deduct -0.06 For >10,000 To 15,000, Deduct -0.12 For >15,000 To 30,000, Deduct -0.18 For >30,000, Deduct -0.24		
09 01 90 52-0016	SF		2,000 To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation 0.53 For Up To 100, Add 0.32 For >100 To 250, Add 0.15 For >250 To 500, Add 0.06 For >5,000 To 10,000, Deduct -0.02 For >10,000 To 15,000, Deduct -0.05 For >15,000 To 30,000, Deduct -0.08 For >30,000, Deduct -0.10		
09 01 90 52-0017	SF		Power Tool Cleaning, Metal Surfaces, Surface Preparation 1.53 For Up To 100, Add 1.15 For >100 To 250, Add 0.54 For >250 To 500, Add 0.23 For >5,000 To 10,000, Deduct -0.08 For >10,000 To 15,000, Deduct -0.15 For >15,000 To 30,000, Deduct -0.23 For >30,000, Deduct -0.31		
09 01 90 52-0018	SF		Steam Cleaning, Metal Surfaces, Surface Preparation 0.55 For Up To 100, Add 0.29 For >100 To 250, Add 0.14 For >250 To 500, Add 0.06 For >5,000 To 10,000, Deduct -0.02 For >10,000 To 15,000, Deduct -0.05 For >15,000 To 30,000, Deduct -0.08 For >30,000, Deduct -0.10		
09 01 90 52-0019	SF		Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation 1.18 For Up To 100, Add 0.73 For >100 To 250, Add 0.34 For >250 To 500, Add 0.15 For >5,000 To 10,000, Deduct -0.05 For >10,000 To 15,000, Deduct -0.11 For >15,000 To 30,000, Deduct -0.17 For >30,000, Deduct -0.23		
09 01 90 52-0020	SF		Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation 1.62 For Up To 100, Add 0.98 For >100 To 250, Add 0.46 For >250 To 500, Add 0.20 For >5,000 To 10,000, Deduct -0.07 For >10,000 To 15,000, Deduct -0.15 For >15,000 To 30,000, Deduct -0.23 For >30,000, Deduct -0.31		
09 01 90 52-0021	SF		Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation 2.37 For Up To 100, Add 1.46 For >100 To 250, Add 0.68 For >250 To 500, Add 0.29 For >5,000 To 10,000, Deduct -0.11 For >10,000 To 15,000, Deduct -0.22 For >15,000 To 30,000, Deduct -0.34 For >30,000, Deduct -0.45		



		Finishes	09
		Maintenance of Finishes	09 01
		Maintenance of Painting and Coating	09 01 90

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022	SF		Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	3.96	
			For Up To 100, Add	2.43	
			For >100 To 250, Add	1.13	
			For >250 To 500, Add	0.49	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 15,000, Deduct	-0.37	
			For >15,000 To 30,000, Deduct	-0.57	
			For >30,000, Deduct	-0.76	
09 01 90 52-0023	SF		Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.02	
			For Up To 100, Add	1.82	
			For >100 To 250, Add	0.85	
			For >250 To 500, Add	0.36	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 15,000, Deduct	-0.28	
			For >15,000 To 30,000, Deduct	-0.44	
			For >30,000, Deduct	-0.57	
09 01 90 52-0024	SF		Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.74	
			For Up To 100, Add	2.24	
			For >100 To 250, Add	1.05	
			For >250 To 500, Add	0.45	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 15,000, Deduct	-0.34	
			For >15,000 To 30,000, Deduct	-0.54	
			For >30,000, Deduct	-0.71	
09 01 90 52-0025	SF		Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	4.85	
			For Up To 100, Add	2.92	
			For >100 To 250, Add	1.36	
			For >250 To 500, Add	0.58	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 15,000, Deduct	-0.45	
			For >15,000 To 30,000, Deduct	-0.70	
			For >30,000, Deduct	-0.92	
09 01 90 52-0026	SF		Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	6.05	
			For Up To 100, Add	3.64	
			For >100 To 250, Add	1.70	
			For >250 To 500, Add	0.73	
			For >5,000 To 10,000, Deduct	-0.28	
			For >10,000 To 15,000, Deduct	-0.56	
			For >15,000 To 30,000, Deduct	-0.87	
			For >30,000, Deduct	-1.15	
09 01 90 52-0027			Tile Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0028	SF		Trisodium Phosphate (TSP), Clean Tile Surfaces, Surface Preparation	0.53	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 01 90 52-0029	CSF		Chemical Alkaline Cleaner, Brush And Wash Tile Surfaces, Surface Preparation	53.06	
			For Up To 100, Add	39.52	
			For >100 To 250, Add	18.44	
			For >250 To 500, Add	7.90	
			For >5,000 To 10,000, Deduct	-2.65	
			For >10,000 To 15,000, Deduct	-5.29	
			For >15,000 To 30,000, Deduct	-7.95	
			For >30,000, Deduct	-10.59	
09 01 90 52-0030	SF		2,000 To 5,000 PSI, Pressure Wash Tile Surfaces, Surface Preparation	0.39	
			For Up To 100, Add	0.24	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.04	
			For >15,000 To 30,000, Deduct	-0.06	
			For >30,000, Deduct	-0.07	
09 01 90 52-0031			Wood Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0032	SF		Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.55	
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 01 90 52-0033	SF		Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation	0.80	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.15	

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0034	SF		Hand Scrape Wood Surfaces, Surface Preparation.....	0.93	
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.19	
09 01 90 52-0035	SF		Steam Clean Wood Surfaces, Surface Preparation	0.85	
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 01 90 52-0036	SF		2,000 To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation	0.58	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 01 90 52-0037	SF		Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation	1.10	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.11	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.22	
09 01 90 52-0038	SF		Sanding Wood Trim Surfaces, Surface Preparation	1.48	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 15,000, Deduct	-0.14	
			For >15,000 To 30,000, Deduct	-0.22	
			For >30,000, Deduct	-0.29	
09 01 90 52-0039	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening	1.80	
			For Up To 100, Add	1.28	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 15,000, Deduct	-0.18	
			For >15,000 To 30,000, Deduct	-0.27	
			For >30,000, Deduct	-0.36	
09 01 90 52-0040	SF		Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.97	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.09	
			For >15,000 To 30,000, Deduct	-0.14	
			For >30,000, Deduct	-0.19	
09 01 90 52-0041	SF		Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	1.13	
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.11	
			For >15,000 To 30,000, Deduct	-0.17	
			For >30,000, Deduct	-0.22	
09 01 90 52-0042			Vinyl Siding Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0043	SF		Trisodium Phosphate (TSP), Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.53	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.11	
09 01 90 52-0044	SF		Hand Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.84	
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.17	



Finishes		09
Maintenance of Finishes		09 01
Maintenance of Painting and Coating		09 01 90

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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 01 90 52-0045	SF 2,000 To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.48	
	For Up To 100, Add	0.27	
	For >100 To 250, Add	0.13	
	For >250 To 500, Add	0.05	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 15,000, Deduct	-0.04	
	For >15,000 To 30,000, Deduct	-0.07	
	For >30,000, Deduct	-0.09	
09 01 90 52-0046	SF Steam Clean, Vinyl Siding Surfaces, Surface Preparation	0.90	
	For Up To 100, Add	0.52	
	For >100 To 250, Add	0.24	
	For >250 To 500, Add	0.10	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 15,000, Deduct	-0.08	
	For >15,000 To 30,000, Deduct	-0.13	
	For >30,000, Deduct	-0.17	
09 01 90 52-0047	Plaster/Stucco Surfaces, Surface Preparation (09 01 90 52-0001)		
	Note: Based on total project quantity.		
09 01 90 52-0048	SF Trisodium Phosphate (TSP), Clean Plaster/Stucco Surfaces, Surface Preparation	0.61	
	For Up To 100, Add	0.44	
	For >100 To 250, Add	0.21	
	For >250 To 500, Add	0.09	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.06	
	For >15,000 To 30,000, Deduct	-0.09	
	For >30,000, Deduct	-0.12	
09 01 90 52-0049	SF 2,000 To 5,000 PSI Pressure Wash Plaster/Stucco Surfaces, Surface Preparation.....	0.63	
	For Up To 100, Add	0.37	
	For >100 To 250, Add	0.17	
	For >250 To 500, Add	0.07	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 15,000, Deduct	-0.06	
	For >15,000 To 30,000, Deduct	-0.09	
	For >30,000, Deduct	-0.12	
09 01 90 52-0050	Prep Work (09 01 90 52-0001)		
09 01 90 52-0051	SF Citrus Strip, Single Applications.....	1.44	
	Note: For removal of up to 40 mills each application (average 5 layers at 8 mills per layer) dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple applications may be necessary, refer to manufacturer recommendations		
09 01 90 91	Paint Restoration (09 01 90)		
09 01 90 91-0001	Paint Removal, Strip To Bare Wood (09 01 90 91)		
09 01 90 91-0002	SF Flat Surfaces, Paint Removal, Strip To Bare Wood	9.67	
09 01 90 91-0003	SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood	10.31	
09 90	Painting and Coating (09)		
	Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.		
09 91	Painting (09 90)		
09 91 13	Exterior Painting (09 91)		
	Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.		
09 91 13 00-0001	Paint Exterior Walls/Siding (09 91 13)		
09 91 13 00-0002	Paint Exterior Brick Walls (09 91 13 00-0001)		
09 91 13 00-0003	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Brick Walls.....	0.29	
	For Oil Based Paint, Add	0.02	
	For Work >15' To 20' Above Floor, Add	0.04	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.06	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.10	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.13	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.19	
	For >100 To 250, Add	0.09	
	For >250 To 500, Add	0.04	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.03	
	For >10,000 To 20,000, Deduct	-0.04	
	For >20,000, Deduct	-0.06	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0004	SF	1	Coat Filler, Brush Work, Paint Exterior Brick Walls.....	1.27	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.54	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0005	SF	1	Coat Paint, Brush Work, Paint Exterior Brick Walls	1.78	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.22	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.37	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.58	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.80	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.14	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	
09 91 13 00-0006	SF	2	Coats Paint, Brush Work, Paint Exterior Brick Walls.....	2.61	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.29	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.49	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.78	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.08	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.57	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.33	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.26	
			For >10,000 To 20,000, Deduct	-0.39	
			For >20,000, Deduct	-0.52	
09 91 13 00-0007	SF	1	Coat Filler, Brush/Roller Work, Paint Exterior Brick Walls	0.87	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0008	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Brick Walls	1.42	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.55	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Brick Walls	2.11	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.34	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.55	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.75	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.14	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.42	
09 91 13 00-0010	SF		1 Coat Filler, Sprayed, Paint Exterior Brick Walls	0.79	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.19	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.26	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0011	SF		1 Coat Paint, Sprayed, Paint Exterior Brick Walls	0.83	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.09	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.15	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.20	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.17	
09 91 13 00-0012	SF		2 Coats Paint, Sprayed, Paint Exterior Brick Walls	1.72	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.37	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.51	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.26	
			For >20,000, Deduct	-0.34	

09 91 13 00-0013 Paint Exterior Concrete Walls (09 91 13 00-0001)

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0014	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Walls	0.19	
			For Oil Based Paint, Add	0.01	
			For Epoxy Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.09	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.12	
			For >100 To 250, Add	0.06	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0015	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	1.06	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.66	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0016	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls	1.15	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.75	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0017	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Walls	2.17	
			For Oil Based Paint, Add	0.13	
			For Epoxy Paint, Add	0.22	
			For Work >15' To 20' Above Floor, Add	0.27	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.45	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.72	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.99	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.43	



		Finishes	09	09
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0018	SF	1	Coat Filler, Brush/Roller Work, Paint Exterior Concrete Walls.....	0.87	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0019	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Concrete Walls	0.96	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.43	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0020	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	1.65	
			For Oil Based Paint, Add	0.10	
			For Epoxy Paint, Add	0.19	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.51	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.70	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0021	SF	1	Coat Filler, Sprayed, Paint Exterior Concrete Walls	0.71	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.11	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.17	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.24	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0022	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Walls	0.64	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.10	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.16	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.23	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.34	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0023	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Walls	1.12	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.19	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.17	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.36	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0024			Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0025			Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0024)		
09 91 13 00-0026	LF		1 Coat Epoxy Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.28	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.17	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.04	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.04	
			For >20,000, Deduct	-0.06	
09 91 13 00-0027	SF		1 Coat Epoxy Filler, Brush Work, Paint Exterior Concrete Block Walls.....	1.51	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.44	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.60	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.30	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0028	SF 1 Coat Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	1.73	
	For Work >15' To 20' Above Floor, Add	0.20	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.33	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.52	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.72	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.05	
	For >100 To 250, Add	0.50	
	For >250 To 500, Add	0.22	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.17	
	For >10,000 To 20,000, Deduct	-0.26	
	For >20,000, Deduct	-0.35	
09 91 13 00-0029	SF 2 Coats Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls	3.03	
	For Work >15' To 20' Above Floor, Add	0.33	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.55	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.88	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.21	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.77	
	For >100 To 250, Add	0.85	
	For >250 To 500, Add	0.37	
	For >2,500 To 5,000, Deduct	-0.15	
	For >5,000 To 10,000, Deduct	-0.30	
	For >10,000 To 20,000, Deduct	-0.45	
	For >20,000, Deduct	-0.61	
09 91 13 00-0030	SF 1 Coat Epoxy Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls	1.25	
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.21	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.33	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.46	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.69	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.19	
	For >20,000, Deduct	-0.25	
09 91 13 00-0031	SF 1 Coat Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.38	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.24	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.38	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.53	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.78	
	For >100 To 250, Add	0.38	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.21	
	For >20,000, Deduct	-0.28	
09 91 13 00-0032	SF 2 Coats Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	2.46	
	For Work >15' To 20' Above Floor, Add	0.24	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.41	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.65	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.90	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.35	
	For >100 To 250, Add	0.65	
	For >250 To 500, Add	0.29	
	For >2,500 To 5,000, Deduct	-0.12	
	For >5,000 To 10,000, Deduct	-0.25	
	For >10,000 To 20,000, Deduct	-0.37	
	For >20,000, Deduct	-0.49	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0033	SF		1 Coat Epoxy Filler, Sprayed, Paint Exterior Concrete Block Walls.....	0.97	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.18	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.25	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.42	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 13 00-0034	SF		1 Coat Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls	1.06	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.30	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0035	SF		2 Coats Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	2.06	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.55	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.41	
09 91 13 00-0036			Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0024).....	0.27	
09 91 13 00-0037	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls.....	0.27	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.17	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.04	
			For >20,000, Deduct	-0.05	
09 91 13 00-0038	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Block Walls	1.38	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.44	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.61	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0039	SF	1	Coat Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.63	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.33	
09 91 13 00-0040	SF	2	Coats Paint, Brush Work, Paint Exterior Concrete Block Walls.....	2.98	
			For Oil Based Paint, Add	0.19	
			For Work >15' To 20' Above Floor, Add	0.34	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.56	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.90	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.23	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.79	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.30	
			For >10,000 To 20,000, Deduct	-0.45	
			For >20,000, Deduct	-0.60	
09 91 13 00-0041	SF	1	Coat Texture Paint, Brush Work, Paint Exterior Concrete Block Walls.....	1.82	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.77	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	
09 91 13 00-0042	SF	1	Coat Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.09	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.22	
09 91 13 00-0043	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.40	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.83	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0044	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	2.41	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.42	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.67	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.92	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.36	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.48	
09 91 13 00-0045	SF		1 Coat Texture Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.57	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.46	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.63	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.93	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0046	SF		1 Coat Filler, Sprayed, Paint Exterior Concrete Block Walls.....	0.98	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0047	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Block Walls	1.04	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.23	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0048	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.59	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.57	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	



Finishes		09
Painting and Coating		09 90
Painting		09 91

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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0049	SF 1 Coat Texture Paint, Sprayed, Paint Exterior Concrete Block Walls	1.33	
	For Oil Based Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.20	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.31	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.43	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.67	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.14	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.27	
09 91 13 00-0050	Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0051	Paint Exterior Galvanized Walls (09 91 13 00-0050)		
	Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0052	SF 1 Coat Primer, Brush Work, Paint Exterior Galvanized Wall Surfaces.....	1.35	
	For Work >15' To 20' Above Floor, Add	0.15	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.25	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.39	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.54	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.79	
	For >100 To 250, Add	0.38	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.27	
09 91 13 00-0053	SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces	1.49	
	For Work >15' To 20' Above Floor, Add	0.17	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.28	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.45	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.62	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.90	
	For >100 To 250, Add	0.43	
	For >250 To 500, Add	0.19	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000 To 20,000, Deduct	-0.22	
	For >20,000, Deduct	-0.30	
09 91 13 00-0054	SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces	2.71	
	For Work >15' To 20' Above Floor, Add	0.29	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.49	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.78	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.08	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.58	
	For >100 To 250, Add	0.76	
	For >250 To 500, Add	0.33	
	For >2,500 To 5,000, Deduct	-0.14	
	For >5,000 To 10,000, Deduct	-0.27	
	For >10,000 To 20,000, Deduct	-0.41	
	For >20,000, Deduct	-0.54	
09 91 13 00-0055	SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Walls.....	1.01	
	For Work >15' To 20' Above Floor, Add	0.11	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.18	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.28	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.39	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.57	
	For >100 To 250, Add	0.28	
	For >250 To 500, Add	0.12	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.20	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0056	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	1.16	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0057	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Walls	2.19	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.39	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.62	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.85	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 13 00-0058	SF	1	Coat Primer, Sprayed, Paint Exterior Galvanized Walls	0.81	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.10	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.15	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.21	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0059	SF	1	Coat Paint, Sprayed, Paint Exterior Galvanized Walls	1.04	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0060	SF	2	Coats Paint, Sprayed, Paint Exterior Galvanized Walls	1.77	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.50	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.35	

09 91 13 00-0061 Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0050)
Note: Alkyd enamel paint.



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0062	SF 1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.35	
	For Work >15' To 20' Above Floor, Add	0.15	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.25	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.39	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.54	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.79	
	For >100 To 250, Add	0.38	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.27	
09 91 13 00-0063	SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	1.49	
	For Work >15' To 20' Above Floor, Add	0.17	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.28	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.45	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.62	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.90	
	For >100 To 250, Add	0.43	
	For >250 To 500, Add	0.19	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.15	
	For >10,000 To 20,000, Deduct	-0.22	
	For >20,000, Deduct	-0.30	
09 91 13 00-0064	SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces	2.70	
	For Work >15' To 20' Above Floor, Add	0.29	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.49	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.78	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.08	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.58	
	For >100 To 250, Add	0.76	
	For >250 To 500, Add	0.33	
	For >2,500 To 5,000, Deduct	-0.14	
	For >5,000 To 10,000, Deduct	-0.27	
	For >10,000 To 20,000, Deduct	-0.41	
	For >20,000, Deduct	-0.54	
09 91 13 00-0065	SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	1.13	
	For Work >15' To 20' Above Floor, Add	0.11	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.18	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.28	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.39	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.59	
	For >100 To 250, Add	0.29	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.23	
09 91 13 00-0066	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	1.27	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.21	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.34	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.46	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.69	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.19	
	For >20,000, Deduct	-0.25	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0067	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls	2.41	
		For Work >15' To 20' Above Floor, Add	0.23	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.39	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.62	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.85	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	1.29	
		For >100 To 250, Add	0.63	
		For >250 To 500, Add	0.28	
		For >2,500 To 5,000, Deduct	-0.12	
		For >5,000 To 10,000, Deduct	-0.24	
		For >10,000 To 20,000, Deduct	-0.36	
		For >20,000, Deduct	-0.48	
09 91 13 00-0068	SF	1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	0.89	
		For Work >15' To 20' Above Floor, Add	0.07	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.12	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.18	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.25	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.41	
		For >100 To 250, Add	0.20	
		For >250 To 500, Add	0.09	
		For >2,500 To 5,000, Deduct	-0.04	
		For >5,000 To 10,000, Deduct	-0.09	
		For >10,000 To 20,000, Deduct	-0.13	
		For >20,000, Deduct	-0.18	
09 91 13 00-0069	SF	1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	1.04	
		For Work >15' To 20' Above Floor, Add	0.09	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.15	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.24	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.34	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.52	
		For >100 To 250, Add	0.26	
		For >250 To 500, Add	0.11	
		For >2,500 To 5,000, Deduct	-0.05	
		For >5,000 To 10,000, Deduct	-0.10	
		For >10,000 To 20,000, Deduct	-0.16	
		For >20,000, Deduct	-0.21	
09 91 13 00-0070	SF	2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls	1.77	
		For Work >15' To 20' Above Floor, Add	0.14	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.23	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.36	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.50	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.81	
		For >100 To 250, Add	0.40	
		For >250 To 500, Add	0.18	
		For >2,500 To 5,000, Deduct	-0.09	
		For >5,000 To 10,000, Deduct	-0.18	
		For >10,000 To 20,000, Deduct	-0.27	
		For >20,000, Deduct	-0.35	
09 91 13 00-0071		Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0050)		
09 91 13 00-0072	LF	1 Coat Primer, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	15.83	
		For Work >15' To 20' Above Floor, Add	2.05	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	3.42	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	5.48	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	7.53	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	10.59	
		For >100 To 250, Add	5.01	
		For >250 To 500, Add	2.16	
		For >2,500 To 5,000, Deduct	-0.79	
		For >5,000 To 10,000, Deduct	-1.58	
		For >10,000 To 20,000, Deduct	-2.37	
		For >20,000, Deduct	-3.17	



		Finishes	09	09
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
09 91 13 00-0073	LF 1 Coat Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack		17.62	
	For Work >15' To 20' Above Floor, Add		2.28	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		3.80	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		6.08	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		8.37	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		11.77	
	For >100 To 250, Add		5.56	
	For >250 To 500, Add		2.40	
	For >2,500 To 5,000, Deduct		-0.88	
	For >5,000 To 10,000, Deduct		-1.76	
	For >10,000 To 20,000, Deduct		-2.64	
	For >20,000, Deduct		-3.52	
09 91 13 00-0074	LF 2 Coats Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack		32.87	
	For Work >15' To 20' Above Floor, Add		4.29	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		7.15	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		11.43	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		15.72	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		22.08	
	For >100 To 250, Add		10.43	
	For >250 To 500, Add		4.50	
	For >2,500 To 5,000, Deduct		-1.64	
	For >5,000 To 10,000, Deduct		-3.29	
	For >10,000 To 20,000, Deduct		-4.93	
	For >20,000, Deduct		-6.57	
09 91 13 00-0075	Paint Exterior Corrugated Metal Walls (09 91 13 00-0050)			
09 91 13 00-0076	SF 1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Walls		0.99	
	For Work >15' To 20' Above Floor, Add		0.08	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.13	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.20	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.28	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.45	
	For >100 To 250, Add		0.22	
	For >250 To 500, Add		0.10	
	For >2,500 To 5,000, Deduct		-0.05	
	For >5,000 To 10,000, Deduct		-0.10	
	For >10,000 To 20,000, Deduct		-0.15	
	For >20,000, Deduct		-0.20	
09 91 13 00-0077	SF 1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Walls		1.30	
	For Work >15' To 20' Above Floor, Add		0.12	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.20	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.32	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.45	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.68	
	For >100 To 250, Add		0.33	
	For >250 To 500, Add		0.15	
	For >2,500 To 5,000, Deduct		-0.07	
	For >5,000 To 10,000, Deduct		-0.13	
	For >10,000 To 20,000, Deduct		-0.20	
	For >20,000, Deduct		-0.26	
09 91 13 00-0078	SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Walls		2.21	
	For Work >15' To 20' Above Floor, Add		0.18	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.31	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.49	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.67	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		1.06	
	For >100 To 250, Add		0.53	
	For >250 To 500, Add		0.23	
	For >2,500 To 5,000, Deduct		-0.11	
	For >5,000 To 10,000, Deduct		-0.22	
	For >10,000 To 20,000, Deduct		-0.33	
	For >20,000, Deduct		-0.44	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0079			Paint Exterior Stucco Walls (09 91 13 00-0001)		
09 91 13 00-0080	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Stucco Wall Surfaces.....	0.33	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.04	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.07	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.11	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.15	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.22	
			For >100 To 250, Add	0.10	
			For >250 To 500, Add	0.04	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.05	
			For >20,000, Deduct	-0.07	
09 91 13 00-0081	SF		1 Coat Primer, Brush Work, Paint Exterior Stucco Wall Surfaces.....	1.82	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.39	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.62	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.85	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.20	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.36	
09 91 13 00-0082	SF		1 Coat Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	2.00	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.42	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.67	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.92	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.31	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0083	SF		2 Coats Paint, Brush Work, Paint Exterior Stucco Wall Surfaces.....	3.73	
			For Oil Based Paint, Add	0.22	
			For Work >15' To 20' Above Floor, Add	0.46	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.77	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.23	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.41	
			For >100 To 250, Add	1.14	
			For >250 To 500, Add	0.49	
			For >2,500 To 5,000, Deduct	-0.19	
			For >5,000 To 10,000, Deduct	-0.37	
			For >10,000 To 20,000, Deduct	-0.56	
			For >20,000, Deduct	-0.75	
09 91 13 00-0084	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.39	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.44	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.61	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0085	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Stucco Walls	1.57	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.31	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0086	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Stucco Walls	2.90	
			For Oil Based Paint, Add	0.18	
			For Work >15' To 20' Above Floor, Add	0.34	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.56	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.90	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.24	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.79	
			For >100 To 250, Add	0.85	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000 To 20,000, Deduct	-0.44	
			For >20,000, Deduct	-0.58	
09 91 13 00-0087	SF	1	Coat Primer, Sprayed, Paint Exterior Stucco Walls	0.96	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0088	SF	1	Coat Paint, Sprayed, Paint Exterior Stucco Walls	1.19	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0089	SF	2	Coats Paint, Sprayed, Paint Exterior Stucco Walls	2.27	
			For Oil Based Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.38	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.61	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.84	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000, Deduct	-0.45	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 13 00-0090	Paint Exterior Wood Siding (09 91 13 00-0001)	
09 91 13 00-0091	Paint Exterior Smooth Wood Siding (09 91 13 00-0090)	
	Note: Includes tongue and groove, beveled, drop or board and batten siding.	
09 91 13 00-0092	LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Siding.....	0.27
	For Oil Based Paint, Add	0.02
	For Work >15' To 20' Above Floor, Add	0.03
	Note: Applied only to work area above 15' to 20'.	
	For Work >20' To 30' Above Floor, Add	0.06
	Note: Applied only to work area above 20'.	
	For Work >30' To 40' Above Floor, Add	0.09
	Note: Applied only to work area above 30' to 40'.	
	For Work >40' Above Floor, Add	0.12
	Note: Applied only to work area above 40'.	
	For Up To 100, Add	0.17
	For >100 To 250, Add	0.08
	For >250 To 500, Add	0.04
	For >2,500 To 5,000, Deduct	-0.01
	For >5,000 To 10,000, Deduct	-0.03
	For >10,000 To 20,000, Deduct	-0.04
	For >20,000, Deduct	-0.05
09 91 13 00-0093	SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding	1.54
	For Oil Based Paint, Add	0.09
	For Work >15' To 20' Above Floor, Add	0.18
	Note: Applied only to work area above 15' to 20'.	
	For Work >20' To 30' Above Floor, Add	0.31
	Note: Applied only to work area above 20'.	
	For Work >30' To 40' Above Floor, Add	0.49
	Note: Applied only to work area above 30' to 40'.	
	For Work >40' Above Floor, Add	0.67
	Note: Applied only to work area above 40'.	
	For Up To 100, Add	0.96
	For >100 To 250, Add	0.46
	For >250 To 500, Add	0.20
	For >2,500 To 5,000, Deduct	-0.08
	For >5,000 To 10,000, Deduct	-0.15
	For >10,000 To 20,000, Deduct	-0.23
	For >20,000, Deduct	-0.31
09 91 13 00-0094	SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Siding	1.62
	For Oil Based Paint, Add	0.10
	For Work >15' To 20' Above Floor, Add	0.20
	Note: Applied only to work area above 15' to 20'.	
	For Work >20' To 30' Above Floor, Add	0.34
	Note: Applied only to work area above 20'.	
	For Work >30' To 40' Above Floor, Add	0.54
	Note: Applied only to work area above 30' to 40'.	
	For Work >40' Above Floor, Add	0.74
	Note: Applied only to work area above 40'.	
	For Up To 100, Add	1.05
	For >100 To 250, Add	0.50
	For >250 To 500, Add	0.22
	For >2,500 To 5,000, Deduct	-0.08
	For >5,000 To 10,000, Deduct	-0.16
	For >10,000 To 20,000, Deduct	-0.24
	For >20,000, Deduct	-0.32
09 91 13 00-0095	SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	2.90
	For Oil Based Paint, Add	0.17
	For Work >15' To 20' Above Floor, Add	0.35
	Note: Applied only to work area above 15' to 20'.	
	For Work >20' To 30' Above Floor, Add	0.59
	Note: Applied only to work area above 20'.	
	For Work >30' To 40' Above Floor, Add	0.94
	Note: Applied only to work area above 30' to 40'.	
	For Work >40' Above Floor, Add	1.29
	Note: Applied only to work area above 40'.	
	For Up To 100, Add	1.85
	For >100 To 250, Add	0.88
	For >250 To 500, Add	0.38
	For >2,500 To 5,000, Deduct	-0.15
	For >5,000 To 10,000, Deduct	-0.29
	For >10,000 To 20,000, Deduct	-0.44
	For >20,000, Deduct	-0.58



		Finishes	09	09
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0096	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.21	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0097	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.33	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.56	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0098	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	2.51	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.47	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.74	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.02	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.49	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.31	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.38	
			For >20,000, Deduct	-0.50	
09 91 13 00-0099	SF	1	Coat Primer, Sprayed, Paint Exterior Smooth Wood Siding.....	0.93	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.31	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0100	SF	1	Coat Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.10	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.29	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.40	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
09 91 13 00-0101	SF 2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.79		
	For Oil Based Paint, Add	0.12		
	For Work >15' To 20' Above Floor, Add	0.17		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.28		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.44		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.61		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	0.93		
	For >100 To 250, Add	0.45		
	For >250 To 500, Add	0.20		
	For >2,500 To 5,000, Deduct	-0.09		
	For >5,000 To 10,000, Deduct	-0.18		
	For >10,000 To 20,000, Deduct	-0.27		
	For >20,000, Deduct	-0.36		
09 91 13 00-0102	Paint Exterior Rough Wood Siding (09 91 13 00-0090)			
	Note: Includes shingles, shakes or rough sawn siding.			
09 91 13 00-0103	SF 1 Coat Primer, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding	2.06		
	For Oil Based Paint, Add	0.12		
	For Work >15' To 20' Above Floor, Add	0.25		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.42		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.68		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.93		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	1.32		
	For >100 To 250, Add	0.63		
	For >250 To 500, Add	0.27		
	For >2,500 To 5,000, Deduct	-0.10		
	For >5,000 To 10,000, Deduct	-0.21		
	For >10,000 To 20,000, Deduct	-0.31		
	For >20,000, Deduct	-0.41		
09 91 13 00-0104	SF 1 Coat Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding	2.05		
	For Oil Based Paint, Add	0.12		
	For Work >15' To 20' Above Floor, Add	0.27		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.44		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.71		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.97		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	1.37		
	For >100 To 250, Add	0.65		
	For >250 To 500, Add	0.28		
	For >2,500 To 5,000, Deduct	-0.10		
	For >5,000 To 10,000, Deduct	-0.21		
	For >10,000 To 20,000, Deduct	-0.31		
	For >20,000, Deduct	-0.41		
09 91 13 00-0105	SF 2 Coats Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding	3.77		
	For Oil Based Paint, Add	0.22		
	For Work >15' To 20' Above Floor, Add	0.48		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.81		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	1.29		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	1.77		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	2.50		
	For >100 To 250, Add	1.18		
	For >250 To 500, Add	0.51		
	For >2,500 To 5,000, Deduct	-0.19		
	For >5,000 To 10,000, Deduct	-0.38		
	For >10,000 To 20,000, Deduct	-0.57		
	For >20,000, Deduct	-0.75		



Finishes		09	2
Painting and Coating		09 90	
Painting		09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0106	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.86	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.37	
09 91 13 00-0107	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.99	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.76	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0108	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	3.71	
			For Oil Based Paint, Add	0.25	
			For Work >15' To 20' Above Floor, Add	0.38	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.63	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.00	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.38	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.06	
			For >100 To 250, Add	1.00	
			For >250 To 500, Add	0.44	
			For >2,500 To 5,000, Deduct	-0.19	
			For >5,000 To 10,000, Deduct	-0.37	
			For >10,000 To 20,000, Deduct	-0.56	
			For >20,000, Deduct	-0.74	
09 91 13 00-0109	SF	1	Coat Primer, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.28	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0110	SF	1	Coat Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	1.42	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.50	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0111	SF		2 Coats Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)	2.70	
			For Oil Based Paint, Add	0.19	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.42	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.67	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.92	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.27	
			For >10,000 To 20,000, Deduct	-0.41	
			For >20,000, Deduct	-0.54	
09 91 13 00-0112			Paint Exterior Vinyl Siding (09 91 13 00-0001)		
09 91 13 00-0113	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Vinyl Siding	0.21	
			For Oil Based Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.09	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.13	
			For >100 To 250, Add	0.06	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0114	SF		1 Coat Primer, Brush Work, Paint Exterior Vinyl Siding	1.16	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0115	SF		1 Coat Paint, Brush Work, Paint Exterior Vinyl Siding	1.28	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.53	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0116	SF		2 Coats Paint, Brush Work, Paint Exterior Vinyl Siding	2.37	
			For Oil Based Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.42	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.67	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.92	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.36	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.47	
09 91 13 00-0117	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Vinyl Siding.....	1.07	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0118	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Vinyl Siding	1.07	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0119	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Vinyl Siding	2.00	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.06	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0120	SF		1 Coat Primer, Sprayed, Paint Exterior Vinyl Siding	0.92	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.18	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.25	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0121	SF		1 Coat Paint, Sprayed, Paint Exterior Vinyl Siding.....	1.06	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.18	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.25	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0122	SF		2 Coats Paint, Sprayed, Paint Exterior Vinyl Siding.....	2.07	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.50	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.86	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.41	
09 91 13 00-0123			Paint Exterior Ceilings (09 91 13)		
09 91 13 00-0124			Paint Exterior Concrete Ceilings (09 91 13 00-0123)		
09 91 13 00-0125	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Ceiling.....	0.21	
			For Oil Based Paint, Add	0.01	
			For Epoxy Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.07	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.10	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.14	
			For >100 To 250, Add	0.07	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0126	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Ceiling.....	1.21	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.54	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0127	SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Ceiling	1.30	
	For Oil Based Paint, Add	0.07	
	For Epoxy Paint, Add	0.12	
	For Work >15' To 20' Above Floor, Add	0.17	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.28	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.45	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.62	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.87	
	For >100 To 250, Add	0.41	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.26	
09 91 13 00-0128	SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Ceiling.....	2.33	
	For Oil Based Paint, Add	0.14	
	For Epoxy Paint, Add	0.23	
	For Work >15' To 20' Above Floor, Add	0.29	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.49	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.78	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.08	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.53	
	For >100 To 250, Add	0.72	
	For >250 To 500, Add	0.31	
	For >2,500 To 5,000, Deduct	-0.12	
	For >5,000 To 10,000, Deduct	-0.23	
	For >10,000 To 20,000, Deduct	-0.35	
	For >20,000, Deduct	-0.47	
09 91 13 00-0129	SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.93	
	For Oil Based Paint, Add	0.06	
	For Epoxy Paint, Add	0.12	
	For Work >15' To 20' Above Floor, Add	0.11	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.18	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.28	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.39	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.56	
	For >100 To 250, Add	0.27	
	For >250 To 500, Add	0.12	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.19	
09 91 13 00-0130	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	1.02	
	For Oil Based Paint, Add	0.06	
	For Epoxy Paint, Add	0.11	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.21	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.34	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.46	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.66	
	For >100 To 250, Add	0.31	
	For >250 To 500, Add	0.14	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.20	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT

UNIT COST

DEMOLITION

UNIT COST

09 91 13 00-0131	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling	1.92	
	For Oil Based Paint, Add	0.11	
	For Epoxy Paint, Add	0.21	
	For Work >15' To 20' Above Floor, Add	0.23	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.39	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.62	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.85	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.22	
	For >100 To 250, Add	0.58	
	For >250 To 500, Add	0.25	
	For >2,500 To 5,000, Deduct	-0.10	
	For >5,000 To 10,000, Deduct	-0.19	
	For >10,000 To 20,000, Deduct	-0.29	
	For >20,000, Deduct	-0.38	
09 91 13 00-0132	SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Ceiling	0.74	
	For Oil Based Paint, Add	0.05	
	For Epoxy Paint, Add	0.12	
	For Work >15' To 20' Above Floor, Add	0.07	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.12	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.18	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.25	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.39	
	For >100 To 250, Add	0.19	
	For >250 To 500, Add	0.08	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.07	
	For >10,000 To 20,000, Deduct	-0.11	
	For >20,000, Deduct	-0.15	
09 91 13 00-0133	SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Ceiling	0.84	
	For Oil Based Paint, Add	0.05	
	For Epoxy Paint, Add	0.11	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.15	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.24	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.34	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.49	
	For >100 To 250, Add	0.24	
	For >250 To 500, Add	0.10	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.08	
	For >10,000 To 20,000, Deduct	-0.13	
	For >20,000, Deduct	-0.17	
09 91 13 00-0134	SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Ceiling	1.37	
	For Oil Based Paint, Add	0.09	
	For Epoxy Paint, Add	0.21	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.23	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.36	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.50	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.75	
	For >100 To 250, Add	0.36	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.21	
	For >20,000, Deduct	-0.27	

09 91 13 00-0135 Paint Exterior Wood Ceilings (09 91 13 00-0123)

09 91 13 00-0136 Paint Exterior Smooth Wood Ceilings (09 91 13 00-0135)



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0137	LF	1	Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Ceiling.....	0.26	
			For Oil Based Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.08	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.12	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.17	
			For >100 To 250, Add	0.08	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 20,000, Deduct	-0.04	
			For >20,000, Deduct	-0.05	
09 91 13 00-0138	SF	1	Coat Primer, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.49	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.29	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.47	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.64	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.93	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.30	
09 91 13 00-0139	SF	1	Coat Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.54	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.31	
09 91 13 00-0140	SF	2	Coats Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	2.80	
			For Oil Based Paint, Add	0.17	
			For Work >15' To 20' Above Floor, Add	0.34	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.56	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.90	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.24	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.77	
			For >100 To 250, Add	0.84	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.28	
			For >10,000 To 20,000, Deduct	-0.42	
			For >20,000, Deduct	-0.56	
09 91 13 00-0141	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling.....	1.21	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0142	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	1.30	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.54	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.26	
09 91 13 00-0143	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling	2.33	
			For Oil Based Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.42	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.67	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.92	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.36	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	
09 91 13 00-0144	SF		1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Ceiling	0.89	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0145	SF		1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	0.89	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0146	SF		2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Ceiling	1.61	
			For Oil Based Paint, Add	0.11	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.58	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	



Finishes		09	09
Painting and Coating		09 90	
Painting		09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0147			Paint Exterior Rough Wood Ceilings (09 91 13 00-0135)		
09 91 13 00-0148	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Rough Ceiling.....	2.22	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.97	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.39	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 13 00-0149	SF		1 Coat Paint, Brush Work, Paint Exterior Wood Rough Ceiling	2.25	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.30	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.49	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.79	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.08	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.52	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.31	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000, Deduct	-0.45	
09 91 13 00-0150	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Rough Ceiling	3.92	
			For Oil Based Paint, Add	0.22	
			For Work >15' To 20' Above Floor, Add	0.51	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.84	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.85	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.61	
			For >100 To 250, Add	1.23	
			For >250 To 500, Add	0.53	
			For >2,500 To 5,000, Deduct	-0.20	
			For >5,000 To 10,000, Deduct	-0.39	
			For >10,000 To 20,000, Deduct	-0.59	
			For >20,000, Deduct	-0.78	
09 91 13 00-0151	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Ceiling	1.99	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.76	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0152	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling	2.14	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.39	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.62	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.85	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000, Deduct	-0.43	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0153	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling.....	3.85	
			For Oil Based Paint, Add	0.25	
			For Work >15' To 20' Above Floor, Add	0.40	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.66	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.17	
			For >100 To 250, Add	1.05	
			For >250 To 500, Add	0.46	
			For >2,500 To 5,000, Deduct	-0.19	
			For >5,000 To 10,000, Deduct	-0.39	
			For >10,000 To 20,000, Deduct	-0.58	
			For >20,000, Deduct	-0.77	
09 91 13 00-0154	SF		1 Coat Primer, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.41	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.50	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.75	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0155	SF		1 Coat Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.57	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.58	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 13 00-0156	SF		2 Coats Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	2.86	
			For Oil Based Paint, Add	0.19	
			For Work >15' To 20' Above Floor, Add	0.28	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.46	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.74	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.01	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.53	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.33	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000 To 20,000, Deduct	-0.43	
			For >20,000, Deduct	-0.57	
09 91 13 00-0157			Paint Exterior Metal Ceilings (09 91 13 00-0123)		
09 91 13 00-0158			Paint Exterior Galvanized Ceilings (09 91 13 00-0157)		
			Note: Linseed oil or acrylic latex paint.		



Finishes		09	2
Painting and Coating		09 90	
Painting		09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0159	SF	1	Coat Primer, Brush Work, Paint Exterior Galvanized Ceiling.....	1.49	
			For Work >15' To 20' Above Floor, Add	0.17	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.28	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.45	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.62	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.90	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.30	
09 91 13 00-0160	SF	1	Coat Paint, Brush Work, Paint Exterior Galvanized Ceiling	1.63	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.32	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.33	
09 91 13 00-0161	SF	2	Coats Paint, Brush Work, Paint Exterior Galvanized Ceiling	2.98	
			For Work >15' To 20' Above Floor, Add	0.34	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.56	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.90	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.23	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.79	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.15	
			For >5,000 To 10,000, Deduct	-0.30	
			For >10,000 To 20,000, Deduct	-0.45	
			For >20,000, Deduct	-0.60	
09 91 13 00-0162	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Ceiling	1.15	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0163	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling	1.29	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.39	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.54	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
09 91 13 00-0164	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	2.29		
	For Work >15' To 20' Above Floor, Add	0.25		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.42		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.67		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.92		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	1.35		
	For >100 To 250, Add	0.65		
	For >250 To 500, Add	0.28		
	For >2,500 To 5,000, Deduct	-0.11		
	For >5,000 To 10,000, Deduct	-0.23		
	For >10,000 To 20,000, Deduct	-0.34		
	For >20,000, Deduct	-0.46		
09 91 13 00-0165	SF 1 Coat Primer, Sprayed, Paint Exterior Galvanized Ceiling.....	1.04		
	For Work >15' To 20' Above Floor, Add	0.09		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.15		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.24		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.34		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	0.52		
	For >100 To 250, Add	0.26		
	For >250 To 500, Add	0.11		
	For >2,500 To 5,000, Deduct	-0.05		
	For >5,000 To 10,000, Deduct	-0.10		
	For >10,000 To 20,000, Deduct	-0.16		
	For >20,000, Deduct	-0.21		
09 91 13 00-0166	SF 1 Coat Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.18		
	For Work >15' To 20' Above Floor, Add	0.11		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.19		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.30		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.41		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	0.63		
	For >100 To 250, Add	0.31		
	For >250 To 500, Add	0.13		
	For >2,500 To 5,000, Deduct	-0.06		
	For >5,000 To 10,000, Deduct	-0.12		
	For >10,000 To 20,000, Deduct	-0.18		
	For >20,000, Deduct	-0.24		
09 91 13 00-0167	SF 2 Coats Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.92		
	For Work >15' To 20' Above Floor, Add	0.16		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.27		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.42		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.58		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	0.92		
	For >100 To 250, Add	0.46		
	For >250 To 500, Add	0.20		
	For >2,500 To 5,000, Deduct	-0.10		
	For >5,000 To 10,000, Deduct	-0.19		
	For >10,000 To 20,000, Deduct	-0.29		
	For >20,000, Deduct	-0.38		
09 91 13 00-0168	Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0157)			
	Note: Alkyd enamel paint.			
09 91 13 00-0169	SF 1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.49		
	For Work >15' To 20' Above Floor, Add	0.17		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.28		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.45		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.62		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	0.90		
	For >100 To 250, Add	0.43		
	For >250 To 500, Add	0.19		
	For >2,500 To 5,000, Deduct	-0.07		
	For >5,000 To 10,000, Deduct	-0.15		
	For >10,000 To 20,000, Deduct	-0.22		
	For >20,000, Deduct	-0.30		



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
09 91 13 00-0170	SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		1.63	
	For Work >15' To 20' Above Floor, Add		0.19	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.32	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.50	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.69	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		1.00	
	For >100 To 250, Add		0.48	
	For >250 To 500, Add		0.21	
	For >2,500 To 5,000, Deduct		-0.08	
	For >5,000 To 10,000, Deduct		-0.16	
	For >10,000 To 20,000, Deduct		-0.24	
	For >20,000, Deduct		-0.33	
09 91 13 00-0171	SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		2.98	
	For Work >15' To 20' Above Floor, Add		0.34	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.56	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.90	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		1.23	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		1.79	
	For >100 To 250, Add		0.86	
	For >250 To 500, Add		0.37	
	For >2,500 To 5,000, Deduct		-0.15	
	For >5,000 To 10,000, Deduct		-0.30	
	For >10,000 To 20,000, Deduct		-0.45	
	For >20,000, Deduct		-0.60	
09 91 13 00-0172	SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		1.27	
	For Work >15' To 20' Above Floor, Add		0.13	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.21	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.34	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.46	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.69	
	For >100 To 250, Add		0.34	
	For >250 To 500, Add		0.15	
	For >2,500 To 5,000, Deduct		-0.06	
	For >5,000 To 10,000, Deduct		-0.13	
	For >10,000 To 20,000, Deduct		-0.19	
	For >20,000, Deduct		-0.25	
09 91 13 00-0173	SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		1.41	
	For Work >15' To 20' Above Floor, Add		0.15	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.25	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.39	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.54	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.80	
	For >100 To 250, Add		0.39	
	For >250 To 500, Add		0.17	
	For >2,500 To 5,000, Deduct		-0.07	
	For >5,000 To 10,000, Deduct		-0.14	
	For >10,000 To 20,000, Deduct		-0.21	
	For >20,000, Deduct		-0.28	
09 91 13 00-0174	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling		2.54	
	For Work >15' To 20' Above Floor, Add		0.25	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.42	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.67	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.92	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		1.39	
	For >100 To 250, Add		0.67	
	For >250 To 500, Add		0.30	
	For >2,500 To 5,000, Deduct		-0.13	
	For >5,000 To 10,000, Deduct		-0.25	
	For >10,000 To 20,000, Deduct		-0.38	
	For >20,000, Deduct		-0.51	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0175	SF	1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling	1.04	
		For Work >15' To 20' Above Floor, Add	0.09	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.15	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.24	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.34	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.52	
		For >100 To 250, Add	0.26	
		For >250 To 500, Add	0.11	
		For >2,500 To 5,000, Deduct	-0.05	
		For >5,000 To 10,000, Deduct	-0.10	
		For >10,000 To 20,000, Deduct	-0.16	
		For >20,000, Deduct	-0.21	
09 91 13 00-0176	SF	1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.04	
		For Work >15' To 20' Above Floor, Add	0.09	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.15	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.24	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.34	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.52	
		For >100 To 250, Add	0.26	
		For >250 To 500, Add	0.11	
		For >2,500 To 5,000, Deduct	-0.05	
		For >5,000 To 10,000, Deduct	-0.10	
		For >10,000 To 20,000, Deduct	-0.16	
		For >20,000, Deduct	-0.21	
09 91 13 00-0177	SF	2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.92	
		For Work >15' To 20' Above Floor, Add	0.16	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.27	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.42	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.58	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.92	
		For >100 To 250, Add	0.46	
		For >250 To 500, Add	0.20	
		For >2,500 To 5,000, Deduct	-0.10	
		For >5,000 To 10,000, Deduct	-0.19	
		For >10,000 To 20,000, Deduct	-0.29	
		For >20,000, Deduct	-0.38	
09 91 13 00-0178		Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0157)	1.14	
09 91 13 00-0179	SF	1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Ceiling	1.14	
		For Work >15' To 20' Above Floor, Add	0.10	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.16	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.26	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.36	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.56	
		For >100 To 250, Add	0.28	
		For >250 To 500, Add	0.12	
		For >2,500 To 5,000, Deduct	-0.06	
		For >5,000 To 10,000, Deduct	-0.11	
		For >10,000 To 20,000, Deduct	-0.17	
		For >20,000, Deduct	-0.23	
09 91 13 00-0180	SF	1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	1.30	
		For Work >15' To 20' Above Floor, Add	0.12	
		Note: Applied only to work area above 15' to 20'.		
		For Work >20' To 30' Above Floor, Add	0.20	
		Note: Applied only to work area above 20'.		
		For Work >30' To 40' Above Floor, Add	0.32	
		Note: Applied only to work area above 30' to 40'.		
		For Work >40' Above Floor, Add	0.45	
		Note: Applied only to work area above 40'.		
		For Up To 100, Add	0.68	
		For >100 To 250, Add	0.33	
		For >250 To 500, Add	0.15	
		For >2,500 To 5,000, Deduct	-0.07	
		For >5,000 To 10,000, Deduct	-0.13	
		For >10,000 To 20,000, Deduct	-0.20	
		For >20,000, Deduct	-0.26	



		Finishes	09	09
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0181	SF		2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	2.40	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.56	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.78	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.21	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.48	
09 91 13 00-0182			Paint Exterior Floors (09 91 13)		
09 91 13 00-0183			Paint Exterior Concrete Floors (09 91 13 00-0182)		
09 91 13 00-0184	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Floors And Decks.....	0.17	
			For Up To 100, Add	0.11	
			For >100 To 250, Add	0.05	
			For >250 To 500, Add	0.02	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.03	
09 91 13 00-0185	SF		1 Coat Primer, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.93	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.12	
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 13 00-0186	SF		1 Coat Paint, Brush Work, Paint Exterior Concrete Floors And Decks	1.01	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.10	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0187	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Floors And Decks	1.92	
			For Oil Based Paint, Add	0.11	
			For Epoxy Paint, Add	0.21	
			For Up To 100, Add	1.22	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.38	
09 91 13 00-0188	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	0.78	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0189	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	0.88	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.10	
			For Up To 100, Add	0.55	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0190	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	1.47	
			For Oil Based Paint, Add	0.09	
			For Epoxy Paint, Add	0.18	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 13 00-0191	SF		1 Coat Primer, Sprayed, Paint Exterior Concrete Floors And Decks	0.59	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0192	SF		1 Coat Paint, Sprayed, Paint Exterior Concrete Floors And Decks	0.69	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.10	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0193	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Floors And Decks	1.23	
			For Oil Based Paint, Add	0.08	
			For Epoxy Paint, Add	0.20	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.25	
09 91 13 00-0194	SF		1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	2.34	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.19	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.23	
			For >10,000 To 20,000, Deduct	-0.35	
			For >20,000, Deduct	-0.47	
09 91 13 00-0195	SF		1 Coat Anti-Slip Paint, Single Component Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	5.51	
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.35	
			For >2,500 To 5,000, Deduct	-0.28	
			For >5,000 To 10,000, Deduct	-0.55	
			For >10,000 To 20,000, Deduct	-0.83	
			For >20,000, Deduct	-1.10	
09 91 13 00-0196	SF		1 Coat Anti-Slip Paint, High Performance Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks	6.83	
			For Up To 100, Add	1.44	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.41	
			For >2,500 To 5,000, Deduct	-0.34	
			For >5,000 To 10,000, Deduct	-0.68	
			For >10,000 To 20,000, Deduct	-1.02	
			For >20,000, Deduct	-1.37	
09 91 13 00-0197			Paint Exterior Wood Floors (09 91 13 00-0182)	0.21	
09 91 13 00-0198	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Floors And Decks	0.21	
			For Up To 100, Add	0.13	
			For >100 To 250, Add	0.06	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
09 91 13 00-0199	SF		1 Coat Primer, Brush Work, Paint Exterior Wood Floors And Decks	1.16	
			For Oil Based Paint, Add	0.07	
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	



		Finishes	09	09
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0200	SF	1	Coat Paint, Brush Work, Paint Exterior Wood Floors And Decks	1.26	
			For Oil Based Paint, Add	0.08	
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0201	SF	2	Coats Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.37	
			For Oil Based Paint, Add	0.15	
			For Up To 100, Add	1.45	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.47	
09 91 13 00-0202	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Wood Floors And Decks.....	1.07	
			For Oil Based Paint, Add	0.07	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 13 00-0203	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	1.16	
			For Oil Based Paint, Add	0.07	
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0204	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks	1.91	
			For Oil Based Paint, Add	0.13	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.51	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.29	
			For >20,000, Deduct	-0.38	
09 91 13 00-0205	SF	1	Coat Primer, Sprayed, Paint Exterior Wood Floors And Decks	0.74	
			For Oil Based Paint, Add	0.05	
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0206	SF	1	Coat Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	0.89	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0207	SF	2	Coats Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	1.46	
			For Oil Based Paint, Add	0.10	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 13 00-0208	SF	1	Coat Non-Slip Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.48	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000, Deduct	-0.50	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0209	SF		1 Coat Non-Slip Epoxy Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	6.97	
			For Up To 100, Add	1.55	
			For >100 To 250, Add	0.91	
			For >250 To 500, Add	0.43	
			For >2,500 To 5,000, Deduct	-0.35	
			For >5,000 To 10,000, Deduct	-0.70	
			For >10,000 To 20,000, Deduct	-1.05	
			For >20,000, Deduct	-1.39	
09 91 13 00-0210			Paint Metal Surfaces (09 91 13)		
			Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0211			Paint Structural Steel (09 91 13 00-0210)		
09 91 13 00-0212			Paint Structural Steel, Brush Work (09 91 13 00-0211)		
09 91 13 00-0213	SF		1 Field Coat Primer, Brush/Roller Work, Paint Exterior Structural Steel	1.26	
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
			For Epoxy Paint, Add	0.14	
09 91 13 00-0214	SF		1 Field Coat Paint, Brush/Roller Work, Paint Exterior Structural Steel	1.12	
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For Epoxy Paint, Add	0.13	
09 91 13 00-0215			Paint Structural Steel, Spray Work (09 91 13 00-0211)		
09 91 13 00-0216	SF		1 Field Coat Primer, Sprayed, Paint Exterior Structural Steel.....	0.87	
			For Electrostatic Painting, Add	0.12	
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For Epoxy Paint, Add	0.12	
09 91 13 00-0217	SF		1 Field Coat Paint, Sprayed, Paint Exterior Structural Steel	0.73	
			For Electrostatic Painting, Add	0.11	
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For Epoxy Paint, Add	0.11	
09 91 13 00-0218			Paint Metal Decking, Beams And Bar Joist (09 91 13 00-0211)		
09 91 13 00-0219	SF		1 Coat Primer, Sprayed, Paint Exposed Metal Decking.....	0.98	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For Epoxy Paint, Add	0.12	
09 91 13 00-0220	SF		1 Coat Paint, Sprayed, Paint Exposed Metal Decking	0.98	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For Epoxy Paint, Add	0.12	
09 91 13 00-0221	SF		2 Coats Paint, Sprayed, Paint Exposed Metal Decking	1.65	
			For Up To 100, Add	0.94	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For Epoxy Paint, Add	0.23	
09 91 13 00-0222	SF		1 Coat Primer, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	1.55	
			For Up To 100, Add	0.87	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For Epoxy Paint, Add	0.22	
09 91 13 00-0223	SF		1 Coat Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists.....	1.51	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For Epoxy Paint, Add	0.20	
09 91 13 00-0224	SF		2 Coats Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists	2.85	
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.79	
			For >250 To 500, Add	0.34	
			For Epoxy Paint, Add	0.39	
09 91 13 00-0225	SF		1 Coat Primer, Sprayed, Paint Metal Beams And Bar Joists	1.21	
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.15	
			For Epoxy Paint, Add	0.17	
09 91 13 00-0226	SF		1 Coat Paint, Sprayed, Paint Metal Beams And Bar Joists.....	1.21	
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.15	
			For Epoxy Paint, Add	0.17	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0227	SF		2 Coats Paint, Sprayed, Paint Metal Beams And Bar Joists.....	2.06	
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.24	
			For Epoxy Paint, Add	0.32	
09 91 13 00-0228 Paint Steel Pipes (09 91 13 00-0210)					
Note: Includes pipe, tubes, rails, conduit, etc.					
09 91 13 00-0229	LF		1 Coat Primer, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.12	
			For Electrostatic Painting, Add	0.27	
			For Epoxy Paint, Add	0.22	
09 91 13 00-0230	LF		1 Coat Primer, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.37	
			For Electrostatic Painting, Add	0.30	
			For Epoxy Paint, Add	0.25	
09 91 13 00-0231	LF		1 Coat Primer, 4" Diameter, Paint Steel Pipes.....	2.68	
			For Electrostatic Painting, Add	0.34	
			For Epoxy Paint, Add	0.28	
09 91 13 00-0232	LF		1 Coat Primer, 6" To 8" Diameter, Paint Steel Pipes.....	3.35	
			For Electrostatic Painting, Add	0.42	
			For Epoxy Paint, Add	0.34	
09 91 13 00-0233	LF		1 Coat Primer, 10" To 12" Diameter, Paint Steel Pipes.....	4.23	
			For Electrostatic Painting, Add	0.53	
			For Epoxy Paint, Add	0.43	
09 91 13 00-0234	LF		1 Coat Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.12	
			For Electrostatic Painting, Add	0.27	
			For Epoxy Paint, Add	0.22	
09 91 13 00-0235	LF		1 Coat Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	2.37	
			For Electrostatic Painting, Add	0.30	
			For Epoxy Paint, Add	0.25	
09 91 13 00-0236	LF		1 Coat Paint, 4" Diameter, Paint Steel Pipes.....	2.68	
			For Electrostatic Painting, Add	0.34	
			For Epoxy Paint, Add	0.28	
09 91 13 00-0237	LF		1 Coat Paint, 6" To 8" Diameter, Paint Steel Pipes.....	3.35	
			For Electrostatic Painting, Add	0.42	
			For Epoxy Paint, Add	0.34	
09 91 13 00-0238	LF		1 Coat Paint, 10" To 12" Diameter, Paint Steel Pipes.....	4.23	
			For Electrostatic Painting, Add	0.53	
			For Epoxy Paint, Add	0.43	
09 91 13 00-0239	LF		2 Coats Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe.....	4.30	
			For Electrostatic Painting, Add	0.57	
			For Epoxy Paint, Add	0.50	
09 91 13 00-0240	LF		2 Coats Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe.....	4.76	
			For Electrostatic Painting, Add	0.61	
			For Epoxy Paint, Add	0.50	
09 91 13 00-0241	LF		2 Coats Paint, 4" Diameter, Paint Steel Pipes.....	5.13	
			For Electrostatic Painting, Add	0.66	
			For Epoxy Paint, Add	0.54	
09 91 13 00-0242	LF		2 Coats Paint, 6" To 8" Diameter, Paint Steel Pipes.....	6.49	
			For Electrostatic Painting, Add	0.83	
			For Epoxy Paint, Add	0.68	
09 91 13 00-0243	LF		2 Coats Paint, 10" To 12" Diameter, Paint Steel Pipes.....	7.99	
			For Electrostatic Painting, Add	1.02	
			For Epoxy Paint, Add	0.85	
09 91 13 00-0244	EA		1 Coat Paint, Paint Exposed Single Or Double Gang Outlet Box.....	10.47	
			For Electrostatic Painting, Add	1.10	
			For Epoxy Paint, Add	0.64	
09 91 13 00-0245 Paint Metal Louvers (09 91 13 00-0210)					
09 91 13 00-0246	SF		1 Coat Primer, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	1.74	
			For Electrostatic Painting, Add	0.21	
09 91 13 00-0247	SF		1 Coat Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	1.77	
			For Electrostatic Painting, Add	0.21	
09 91 13 00-0248	SF		2 Coats Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area.....	3.62	
			For Electrostatic Painting, Add	0.44	
09 91 13 00-0249 Paint Ladders (09 91 13 00-0210)					
09 91 13 00-0250	LF		1 Coat Alkyd Primer, Brush/Roller Work, Paint Ladders.....	4.76	
			For Epoxy Paint, Add	0.29	
09 91 13 00-0251	LF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders.....	5.32	
			For Epoxy Paint, Add	0.32	
09 91 13 00-0252	LF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders.....	10.49	
			For Epoxy Paint, Add	0.60	
09 91 13 00-0253 Paint Handrails (09 91 13 00-0210)					
09 91 13 00-0254	LF		1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	1.89	
			For Epoxy Paint, Add	0.15	
09 91 13 00-0255	LF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	2.10	
			For Epoxy Paint, Add	0.16	
09 91 13 00-0256	LF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket.....	3.45	
			For Epoxy Paint, Add	0.23	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0257 LF 1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.47 0.43	
09 91 13 00-0258 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.80 0.45	
09 91 13 00-0259 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	6.50 0.71	
09 91 13 00-0260 LF 1 Coat Alkyd Primer, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.74 0.45	
09 91 13 00-0261 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	4.08 0.46	
09 91 13 00-0262 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	6.89 0.73	
09 91 13 00-0263 LF 1 Coat Alkyd Primer, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	2.08 0.23	
09 91 13 00-0264 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	2.29 0.24	
09 91 13 00-0265 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	4.19 0.47	
09 91 13 00-0266 Paint Grating (09 91 13 00-0210)		
09 91 13 00-0267 SF 1 Coat Primer, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	3.47 0.23	
09 91 13 00-0268 SF 1 Coat Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	3.53 0.25	
09 91 13 00-0269 SF 2 Coats Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	5.31 0.41	
09 91 13 00-0270 Equipment And Tanks (09 91 13 00-0210)		
09 91 13 00-0271 Paint Valves (09 91 13 00-0270) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0272 EA Prime And Paint 4" And Smaller Valve	36.03	
09 91 13 00-0273 EA Prime And Paint 6" To 10" Valve	44.18	
09 91 13 00-0274 EA Prime And Paint 12" To 18" Valve	58.11	
09 91 13 00-0275 EA Prime And Paint 20" To 24" Valve	77.82	
09 91 13 00-0276 EA Prime And Paint >24" To 36" Valve	105.68	
09 91 13 00-0277 EA Prime And Paint >36" To 48" Valve	144.08	
09 91 13 00-0278 Paint Pumps And Motors (09 91 13 00-0270) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0279 EA Prime And Paint Pump Under 1 HP.....	110.45	
09 91 13 00-0280 EA Prime And Paint Pump, 1 HP To 5 HP.....	145.45	
09 91 13 00-0281 EA Prime And Paint Pump, >5 HP To 10 HP	174.69	
09 91 13 00-0282 EA Prime And Paint Pump, >10 HP To 20 HP	195.76	
09 91 13 00-0283 EA Prime And Paint Pump, >20 HP To 30 HP	228.38	
09 91 13 00-0284 EA Prime And Paint Pump, >30 HP To 50 HP	261.01	
09 91 13 00-0285 EA Prime And Paint Pump, >50 HP To 75 HP	287.87	
09 91 13 00-0286 EA Prime And Paint Pump, >75 HP.....	326.27	
09 91 13 00-0287 Paint Storage Tanks (09 91 13 00-0270)		
09 91 13 00-0288 SF 1 Coat Primer, Roller, Paint Storage Tank, Exterior Surface	1.40	
09 91 13 00-0289 SF 1 Coat Paint, Roller, Paint Storage Tank, Exterior Surface.....	1.83	
09 91 13 00-0290 SF 2 Coats Paint, Roller, Paint Storage Tank, Exterior Surface.....	3.47	
09 91 13 00-0291 SF 1 Coat Primer, Roller, Paint Storage Tank, Interior Surface	1.87	
09 91 13 00-0292 SF 1 Coat Paint, Roller, Paint Storage Tank, Interior Surface.....	2.37	
09 91 13 00-0293 SF 2 Coats Paint, Roller, Paint Storage Tank, Interior Surface.....	4.53	
09 91 13 00-0294 SF 1 Coat Primer, Sprayed, Paint Storage Tank, Exterior Surface	1.38	
09 91 13 00-0295 SF 1 Coat Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	1.70	
09 91 13 00-0296 SF 2 Coats Paint, Sprayed, Paint Storage Tank, Exterior Surface.....	3.30	
09 91 13 00-0297 SF 1 Coat Primer, Sprayed, Paint Storage Tank, Interior Surface	1.59	
09 91 13 00-0298 SF 1 Coat Paint, Sprayed, Paint Storage Tank, Interior Surface.....	2.09	
09 91 13 00-0299 SF 2 Coats Paint, Sprayed, Paint Storage Tank, Interior Surface.....	4.04	
09 91 13 00-0300 Other Site Work Painting (09 91 13)		
09 91 13 00-0301 Paint Fencing (09 91 13 00-0300) Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0302 SF 1 Coat Paint, Brush/Roller, Paint Existing Chain Link Fence..... <i>For Epoxy Paint, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.06 0.12 0.67 0.32 0.14	
09 91 13 00-0303 SF 2 Coats Paint, Brush/Roller, Paint Existing Chain Link Fence..... <i>For Epoxy Paint, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.99 0.23 1.23 0.59 0.26	



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
09 91 13 00-0304	SF 1 Coat Paint, Sprayed, Paint Existing Chain Link Fence	0.88		
	For Epoxy Paint, Add	0.13		
	For Electrostatic Painting, Add	0.13		
	For Up To 100, Add	0.50		
	For >100 To 250, Add	0.24		
	For >250 To 500, Add	0.11		
09 91 13 00-0305	SF 2 Coats Paint, Sprayed, Paint Existing Chain Link Fence	1.65		
	For Epoxy Paint, Add	0.24		
	For Electrostatic Painting, Add	0.25		
	For Up To 100, Add	0.91		
	For >100 To 250, Add	0.44		
	For >250 To 500, Add	0.19		
09 91 13 00-0306	SF 1 Coat Primer, Brush/Roller, Paint Wrought Iron Fence	0.97		
	For Epoxy Paint, Add	0.13		
	For Up To 100, Add	0.57		
	For >100 To 250, Add	0.27		
	For >250 To 500, Add	0.12		
09 91 13 00-0307	SF 1 Coat Paint, Brush/Roller, Paint Wrought Iron Fence	0.91		
	For Epoxy Paint, Add	0.11		
	For Up To 100, Add	0.56		
	For >100 To 250, Add	0.27		
	For >250 To 500, Add	0.12		
09 91 13 00-0308	SF Each Additional Coat, Brush/Roller, Paint Wrought Iron Fence	0.66		
	For Epoxy Paint, Add	0.10		
	For Up To 100, Add	0.37		
	For >100 To 250, Add	0.18		
	For >250 To 500, Add	0.08		
09 91 13 00-0309	SF 1 Coat Primer, Brush/Roller, Paint Picket Fence	1.26		
	For Epoxy Paint, Add	0.11		
	For Up To 100, Add	0.86		
	For >100 To 250, Add	0.41		
	For >250 To 500, Add	0.18		
09 91 13 00-0310	SF 1 Coat Paint, Brush/Roller, Paint Picket Fence	1.26		
	For Epoxy Paint, Add	0.11		
	For Up To 100, Add	0.86		
	For >100 To 250, Add	0.41		
	For >250 To 500, Add	0.18		
09 91 13 00-0311	SF Each Additional Coat, Brush/Roller, Paint Picket Fence	0.89		
	For Epoxy Paint, Add	0.09		
	For Up To 100, Add	0.58		
	For >100 To 250, Add	0.28		
	For >250 To 500, Add	0.12		
09 91 13 00-0312	SF 1 Coat Paint, Brush/Roller, Paint Wood Fences	0.93		
	For Up To 100, Add	0.56		
	For >100 To 250, Add	0.27		
	For >250 To 500, Add	0.12		
09 91 13 00-0313	SF 2 Coats Paint, Brush/Roller, Paint Wood Fences	1.68		
	For Up To 100, Add	0.98		
	For >100 To 250, Add	0.47		
	For >250 To 500, Add	0.21		
09 91 13 00-0314	SF 1 Coat Paint, Sprayed, Paint Wood Fences	0.69		
	For Up To 100, Add	0.38		
	For >100 To 250, Add	0.18		
	For >250 To 500, Add	0.08		
09 91 13 00-0315	SF 2 Coats Paint, Sprayed, Paint Wood Fences	1.29		
	For Up To 100, Add	0.69		
	For >100 To 250, Add	0.34		
	For >250 To 500, Add	0.15		
09 91 13 00-0316 Paint Flagpoles (09 91 13 00-0300)				
09 91 13 00-0317	EA 1 Coat Paint, 20' High, Paint Steel Flagpole	233.41		
09 91 13 00-0318	EA 1 Coat Paint, 30' High, Paint Steel Flagpole	314.94		
09 91 13 00-0319	EA 1 Coat Paint, 40' High, Paint Steel Flagpole	396.52		
09 91 13 00-0320	EA 1 Coat Paint, 50' High, Paint Steel Flagpole	478.11		
09 91 13 00-0321	EA 1 Coat Paint, 70' High, Paint Steel Flagpole	631.87		
09 91 13 00-0322	EA 1 Coat Paint, 80' High, Paint Steel Flagpole	712.27		
09 91 13 00-0323	EA 1 Coat Paint, 90' High, Paint Steel Flagpole	792.70		
09 91 13 00-0324 Paint Lattice Or Trellis (09 91 13 00-0300)				
09 91 13 00-0325	SF 1 Coat Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis	1.69		
	For Up To 100, Add	1.13		
	For >100 To 250, Add	0.53		
	For >250 To 500, Add	0.23		
09 91 13 00-0326	SF 2 Coats Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis	3.15		
	For Up To 100, Add	2.09		
	For >100 To 250, Add	0.99		
	For >250 To 500, Add	0.43		
09 91 13 00-0327 Paint Exterior Stairs (09 91 13)				
09 91 13 00-0328 Paint Exterior Concrete Stairs (09 91 13 00-0327)				
09 91 13 00-0329	RSR 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide)	20.72		

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
09 91 13 00-0330	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	20.72		
09 91 13 00-0331	RSR	1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	26.90		
09 91 13 00-0332	RSR	1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	44.86		
09 91 13 00-0333	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	41.45		
09 91 13 00-0334 Paint Exterior Metal Stairs (09 91 13 00-0327)					
09 91 13 00-0335	RSR	1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	10.89		
		<i>For Oil Based Paint, Add</i>	0.59		
09 91 13 00-0336	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide)	10.89		
		<i>For Oil Based Paint, Add</i>	0.59		
09 91 13 00-0337	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	21.77		
		<i>For Oil Based Paint, Add</i>	1.18		
09 91 13 00-0338 Paint Exterior Wood Stairs (09 91 13 00-0327)					
09 91 13 00-0339	RSR	1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide)	10.76		
09 91 13 00-0340	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	10.76		
09 91 13 00-0341	RSR	1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	16.94		
09 91 13 00-0342	RSR	1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	34.90		
09 91 13 00-0343	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	21.51		
09 91 13 00-0344 Paint Exterior Stair Nosing (09 91 13 00-0327)					
09 91 13 00-0345	LF	1 Coat Paint, Up To 2", Non-Slip, Brush Work, Paint Exterior Yellow Stair Safety Strip.....	2.07		
09 91 13 00-0346 Paint Exterior Trim (09 91 13)					
09 91 13 00-0347 Paint Exterior Metal Trim And Gutters (09 91 13 00-0346)					
09 91 13 00-0348	SF	1 Coat Primer, Brush Work, Paint Exterior Exposed Metal Trim.....	1.41		
		<i>For Work >15' To 20' Above Floor, Add</i>	0.18		
		<i>Note: Applied only to work area above 15' to 20'.</i>			
		<i>For Work >20' To 30' Above Floor, Add</i>	0.29		
		<i>Note: Applied only to work area above 20'.</i>			
		<i>For Work >30' To 40' Above Floor, Add</i>	0.47		
		<i>Note: Applied only to work area above 30' to 40'.</i>			
		<i>For Work >40' Above Floor, Add</i>	0.64		
		<i>Note: Applied only to work area above 40'.</i>			
09 91 13 00-0349	SF	1 Coat Paint, Brush Work, Paint Exterior Exposed Metal Trim	1.54		
		<i>For Work >15' To 20' Above Floor, Add</i>	0.20		
		<i>Note: Applied only to work area above 15' to 20'.</i>			
		<i>For Work >20' To 30' Above Floor, Add</i>	0.33		
		<i>Note: Applied only to work area above 20'.</i>			
		<i>For Work >30' To 40' Above Floor, Add</i>	0.52		
		<i>Note: Applied only to work area above 30' to 40'.</i>			
		<i>For Work >40' Above Floor, Add</i>	0.72		
		<i>Note: Applied only to work area above 40'.</i>			
09 91 13 00-0350	SF	2 Coats Paint, Brush Work, Paint Exterior Exposed Metal Trim	2.79		
		<i>For Work >15' To 20' Above Floor, Add</i>	0.35		
		<i>Note: Applied only to work area above 15' to 20'.</i>			
		<i>For Work >20' To 30' Above Floor, Add</i>	0.58		
		<i>Note: Applied only to work area above 20'.</i>			
		<i>For Work >30' To 40' Above Floor, Add</i>	0.92		
		<i>Note: Applied only to work area above 30' to 40'.</i>			
		<i>For Work >40' Above Floor, Add</i>	1.27		
		<i>Note: Applied only to work area above 40'.</i>			
09 91 13 00-0351	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Exposed Metal Trim.....	1.28		
		<i>For Work >15' To 20' Above Floor, Add</i>	0.16		
		<i>Note: Applied only to work area above 15' to 20'.</i>			
		<i>For Work >20' To 30' Above Floor, Add</i>	0.26		
		<i>Note: Applied only to work area above 20'.</i>			
		<i>For Work >30' To 40' Above Floor, Add</i>	0.42		
		<i>Note: Applied only to work area above 30' to 40'.</i>			
		<i>For Work >40' Above Floor, Add</i>	0.57		
		<i>Note: Applied only to work area above 40'.</i>			
09 91 13 00-0352	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim	1.39		
		<i>For Work >15' To 20' Above Floor, Add</i>	0.17		
		<i>Note: Applied only to work area above 15' to 20'.</i>			
		<i>For Work >20' To 30' Above Floor, Add</i>	0.29		
		<i>Note: Applied only to work area above 20'.</i>			
		<i>For Work >30' To 40' Above Floor, Add</i>	0.46		
		<i>Note: Applied only to work area above 30' to 40'.</i>			
		<i>For Work >40' Above Floor, Add</i>	0.63		
		<i>Note: Applied only to work area above 40'.</i>			
09 91 13 00-0353	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim	2.50		
		<i>For Work >15' To 20' Above Floor, Add</i>	0.30		
		<i>Note: Applied only to work area above 15' to 20'.</i>			
		<i>For Work >20' To 30' Above Floor, Add</i>	0.51		
		<i>Note: Applied only to work area above 20'.</i>			
		<i>For Work >30' To 40' Above Floor, Add</i>	0.81		
		<i>Note: Applied only to work area above 30' to 40'.</i>			
		<i>For Work >40' Above Floor, Add</i>	1.11		
		<i>Note: Applied only to work area above 40'.</i>			



Finishes		09
Painting and Coating		09 90
Painting		09 91

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MINOR		TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION		UNIT COST	UNIT COST
09 91 13 00-0354	LF 1 Coat Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.22	
	For Work >15' To 20' Above Floor, Add	0.29	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.48	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.76	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.05	
	Note: Applied only to work area above 40'.		
09 91 13 00-0355	LF 2 Coats Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.84	
	For Work >15' To 20' Above Floor, Add	0.42	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.70	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	1.11	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.53	
	Note: Applied only to work area above 40'.		
09 91 13 00-0356	Paint Exterior Wood Trim (09 91 13 00-0346)		
09 91 13 00-0357	SF 1 Coat Primer, Brush Work, Paint Exterior Wood Trim	2.09	
	For Oil Based Paint, Add	0.13	
	For Work >15' To 20' Above Floor, Add	0.25	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.42	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.67	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.92	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.32	
	For >100 To 250, Add	0.63	
	For >250 To 500, Add	0.27	
	For >2,500 To 5,000, Deduct	-0.10	
	For >5,000 To 10,000, Deduct	-0.21	
	For >10,000 To 20,000, Deduct	-0.31	
	For >20,000, Deduct	-0.42	
09 91 13 00-0358	SF 1 Coat Paint, Brush Work, Paint Exterior Wood Trim	2.26	
	For Oil Based Paint, Add	0.14	
	For Work >15' To 20' Above Floor, Add	0.27	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.45	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.72	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.99	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.42	
	For >100 To 250, Add	0.68	
	For >250 To 500, Add	0.29	
	For >2,500 To 5,000, Deduct	-0.11	
	For >5,000 To 10,000, Deduct	-0.23	
	For >10,000 To 20,000, Deduct	-0.34	
	For >20,000, Deduct	-0.45	
09 91 13 00-0359	SF 2 Coats Paint, Brush Work, Paint Exterior Wood Trim	4.11	
	For Oil Based Paint, Add	0.25	
	For Work >15' To 20' Above Floor, Add	0.48	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.80	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	1.28	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.75	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	2.53	
	For >100 To 250, Add	1.21	
	For >250 To 500, Add	0.52	
	For >2,500 To 5,000, Deduct	-0.21	
	For >5,000 To 10,000, Deduct	-0.41	
	For >10,000 To 20,000, Deduct	-0.62	
	For >20,000, Deduct	-0.82	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0360	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Trim.....	1.67	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.31	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0361	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	1.84	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.21	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.35	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.55	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.76	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.10	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.37	
09 91 13 00-0362	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Trim.....	3.44	
			For Oil Based Paint, Add	0.22	
			For Work >15' To 20' Above Floor, Add	0.38	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.63	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	1.01	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	2.03	
			For >100 To 250, Add	0.97	
			For >250 To 500, Add	0.42	
			For >2,500 To 5,000, Deduct	-0.17	
			For >5,000 To 10,000, Deduct	-0.34	
			For >10,000 To 20,000, Deduct	-0.52	
			For >20,000, Deduct	-0.69	
09 91 13 00-0363	SF		1 Coat Primer, Sprayed, Paint Exterior Wood Trim.....	1.28	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0364	SF		1 Coat Paint, Sprayed, Paint Exterior Wood Trim.....	1.42	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.50	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	



		Finishes	09
		Painting and Coating	09 90
		Painting	09 91

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0365	SF		2 Coats Paint, Sprayed, Paint Exterior Wood Trim.....	2.70	
			For Oil Based Paint, Add	0.19	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.42	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.67	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.92	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.27	
			For >10,000 To 20,000, Deduct	-0.41	
			For >20,000, Deduct	-0.54	
09 91 13 00-0366			Paint Exterior Miscellaneous Metal Surfaces (09 91 13)		
09 91 13 00-0367	SF		1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	1.69	
			For Epoxy Paint, Add	0.20	
			For Electrostatic Painting, Add	0.23	
09 91 13 00-0368	SF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces	1.56	
			For Epoxy Paint, Add	0.15	
			For Electrostatic Painting, Add	0.19	
09 91 13 00-0369	SF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces	3.17	
			For Epoxy Paint, Add	0.32	
			For Electrostatic Painting, Add	0.40	
09 91 33			Painting Materials (09 91)		
			Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.		
09 91 33 00-0001			Primer (09 91 33)		
09 91 33 00-0002	GAL		Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	62.70	
09 91 33 00-0003	GAL		Alkyd Wood Primer, Exterior, 400 SF Per Gallon	39.95	
09 91 33 00-0004	GAL		Prime Coat Oil Wood Primer, 310 SF Per Gallon	50.66	
09 91 33 00-0005	GAL		Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	143.49	
09 91 33 00-0006	EA		Cement Base Primer, 25 Lb. Sack.....	41.78	
09 91 33 00-0007	GAL		Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	64.41	
09 91 33 00-0008	GAL		Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon.....	51.70	
09 91 33 00-0009	GAL		Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon.....	39.95	
09 91 33 00-0010	GAL		Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	36.30	
09 91 33 00-0011	GAL		Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	63.97	
09 91 33 00-0012	GAL		Acrylic Heavy-Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	53.27	
09 91 33 00-0013	GAL		Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon.....	53.27	
09 91 33 00-0014	GAL		Latex Wood Primer, Exterior, 300 SF Per Gallon	60.06	
09 91 33 00-0015	GAL		Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon	39.17	
09 91 33 00-0016	GAL		Red Alkyd Primer, 500 SF Per Gallon	107.32	
09 91 33 00-0017	GAL		Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon	41.78	
09 91 33 00-0018	GAL		Zinc Chromate Primer, 300 SF Per Gallon	33.42	
09 91 33 00-0019	GAL		Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon.....	86.43	
09 91 33 00-0020	GAL		Stain Killer, Alcohol Base.....	53.89	
09 91 33 00-0021	GAL		Sealer, Primer Kilz, 400 SF Per Gallon.....	60.81	
09 91 33 00-0022			Paint (09 91 33)		
09 91 33 00-0023	GAL		Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	29.24	
09 91 33 00-0024	GAL		Acrylic Urethane Sealer	145.01	
09 91 33 00-0025	GAL		Asphalt-Fiber Roof And Foundation Coating, Solvent Type	15.67	
			Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
09 91 33 00-0026	GAL		Concrete Enamel Epoxy, 350 SF Per Gallon.....	90.61	
09 91 33 00-0027	GAL		Concrete Acrylic Sealer, 400 SF Per Gallon	47.52	
09 91 33 00-0028	GAL		Tar Emulsion, Driveway Coating, 120 SF Per Gallon	20.81	
09 91 33 00-0029	GAL		Acrylic Latex, Driveway Coating, 250 SF Per Gallon.....	31.56	
09 91 33 00-0030	GAL		Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	86.07	
09 91 33 00-0031	GAL		Exterior, Oil Base, Gloss, 400 SF Per Gallon	84.97	
09 91 33 00-0032	GAL		Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	69.36	
09 91 33 00-0033	GAL		Exterior, Flat, Oil Base.....	63.58	
09 91 33 00-0034	GAL		Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	60.34	
09 91 33 00-0035	GAL		Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	71.10	
09 91 33 00-0036	GAL		Exterior, Latex Flat Paint, 300 SF Per Gallon	63.12	
09 91 33 00-0037	GAL		Exterior, Water Base, Latex Gloss Enamel.....	89.85	
09 91 33 00-0038	GAL		Cold Galvanizing Paint	363.46	
09 91 33 00-0039	GAL		High Heat Paint.....	151.93	
09 91 33 00-0040	GAL		Heat Resistant Paint.....	101.29	
09 91 33 00-0041	GAL		Zinc Chromate Paint.....	91.64	
09 91 33 00-0042	QT		Anti-Rust Enamel, 500 SF Per Quart.....	36.17	
09 91 33 00-0043	GAL		Rust Inhibitor, Ferrous Metal	101.29	
09 91 33 00-0044	GAL		Masonry Waterproofing, 100 SF Per Gallon	63.12	
09 91 33 00-0045	GAL		Alkyd Latex, Black	75.16	
09 91 33 00-0046	GAL		Alkyd Latex, White	68.33	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0047	GAL		Alkyd Latex, Colors.....	82.40	
09 91 33 00-0048	QT		Wrought Iron Paint, Black	92.45	
09 91 33 00-0049	GAL		Vinyl Paint.....	79.90	
09 91 33 00-0050	GAL		Silicone Alkyd	97.13	
09 91 33 00-0051	GAL		2 Component Solvent Based Acrylic Epoxy	98.70	
09 91 33 00-0052	GAL		2 Component Solvent Based Polyester Epoxy	123.77	
09 91 33 00-0053	GAL		Chlorinated Rubber.....	90.87	
09 91 33 00-0054	GAL		Polyamide Epoxy Sealer.....	94.00	
09 91 33 00-0055	GAL		Coal Tar Epoxy	67.37	
09 91 33 00-0056	GAL		Swimming Pool Enamel, 350 SF Per Gallon.....	84.08	
09 91 33 00-0057	GAL		Swimming Pool Epoxy Or Urethane Base	109.67	
09 91 33 00-0058	GAL		Swimming Pool Rubber Base	75.20	
09 91 33 00-0059	GAL		Interior, Latex Flat Paint, 300 SF Per Gallon	47.78	
09 91 33 00-0060	GAL		Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	58.88	
09 91 33 00-0061	GAL		Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	97.92	
09 91 33 00-0062	GAL		Interior, Ceiling White Latex Flat, 350 SF Per Gallon	33.16	
09 91 33 00-0063	GAL		Linseed Oil.....	28.98	
09 91 33 00-0064	GAL		Latex Floor Paint, 300 SF Per Gallon	47.52	
09 91 33 00-0065	GAL		Acrylic Floor Paint, 400 SF Per Gallon.....	53.53	
09 91 33 00-0066	GAL		Textured Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon.....	48.96	
09 91 33 00-0067	GAL		Acoustic Spray-On Texture, Finish	39.34	
09 91 33 00-0068 Stain, Varnish (09 91 33)					
09 91 33 00-0069	GAL		Thompson Water Sealer, 150 SF Per Gallon.....	27.16	
09 91 33 00-0070	GAL		Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	50.66	
09 91 33 00-0071	GAL		Redwood Oil Stain, 300 SF Per Gallon.....	45.17	
09 91 33 00-0072	GAL		Varnish, Clear.....	47.42	
09 91 33 00-0073	GAL		Penetrating Water-Repellent Stain	34.44	
09 91 33 00-0074	GAL		Redwood Hue Or Clear Stain	30.78	
09 91 33 00-0075	GAL		Polyurethane.....	54.04	
09 91 33 00-0076	GAL		Lacquer, Semi-Gloss	47.66	
09 91 33 00-0077	GAL		Shellac, Clear	62.53	
09 91 33 00-0078	GAL		Acetone.....	20.63	
09 91 33 00-0079	GAL		Paint Thinner	5.09	
09 91 33 00-0080	GAL		Shellac Or Lacquer Thinner	20.89	
09 91 33 00-0081	GAL		Turpentine.....	28.72	
09 91 33 00-0082	GAL		Wood Filler Paste	49.09	
09 91 33 00-0083	GAL		Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	39.17	
09 91 33 00-0084	GAL		Water Based Alkyd Urethane (Sherwin Williams B53W01153)	106.51	
09 91 43 Surface Preparation (09 91)					
See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.					
09 96 High-Performance Coatings (09 90)					
09 96 23 Graffiti-Resistant Coatings (09 96)					
09 96 23 00-0001 Anti-Graffiti Coating (09 96 23)					
09 96 23 00-0002	SF		Sacrificial Anti-Graffiti Coating, Per Coat.....	1.81	
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 96 23 00-0003	SF		Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.92	
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.54	
			For >250 To 500, Add	0.24	
09 96 53 Elastomeric Coatings (09 96)					
09 96 53 00-0001 Elastomeric (09 96 53)					
Note: Per coat.					
09 96 53 00-0002	SF		1 Coat, 5.3 To 8 Wet Mills, Brush Work, Elastomeric Primer Applied To Walls And Floors.....	1.11	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.37	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.51	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	



		Finishes	09	
		Painting and Coating	09 90	
		High-Performance Coatings	09 96	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
09 96 53 00-0003	SF 1 Coat, 5.3 To 8 Wet Mils, Brush/Roller Work, Elastomeric Primer Applied To Walls And Floors		0.94	
	For Work >15' To 20' Above Floor, Add		0.11	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.19	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.30	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.42	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.60	
	For >100 To 250, Add		0.28	
	For >250 To 500, Add		0.12	
	For >2,500 To 5,000, Deduct		-0.05	
	For >5,000 To 10,000, Deduct		-0.09	
	For >10,000 To 20,000, Deduct		-0.14	
	For >20,000, Deduct		-0.19	
09 96 53 00-0004	SF 1 Coat, 5.3 To 8 Wet Mils, Sprayed, Elastomeric Primer Applied To Walls And Floors		0.74	
	For Work >15' To 20' Above Floor, Add		0.08	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.13	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.20	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.28	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.41	
	For >100 To 250, Add		0.20	
	For >250 To 500, Add		0.09	
	For >2,500 To 5,000, Deduct		-0.04	
	For >5,000 To 10,000, Deduct		-0.07	
	For >10,000 To 20,000, Deduct		-0.11	
	For >20,000, Deduct		-0.15	
09 96 53 00-0005	SF 1 Coat, 13 To 16 Wet Mils, Brush Work, Elastomeric Paint Applied To Walls And Floors		2.25	
	For Work >15' To 20' Above Floor, Add		0.16	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.27	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.43	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.59	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.98	
	For >100 To 250, Add		0.49	
	For >250 To 500, Add		0.22	
	For >2,500 To 5,000, Deduct		-0.11	
	For >5,000 To 10,000, Deduct		-0.23	
	For >10,000 To 20,000, Deduct		-0.34	
	For >20,000, Deduct		-0.45	
09 96 53 00-0006	SF 1 Coat, 13 To 16 Wet Mils, Brush/Roller Work, Elastomeric Paint Applied To Walls And Floors		2.08	
	For Work >15' To 20' Above Floor, Add		0.14	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.23	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.36	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.50	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.85	
	For >100 To 250, Add		0.43	
	For >250 To 500, Add		0.19	
	For >2,500 To 5,000, Deduct		-0.10	
	For >5,000 To 10,000, Deduct		-0.21	
	For >10,000 To 20,000, Deduct		-0.31	
	For >20,000, Deduct		-0.42	
09 96 53 00-0007	SF 1 Coat, 13 To 16 Wet Mils, Sprayed, Elastomeric Paint Applied To Walls And Floors		2.18	
	For Work >15' To 20' Above Floor, Add		0.09	
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add		0.15	
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add		0.24	
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add		0.32	
	Note: Applied only to work area above 40'.			
	For Up To 100, Add		0.68	
	For >100 To 250, Add		0.37	
	For >250 To 500, Add		0.17	
	For >2,500 To 5,000, Deduct		-0.11	
	For >5,000 To 10,000, Deduct		-0.22	
	For >10,000 To 20,000, Deduct		-0.33	
	For >20,000, Deduct		-0.44	

09 Finishes**09 90 Painting and Coating****09 96 High-Performance Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0008	SF		1 Coat, 5.3 To 8 Wet Mils, Brush Work, Elastomeric Primer Applied To Ceilings And Overhead.....	1.25	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.58	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 96 53 00-0009	SF		1 Coat, 5.3 To 8 Wet Mils, Brush/Roller Work, Elastomeric Primer Applied To Ceilings And Overhead	1.07	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.49	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 96 53 00-0010	SF		1 Coat, 5.3 To 8 Wet Mils, Sprayed, Elastomeric Primer Applied To Ceilings And Overhead	0.82	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.23	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 96 53 00-0011	SF		1 Coat, 13 To 16 Wet Mils, Brush Work, Elastomeric Paint Applied To Ceilings And Overhead	2.43	
			For Work >15' To 20' Above Floor, Add	0.19	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.31	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.50	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.69	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.56	
			For >250 To 500, Add	0.25	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.24	
			For >10,000 To 20,000, Deduct	-0.36	
			For >20,000, Deduct	-0.49	
09 96 53 00-0012	SF		1 Coat, 13 To 16 Wet Mils, Brush/Roller Work, Elastomeric Paint Applied To Ceilings And Overhead	2.23	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.26	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.42	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.58	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.22	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.45	



Finishes			09
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
09 96 53 00-0013	SF 1 Coat, 13 To 16 Wet Mils, Sprayed, Elastomeric Paint Applied To Ceilings And Overhead	2.28		
	For Work >15' To 20' Above Floor, Add	0.10		
	Note: Applied only to work area above 15' to 20'.			
	For Work >20' To 30' Above Floor, Add	0.17		
	Note: Applied only to work area above 20'.			
	For Work >30' To 40' Above Floor, Add	0.28		
	Note: Applied only to work area above 30' to 40'.			
	For Work >40' Above Floor, Add	0.38		
	Note: Applied only to work area above 40'.			
	For Up To 100, Add	0.76		
	For >100 To 250, Add	0.40		
	For >250 To 500, Add	0.18		
	For >2,500 To 5,000, Deduct	-0.11		
	For >5,000 To 10,000, Deduct	-0.23		
	For >10,000 To 20,000, Deduct	-0.34		
	For >20,000, Deduct	-0.46		
09 96 56 Epoxy Coatings (09 96)				
09 96 56 00-0001	High Build Epoxy (09 96 56)			
09 96 56 00-0002	SF 50 Mil, High Build Epoxy	3.85		
09 96 56 00-0003 Laminated Epoxy With Fiberglass (09 96 56)				
09 96 56 00-0004	SF Laminated Epoxy With Fiberglass	7.58		
09 96 66 Aggregate Wall Coatings (09 96)				
09 96 66 00-0001	Troweled On (09 96 66)			
09 96 66 00-0002	SF Exposed Aggregate - 1/16" To 1/4" - Troweled On	5.37		
09 96 66 00-0003	SF Exposed Aggregate - 1/2" To 5/8" Troweled On	9.65		
09 96 66 00-0004	SF Exposed Aggregate - 1" Troweled On	14.36		
09 96 66 00-0005 Sprayed On (09 96 66)				
09 96 66 00-0006	SF Exposed Aggregate - 1/8" - Sprayed On	4.38		
09 97 Special Coatings (09 90)				
09 97 13 Steel Coatings (09 97)				
09 97 13 23 Exterior Steel Coatings (09 97 13)				
Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.				
09 97 13 23-0001	Surface Preparation For Structural Steel (09 97 13 23)			
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.				
09 97 13 23-0002	SSPC SP2 Hand Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)			
Note: Hand Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust, and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before hand tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 2 or ISO 8501-1 St 3.				
09 97 13 23-0003	SF Type 1 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.97		
	For Up To 100, Add	1.48		
	For >100 To 250, Add	0.69		
	For >250 To 500, Add	0.30		
09 97 13 23-0004	SF Type 2 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.89		
	For Up To 100, Add	1.42		
	For >100 To 250, Add	0.66		
	For >250 To 500, Add	0.28		
09 97 13 23-0005	SF Type 3 Structural Steel SP2 Hand Tool Cleaning Surface Preparation	1.89		
	For Up To 100, Add	1.42		
	For >100 To 250, Add	0.66		
	For >250 To 500, Add	0.28		
09 97 13 23-0006	SF Up To 14" Diameter Pipe SP2 Hand Tool Cleaning Surface Preparation	2.56		
	For Up To 100, Add	1.92		
	For >100 To 250, Add	0.90		
	For >250 To 500, Add	0.38		
09 97 13 23-0007	SSPC SP3 Power Tool Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)			
Note: Power Tool Cleaning removes all loose mill scale, loose rust and other detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife. Before power tool cleaning, remove visible oil, grease, soluble welding residues and salts by the methods outlined in SSPC-SP1. For complete instructions, refer to Society of Protective Coatings Surface Preparation Specification No. 3 or ISO 8501-1 St 3.				

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 97 13 23-0008	SF	Type 1 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	2.00		
		For Up To 100, Add		1.50	
		For >100 To 250, Add		0.70	
		For >250 To 500, Add		0.30	
09 97 13 23-0009	SF	Type 2 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.93		
		For Up To 100, Add		1.45	
		For >100 To 250, Add		0.68	
		For >250 To 500, Add		0.29	
09 97 13 23-0010	SF	Type 3 Structural Steel SP3 Power Tool Cleaning Surface Preparation.....	1.93		
		For Up To 100, Add		1.45	
		For >100 To 250, Add		0.68	
		For >250 To 500, Add		0.29	
09 97 13 23-0011	SF	Up To 14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation	2.61		
		For Up To 100, Add		1.96	
		For >100 To 250, Add		0.91	
		For >250 To 500, Add		0.39	
09 97 13 23-0012	SF	>14" Diameter Pipe SP3 Power Tool Cleaning Surface Preparation	2.34		
		For Up To 100, Add		1.76	
		For >100 To 250, Add		0.82	
		For >250 To 500, Add		0.35	
09 97 13 23-0013 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel					
		(09 97 13 23-0001)			
		Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11			
09 97 13 23-0014	SF	Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.20		
		For Up To 100, Add		0.85	
		For >100 To 250, Add		0.40	
		For >250 To 500, Add		0.17	
09 97 13 23-0015	SF	Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.05		
		For Up To 100, Add		0.75	
		For >100 To 250, Add		0.35	
		For >250 To 500, Add		0.15	
09 97 13 23-0016	SF	Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.04		
		For Up To 100, Add		0.74	
		For >100 To 250, Add		0.35	
		For >250 To 500, Add		0.15	
09 97 13 23-0017	SF	Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation.....	1.50		
		For Up To 100, Add		1.08	
		For >100 To 250, Add		0.51	
		For >250 To 500, Add		0.22	
09 97 13 23-0018 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel					
		(09 97 13 23-0001)			
		Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.			
09 97 13 23-0019	SF	Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	3.10		
		For Up To 100, Add		2.24	
		For >100 To 250, Add		1.05	
		For >250 To 500, Add		0.45	
09 97 13 23-0020	SF	Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.69		
		For Up To 100, Add		1.93	
		For >100 To 250, Add		0.91	
		For >250 To 500, Add		0.39	
09 97 13 23-0021	SF	Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.51		
		For Up To 100, Add		1.80	
		For >100 To 250, Add		0.84	
		For >250 To 500, Add		0.36	
09 97 13 23-0022	SF	Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation.....	3.91		
		For Up To 100, Add		2.84	
		For >100 To 250, Add		1.33	
		For >250 To 500, Add		0.57	
09 97 13 23-0023 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel					
		(09 97 13 23-0001)			
		Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete Instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.			



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0024	SF	Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	6.05		
		For Up To 100, Add	4.39		
		For >100 To 250, Add	2.06		
		For >250 To 500, Add	0.88		
09 97 13 23-0025	SF	Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	5.17		
		For Up To 100, Add	3.74		
		For >100 To 250, Add	1.75		
		For >250 To 500, Add	0.75		
09 97 13 23-0026	SF	Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.73		
		For Up To 100, Add	3.41		
		For >100 To 250, Add	1.60		
		For >250 To 500, Add	0.69		
09 97 13 23-0027	SF	Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	7.34		
		For Up To 100, Add	5.36		
		For >100 To 250, Add	2.51		
		For >250 To 500, Add	1.08		
09 97 13 23-0028		SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)			
		Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP10/NACE 2 or ISO 8501-1 Sa 2.5.			
09 97 13 23-0029	SF	Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.50		
		For Up To 100, Add	3.26		
		For >100 To 250, Add	1.53		
		For >250 To 500, Add	0.66		
09 97 13 23-0030	SF	Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.83		
		For Up To 100, Add	2.76		
		For >100 To 250, Add	1.30		
		For >250 To 500, Add	0.56		
09 97 13 23-0031	SF	Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.61		
		For Up To 100, Add	2.60		
		For >100 To 250, Add	1.22		
		For >250 To 500, Add	0.52		
09 97 13 23-0032	SF	Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation.....	5.34		
		For Up To 100, Add	3.90		
		For >100 To 250, Add	1.82		
		For >250 To 500, Add	0.78		
09 97 13 23-0033		Protective Coatings For Tanks And Structural Steel (09 97 13 23)			
		Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.			
09 97 13 23-0034		1.5 Mil Prime Coat For Structural Steel (09 97 13 23-0033)			
09 97 13 23-0035	SF	Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.30		
		For Up To 100, Add	0.86		
		For >100 To 250, Add	0.41		
		For >250 To 500, Add	0.18		
09 97 13 23-0036	SF	Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.98		
		For Up To 100, Add	0.63		
		For >100 To 250, Add	0.30		
		For >250 To 500, Add	0.13		
09 97 13 23-0037	SF	Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.87		
		For Up To 100, Add	0.55		
		For >100 To 250, Add	0.26		
		For >250 To 500, Add	0.11		
09 97 13 23-0038	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.55		
		For Up To 100, Add	1.05		
		For >100 To 250, Add	0.50		
		For >250 To 500, Add	0.21		
09 97 13 23-0039	SF	Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.83		
		For Up To 100, Add	1.25		
		For >100 To 250, Add	0.59		
		For >250 To 500, Add	0.25		
09 97 13 23-0040	SF	Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.36		
		For Up To 100, Add	0.92		
		For >100 To 250, Add	0.43		
		For >250 To 500, Add	0.19		
09 97 13 23-0041	SF	Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	1.21		
		For Up To 100, Add	0.81		
		For >100 To 250, Add	0.38		
		For >250 To 500, Add	0.16		
09 97 13 23-0042	SF	Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	2.21		
		For Up To 100, Add	1.54		
		For >100 To 250, Add	0.73		
		For >250 To 500, Add	0.31		
09 97 13 23-0043		1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0033)			

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0044	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.85	
			For Up To 100, Add	2.50	
			For >100 To 250, Add	1.19	
			For >250 To 500, Add	0.51	
09 97 13 23-0045	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.79	
			For Up To 100, Add	1.74	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.36	
09 97 13 23-0046	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.58	
			For Up To 100, Add	1.59	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.33	
09 97 13 23-0047	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.68	
			For Up To 100, Add	3.11	
			For >100 To 250, Add	1.47	
			For >250 To 500, Add	0.64	
09 97 13 23-0048	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.89	
			For Up To 100, Add	1.88	
			For >100 To 250, Add	0.89	
			For >250 To 500, Add	0.39	
09 97 13 23-0049	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.08	
			For Up To 100, Add	1.30	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
09 97 13 23-0050	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.94	
			For Up To 100, Add	1.20	
			For >100 To 250, Add	0.57	
			For >250 To 500, Add	0.25	
09 97 13 23-0051	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.49	
			For Up To 100, Add	2.32	
			For >100 To 250, Add	1.10	
			For >250 To 500, Add	0.47	
09 97 13 23-0052	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.84	
			For Up To 100, Add	4.00	
			For >100 To 250, Add	1.88	
			For >250 To 500, Add	0.81	
09 97 13 23-0053	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.16	
			For Up To 100, Add	2.77	
			For >100 To 250, Add	1.31	
			For >250 To 500, Add	0.57	
09 97 13 23-0054	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.83	
			For Up To 100, Add	2.52	
			For >100 To 250, Add	1.20	
			For >250 To 500, Add	0.52	
09 97 13 23-0055	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	7.17	
			For Up To 100, Add	4.98	
			For >100 To 250, Add	2.34	
			For >250 To 500, Add	1.01	
09 97 13 23-0056	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.38	
			For Up To 100, Add	3.00	
			For >100 To 250, Add	1.41	
			For >250 To 500, Add	0.61	
09 97 13 23-0057	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.11	
			For Up To 100, Add	2.07	
			For >100 To 250, Add	0.98	
			For >250 To 500, Add	0.42	
09 97 13 23-0058	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.87	
			For Up To 100, Add	1.89	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
09 97 13 23-0059	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	5.37	
			For Up To 100, Add	3.73	
			For >100 To 250, Add	1.76	
			For >250 To 500, Add	0.76	
09 97 13 23-0060			Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0033)		
09 97 13 23-0061	SF		Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.97	
			For Up To 100, Add	1.95	
			For >100 To 250, Add	0.92	
			For >250 To 500, Add	0.40	
09 97 13 23-0062	SF		Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.42	
			For Up To 100, Add	1.56	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
09 97 13 23-0063	SF		Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.23	
			For Up To 100, Add	1.42	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.29	
09 97 13 23-0064	SF		Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.69	
			For Up To 100, Add	2.48	
			For >100 To 250, Add	1.17	
			For >250 To 500, Add	0.51	



		Finishes	09	
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 97 13 23-0065	SF	Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.90		
		For Up To 100, Add		1.25	
		For >100 To 250, Add		0.59	
		For >250 To 500, Add		0.26	
09 97 13 23-0066	SF	Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.55		
		For Up To 100, Add		1.00	
		For >100 To 250, Add		0.48	
		For >250 To 500, Add		0.21	
09 97 13 23-0067	SF	Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.43		
		For Up To 100, Add		0.91	
		For >100 To 250, Add		0.43	
		For >250 To 500, Add		0.19	
09 97 13 23-0068	SF	Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.36		
		For Up To 100, Add		1.58	
		For >100 To 250, Add		0.75	
		For >250 To 500, Add		0.32	
09 97 13 23-0069	SF	Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.17		
		For Up To 100, Add		2.85	
		For >100 To 250, Add		1.34	
		For >250 To 500, Add		0.58	
09 97 13 23-0070	SF	Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.39		
		For Up To 100, Add		2.29	
		For >100 To 250, Add		1.08	
		For >250 To 500, Add		0.47	
09 97 13 23-0071	SF	Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.09		
		For Up To 100, Add		2.07	
		For >100 To 250, Add		0.98	
		For >250 To 500, Add		0.42	
09 97 13 23-0072	SF	Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	5.23		
		For Up To 100, Add		3.63	
		For >100 To 250, Add		1.71	
		For >250 To 500, Add		0.74	
09 97 13 23-0073	SF	Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.68		
		For Up To 100, Add		1.83	
		For >100 To 250, Add		0.86	
		For >250 To 500, Add		0.37	
09 97 13 23-0074	SF	Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.16		
		For Up To 100, Add		1.46	
		For >100 To 250, Add		0.69	
		For >250 To 500, Add		0.30	
09 97 13 23-0075	SF	Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.98		
		For Up To 100, Add		1.32	
		For >100 To 250, Add		0.63	
		For >250 To 500, Add		0.27	
09 97 13 23-0076	SF	Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	3.35		
		For Up To 100, Add		2.33	
		For >100 To 250, Add		1.10	
		For >250 To 500, Add		0.47	
09 97 13 23-0077		2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel (09 97 13 23-0033)			
09 97 13 23-0078	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.90		
		For Up To 100, Add		2.90	
		For >100 To 250, Add		1.39	
		For >250 To 500, Add		0.61	
09 97 13 23-0079	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.58		
		For Up To 100, Add		1.98	
		For >100 To 250, Add		0.96	
		For >250 To 500, Add		0.42	
09 97 13 23-0080	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.17		
		For Up To 100, Add		1.68	
		For >100 To 250, Add		0.82	
		For >250 To 500, Add		0.36	
09 97 13 23-0081	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	5.54		
		For Up To 100, Add		3.36	
		For >100 To 250, Add		1.61	
		For >250 To 500, Add		0.70	
09 97 13 23-0082	SF	Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.43		
		For Up To 100, Add		2.03	
		For >100 To 250, Add		0.98	
		For >250 To 500, Add		0.42	
09 97 13 23-0083	SF	Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.50		
		For Up To 100, Add		1.38	
		For >100 To 250, Add		0.67	
		For >250 To 500, Add		0.29	
09 97 13 23-0084	SF	Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.22		
		For Up To 100, Add		1.17	
		For >100 To 250, Add		0.57	
		For >250 To 500, Add		0.25	
09 97 13 23-0085	SF	Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.88		
		For Up To 100, Add		2.35	
		For >100 To 250, Add		1.13	
		For >250 To 500, Add		0.49	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
09 97 13 23-0086		2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel (09 97 13 23-0033)			
09 97 13 23-0087	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	5.26		
		For Up To 100, Add	2.96		
		For >100 To 250, Add	1.43		
		For >250 To 500, Add	0.62		
09 97 13 23-0088	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.91		
		For Up To 100, Add	2.03		
		For >100 To 250, Add	0.99		
		For >250 To 500, Add	0.44		
09 97 13 23-0089	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	3.50		
		For Up To 100, Add	1.73		
		For >100 To 250, Add	0.85		
		For >250 To 500, Add	0.38		
09 97 13 23-0090	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	5.91		
		For Up To 100, Add	3.41		
		For >100 To 250, Add	1.64		
		For >250 To 500, Add	0.72		
09 97 13 23-0091	SF	Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	4.31		
		For Up To 100, Add	2.42		
		For >100 To 250, Add	1.17		
		For >250 To 500, Add	0.51		
09 97 13 23-0092	SF	Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	3.20		
		For Up To 100, Add	1.66		
		For >100 To 250, Add	0.81		
		For >250 To 500, Add	0.36		
09 97 13 23-0093	SF	Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.87		
		For Up To 100, Add	1.41		
		For >100 To 250, Add	0.70		
		For >250 To 500, Add	0.31		
09 97 13 23-0094	SF	Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	4.86		
		For Up To 100, Add	2.81		
		For >100 To 250, Add	1.35		
		For >250 To 500, Add	0.59		
09 97 13 23-0095		1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel (09 97 13 23-0033)			
09 97 13 23-0096	SF	Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	11.00		
		For Up To 100, Add	6.35		
		For >100 To 250, Add	3.06		
		For >250 To 500, Add	1.33		
09 97 13 23-0097	SF	Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.35		
		For Up To 100, Add	4.56		
		For >100 To 250, Add	2.21		
		For >250 To 500, Add	0.97		
09 97 13 23-0098	SF	Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.05		
		For Up To 100, Add	4.33		
		For >100 To 250, Add	2.11		
		For >250 To 500, Add	0.92		
09 97 13 23-0099	SF	Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	12.76		
		For Up To 100, Add	7.63		
		For >100 To 250, Add	3.66		
		For >250 To 500, Add	1.59		
09 97 13 23-0100		1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel (09 97 13 23-0033)			
09 97 13 23-0101	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	5.81		
		For Up To 100, Add	3.10		
		For >100 To 250, Add	1.51		
		For >250 To 500, Add	0.66		
09 97 13 23-0102	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.59		
		For Up To 100, Add	2.19		
		For >100 To 250, Add	1.09		
		For >250 To 500, Add	0.48		
09 97 13 23-0103	SF	Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.38		
		For Up To 100, Add	2.04		
		For >100 To 250, Add	1.01		
		For >250 To 500, Add	0.45		
09 97 13 23-0104	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	6.58		
		For Up To 100, Add	3.64		
		For >100 To 250, Add	1.76		
		For >250 To 500, Add	0.77		
09 97 13 23-0105	SF	Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	4.58		
		For Up To 100, Add	2.45		
		For >100 To 250, Add	1.19		
		For >250 To 500, Add	0.52		
09 97 13 23-0106	SF	Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.62		
		For Up To 100, Add	1.73		
		For >100 To 250, Add	0.86		
		For >250 To 500, Add	0.38		



		Finishes	09
		Painting and Coating	09 90
		Special Coatings	09 97

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0107	SF		Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.47	
			For Up To 100, Add	1.62	
			For >100 To 250, Add	0.80	
			For >250 To 500, Add	0.36	
09 97 13 23-0108	SF		Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	5.20	
			For Up To 100, Add	2.87	
			For >100 To 250, Add	1.39	
			For >250 To 500, Add	0.61	
09 97 13 23-0109 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0033)					
09 97 13 23-0110	SF		Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	4.91	
			For Up To 100, Add	2.97	
			For >100 To 250, Add	1.42	
			For >250 To 500, Add	0.62	
09 97 13 23-0111	SF		Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.99	
			For Up To 100, Add	2.34	
			For >100 To 250, Add	1.13	
			For >250 To 500, Add	0.49	
09 97 13 23-0112	SF		Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.69	
			For Up To 100, Add	2.12	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.45	
09 97 13 23-0113	SF		Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats	6.04	
			For Up To 100, Add	3.79	
			For >100 To 250, Add	1.81	
			For >250 To 500, Add	0.78	
09 97 13 23-0114 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0033)					
09 97 13 23-0115	SF		Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.71	
			For Up To 100, Add	2.99	
			For >100 To 250, Add	1.42	
			For >250 To 500, Add	0.62	
09 97 13 23-0116	SF		Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.36	
			For Up To 100, Add	2.01	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.42	
09 97 13 23-0117	SF		Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.85	
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.79	
			For >250 To 500, Add	0.34	
09 97 13 23-0118	SF		Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	5.38	
			For Up To 100, Add	3.46	
			For >100 To 250, Add	1.64	
			For >250 To 500, Add	0.71	
09 97 13 23-0119 One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0033)					
09 97 13 23-0120	SF		Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat	2.54	
			For Up To 100, Add	1.34	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.29	
09 97 13 23-0121	SF		Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat	1.85	
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
09 97 13 23-0122	SF		Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat	1.75	
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.40	
			For >250 To 500, Add	0.18	
09 97 13 23-0123	SF		Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	2.67	
			For Up To 100, Add	1.42	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
09 97 13 23-0124 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0033)					
Note: Installed over existing primer.					
09 97 13 23-0125	SF		Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.90	
			For Up To 100, Add	2.27	
			For >100 To 250, Add	1.09	
			For >250 To 500, Add	0.48	
09 97 13 23-0126	SF		Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.20	
			For Up To 100, Add	1.81	
			For >100 To 250, Add	0.87	
			For >250 To 500, Add	0.38	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0127	SF		Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.80	
			For Up To 100, Add	1.51	
			For >100 To 250, Add	0.73	
			For >250 To 500, Add	0.32	
09 97 13 23-0128	SF		Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats	4.54	
			For Up To 100, Add	2.73	
			For >100 To 250, Add	1.31	
			For >250 To 500, Add	0.57	
09 97 13 24 Steel Water Storage Tank Painting (09 97 13)					
09 97 13 24-0001			Surface Preparation For Tanks (09 97 13 24) Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002			SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003	SF		Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.89	
			For Up To 100, Add	1.42	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.28	
09 97 13 24-0004	SF		Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.68	
			For Up To 100, Add	1.26	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.25	
09 97 13 24-0005	SF		Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation	2.37	
			For Up To 100, Add	1.78	
			For >100 To 250, Add	0.83	
			For >250 To 500, Add	0.36	
09 97 13 24-0006			SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007	SF		Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	1.01	
			For Up To 100, Add	0.72	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 97 13 24-0008	SF		Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.83	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 97 13 24-0009	SF		Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation	1.44	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 24-0010			SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0011	SF		Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.51	
			For Up To 100, Add	1.80	
			For >100 To 250, Add	0.84	
			For >250 To 500, Add	0.36	
09 97 13 24-0012	SF		Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.29	
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.77	
			For >250 To 500, Add	0.33	
09 97 13 24-0013	SF		Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation	3.36	
			For Up To 100, Add	2.44	
			For >100 To 250, Add	1.14	
			For >250 To 500, Add	0.49	
09 97 13 24-0014			SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0015	SF		Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	4.53	
			For Up To 100, Add	3.26	
			For >100 To 250, Add	1.53	
			For >250 To 500, Add	0.66	
09 97 13 24-0016	SF		Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	4.31	
			For Up To 100, Add	3.09	
			For >100 To 250, Add	1.45	
			For >250 To 500, Add	0.62	
09 97 13 24-0017	SF		Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation	6.35	
			For Up To 100, Add	4.62	
			For >100 To 250, Add	2.17	
			For >250 To 500, Add	0.93	
09 97 13 24-0018			SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0019	SF		Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation	3.60	
			For Up To 100, Add	2.60	
			For >100 To 250, Add	1.22	
			For >250 To 500, Add	0.52	



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0020	SF		Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.60	
			For Up To 100, Add	2.60	
			For >100 To 250, Add	1.22	
			For >250 To 500, Add	0.52	
09 97 13 24-0021	SF		Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	5.33	
			For Up To 100, Add	3.90	
			For >100 To 250, Add	1.82	
			For >250 To 500, Add	0.78	
09 97 13 24-0022			Protective Coatings For Tanks (09 97 13 24)		
			Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023			1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024	SF		Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.76	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
09 97 13 24-0025	SF		Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.62	
			For Up To 100, Add	0.37	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
09 97 13 24-0026	SF		Spray Tank Interior 1.5 Mil Prime Coat	1.46	
			For Up To 100, Add	1.00	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
09 97 13 24-0027	SF		Brush Small Vessel/Tank 1.5 Mil Prime Coat	1.05	
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
09 97 13 24-0028	SF		Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.85	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
09 97 13 24-0029	SF		Brush Tank Interior 1.5 Mil Prime Coat	2.08	
			For Up To 100, Add	1.46	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
09 97 13 24-0030			1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.26	
			For Up To 100, Add	1.36	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
09 97 13 24-0032	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.77	
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
09 97 13 24-0033	SF		Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.17	
			For Up To 100, Add	2.79	
			For >100 To 250, Add	1.32	
			For >250 To 500, Add	0.57	
09 97 13 24-0034	SF		Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.70	
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 24-0035	SF		Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.32	
			For Up To 100, Add	0.74	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
09 97 13 24-0036	SF		Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.13	
			For Up To 100, Add	2.10	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
09 97 13 24-0037	SF		Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.32	
			For Up To 100, Add	2.15	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.44	
09 97 13 24-0038	SF		Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.51	
			For Up To 100, Add	1.55	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.32	
09 97 13 24-0039	SF		Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	6.41	
			For Up To 100, Add	4.47	
			For >100 To 250, Add	2.10	
			For >250 To 500, Add	0.91	
09 97 13 24-0040	SF		Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.50	
			For Up To 100, Add	1.62	
			For >100 To 250, Add	0.77	
			For >250 To 500, Add	0.33	
09 97 13 24-0041	SF		Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.88	
			For Up To 100, Add	1.16	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 97 13 24-0042	SF	Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.81	
		For Up To 100, Add	3.36	
		For >100 To 250, Add	1.58	
		For >250 To 500, Add	0.68	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)				
09 97 13 24-0044	SF	Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.01	
		For Up To 100, Add	1.26	
		For >100 To 250, Add	0.60	
		For >250 To 500, Add	0.26	
09 97 13 24-0045	SF	Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.71	
		For Up To 100, Add	1.04	
		For >100 To 250, Add	0.50	
		For >250 To 500, Add	0.22	
09 97 13 24-0046	SF	Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.32	
		For Up To 100, Add	2.99	
		For >100 To 250, Add	1.41	
		For >250 To 500, Add	0.61	
09 97 13 24-0047	SF	Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.28	
		For Up To 100, Add	0.80	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.17	
09 97 13 24-0048	SF	Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.10	
		For Up To 100, Add	0.67	
		For >100 To 250, Add	0.32	
		For >250 To 500, Add	0.14	
09 97 13 24-0049	SF	Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	2.77	
		For Up To 100, Add	1.92	
		For >100 To 250, Add	0.90	
		For >250 To 500, Add	0.39	
09 97 13 24-0050	SF	Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.79	
		For Up To 100, Add	1.85	
		For >100 To 250, Add	0.87	
		For >250 To 500, Add	0.38	
09 97 13 24-0051	SF	Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.33	
		For Up To 100, Add	1.50	
		For >100 To 250, Add	0.71	
		For >250 To 500, Add	0.31	
09 97 13 24-0052	SF	Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	6.60	
		For Up To 100, Add	4.79	
		For >100 To 250, Add	2.25	
		For >250 To 500, Add	0.96	
09 97 13 24-0053	SF	Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.78	
		For Up To 100, Add	1.18	
		For >100 To 250, Add	0.56	
		For >250 To 500, Add	0.24	
09 97 13 24-0054	SF	Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.50	
		For Up To 100, Add	0.97	
		For >100 To 250, Add	0.46	
		For >250 To 500, Add	0.20	
09 97 13 24-0055	SF	Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	4.32	
		For Up To 100, Add	3.08	
		For >100 To 250, Add	1.45	
		For >250 To 500, Add	0.62	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks (09 97 13 24-0022)				
09 97 13 24-0057	SF	Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.94	
		For Up To 100, Add	1.53	
		For >100 To 250, Add	0.75	
		For >250 To 500, Add	0.33	
09 97 13 24-0058	SF	Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.53	
		For Up To 100, Add	1.22	
		For >100 To 250, Add	0.60	
		For >250 To 500, Add	0.27	
09 97 13 24-0059	SF	Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.05	
		For Up To 100, Add	1.06	
		For >100 To 250, Add	0.52	
		For >250 To 500, Add	0.23	
09 97 13 24-0060	SF	Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.77	
		For Up To 100, Add	0.85	
		For >100 To 250, Add	0.42	
		For >250 To 500, Add	0.19	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks (09 97 13 24-0022)				
09 97 13 24-0062	SF	Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.26	
		For Up To 100, Add	1.58	
		For >100 To 250, Add	0.78	
		For >250 To 500, Add	0.34	



		Finishes	09	2
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0063	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.85	
			For Up To 100, Add	1.27	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.28	
09 97 13 24-0064	SF		Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.67	
			For Up To 100, Add	1.29	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.28	
09 97 13 24-0065	SF		Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.35	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats					
For Tanks (09 97 13 24-0022)					
09 97 13 24-0067	SF		Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.78	
			For Up To 100, Add	4.18	
			For >100 To 250, Add	2.03	
			For >250 To 500, Add	0.89	
09 97 13 24-0068	SF		Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.18	
			For Up To 100, Add	3.73	
			For >100 To 250, Add	1.82	
			For >250 To 500, Add	0.80	
09 97 13 24-0069	SF		Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	11.78	
			For Up To 100, Add	7.18	
			For >100 To 250, Add	3.43	
			For >250 To 500, Add	1.49	
09 97 13 24-0070 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0071	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.09	
			For Up To 100, Add	1.96	
			For >100 To 250, Add	0.97	
			For >250 To 500, Add	0.43	
09 97 13 24-0072	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.65	
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.82	
			For >250 To 500, Add	0.36	
09 97 13 24-0073	SF		Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	6.05	
			For Up To 100, Add	3.43	
			For >100 To 250, Add	1.66	
			For >250 To 500, Add	0.72	
09 97 13 24-0074	SF		Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	3.24	
			For Up To 100, Add	1.55	
			For >100 To 250, Add	0.77	
			For >250 To 500, Add	0.34	
09 97 13 24-0075	SF		Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	2.88	
			For Up To 100, Add	1.28	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.29	
09 97 13 24-0076	SF		Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	4.78	
			For Up To 100, Add	2.71	
			For >100 To 250, Add	1.31	
			For >250 To 500, Add	0.57	
09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0078	SF		Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	3.66	
			For Up To 100, Add	2.12	
			For >100 To 250, Add	1.02	
			For >250 To 500, Add	0.44	
09 97 13 24-0079	SF		Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	3.05	
			For Up To 100, Add	1.66	
			For >100 To 250, Add	0.81	
			For >250 To 500, Add	0.35	
09 97 13 24-0080	SF		Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	4.66	
			For Up To 100, Add	2.87	
			For >100 To 250, Add	1.37	
			For >250 To 500, Add	0.59	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0082	SF		Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.52	
			For Up To 100, Add	1.40	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.30	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 97 13 24-0083	SF	Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.33		
		For Up To 100, Add	1.26		
		For >100 To 250, Add	0.61		
		For >250 To 500, Add	0.27		
09 97 13 24-0084	SF	Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.82		
		For Up To 100, Add	2.37		
		For >100 To 250, Add	1.13		
		For >250 To 500, Add	0.49		
09 97 13 24-0085		Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)			
09 97 13 24-0086	SF	Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	5.56		
		For Up To 100, Add	3.25		
		For >100 To 250, Add	1.56		
		For >250 To 500, Add	0.68		
09 97 13 24-0087	SF	Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats.....	3.40		
		For Up To 100, Add	1.71		
		For >100 To 250, Add	0.84		
		For >250 To 500, Add	0.37		
09 97 13 24-0088		One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)			
09 97 13 24-0089	SF	Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.64		
		For Up To 100, Add	0.73		
		For >100 To 250, Add	0.37		
		For >250 To 500, Add	0.16		
09 97 13 24-0090	SF	Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.59		
		For Up To 100, Add	0.69		
		For >100 To 250, Add	0.35		
		For >250 To 500, Add	0.16		
09 97 13 24-0091	SF	Spray Tank Interior One 3 Mil High Zinc Silicate Coat.....	2.53		
		For Up To 100, Add	1.40		
		For >100 To 250, Add	0.68		
		For >250 To 500, Add	0.30		
09 97 13 24-0092		Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)			
		Note: Installed over existing primer.			
09 97 13 24-0093	SF	Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.66		
		For Up To 100, Add	1.42		
		For >100 To 250, Add	0.69		
		For >250 To 500, Add	0.30		
09 97 13 24-0094	SF	Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.36		
		For Up To 100, Add	1.19		
		For >100 To 250, Add	0.59		
		For >250 To 500, Add	0.26		
09 97 13 24-0095	SF	Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.67		
		For Up To 100, Add	2.18		
		For >100 To 250, Add	1.04		
		For >250 To 500, Add	0.45		
09 97 13 24-0096		One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)			
09 97 13 24-0097	SF	Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	9.59		
		For Up To 100, Add	6.01		
		For >100 To 250, Add	2.86		
		For >250 To 500, Add	1.24		
09 97 26		Cementitious Coatings (09 97)			
09 97 26 13		Interior Cementitious Coatings (09 97 26)			
09 97 26 13-0001		Ceramic-Like Glazed Coating (09 97 26 13)			
09 97 26 13-0002		Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)			
09 97 26 13-0003	SF	Ceramic-like Glazed Coating. - Cementitious.....	3.30		
09 97 26 13-0004		Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)			
09 97 26 13-0005	SF	Ceramic-like Glazed Coating - Resin.....	2.81		
09 97 63		Special Coatings and Protection Systems (09 97)			
09 97 63 00-0001		Acrylic Glazed Coating (09 97 63)			
09 97 63 00-0002	SF	Acrylic Glazed Coating.....	2.18		



		Finishes	09	09
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

END OF SECTION 09

09	09	Finishes
	09 90	Painting and Coating
	09 97	Special Coatings



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Specialties			10
Information Specialties			10 10
Signage			10 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring, 26 05 83 00-0130 for terminations.

10 14 53 Traffic Signage ^(10 14)

10 14 53 11 Traffic Signage ^(10 14 53)

10 14 53 11-0001 Traffic Signs (Monterey County) ^(10 14 53 11)

Note: Excludes posts.

10 14 53 11-0002	EA	Roadside Sign-One Post (Monterey County).....	456.65	28.35
10 14 53 11-0003	EA	Install Roadside Sign Panel On Existing Post (Monterey County).....	207.67	

10 14 53 11-0004 Solar Powered, Aluminum, Polycarbonate, LED Radar Speed Display Sign ^(10 14 53 11)

Note: Excludes posts.

10 14 53 11-0005	EA	29" x 23" Sign Size, Solar Powered, Aluminum, Polycarbonate, LED Radar Speed Display Sign	5,172.18	20.83

10 14 53 11-0006 Traffic Signs ^(10 14 53 11)

10 14 53 11-0007 Reflectorized Stop Signs And Other Traffic Signs ^(10 14 53 11-0006)

Note: Excludes posts.

10 14 53 11-0008 Aluminum Engineer Grade Stop Signs ^(10 14 53 11-0007)

10 14 53 11-0009	EA	18" x 18" Aluminum Engineer Grade Stop Sign	83.98	20.83
		For Hi-Intensity Grade, Add	12.70	
		For Diamond Grade, Add	24.13	
10 14 53 11-0010	EA	18" x 24" Aluminum Engineer Grade Stop Sign	99.32	22.02
		For Hi-Intensity Grade, Add	16.61	
		For Diamond Grade, Add	31.56	
10 14 53 11-0011	EA	24" x 24" Aluminum Engineer Grade Stop Sign	108.16	23.14
		For Hi-Intensity Grade, Add	25.37	
		For Diamond Grade, Add	40.22	
10 14 53 11-0012	EA	30" x 30" Aluminum Engineer Grade Stop Sign	127.84	24.33
		For Hi-Intensity Grade, Add	9.51	
		For Diamond Grade, Add	51.51	
10 14 53 11-0013	EA	36" x 36" Aluminum Engineer Grade Stop Sign	177.91	25.45
		For Hi-Intensity Grade, Add	27.94	
		For Diamond Grade, Add	87.64	

10 14 53 11-0014 Steel Engineer Grade Stop Signs ^(10 14 53 11-0007)

10 14 53 11-0015	EA	18" x 18" Reflective Steel Stop Sign, Engineering Grade	131.43	20.83
10 14 53 11-0016	EA	18" x 24" Reflective Steel Stop Sign, Engineering Grade	166.27	22.02
10 14 53 11-0017	EA	24" x 24" Reflective Steel Stop Sign, Engineering Grade	176.53	23.14
10 14 53 11-0018	EA	30" x 30" Reflective Steel Stop Sign, Engineering Grade	255.80	24.33
10 14 53 11-0019	EA	36" x 36" Reflective Steel Stop Sign, Engineering Grade	327.21	25.45

10 14 53 11-0020 Polyethylene Engineer Grade Stop Signs ^(10 14 53 11-0007)

10 14 53 11-0021	EA	18" x 18" Reflective Polyethylene Stop Sign, Engineering Grade	134.76	20.83
10 14 53 11-0022	EA	18" x 24" Reflective Polyethylene Stop Sign, Engineering Grade	174.79	22.02
10 14 53 11-0023	EA	24" x 24" Reflective Polyethylene Stop Sign, Engineering Grade	193.31	23.14
10 14 53 11-0024	EA	30" x 30" Reflective Polyethylene Stop Sign, Engineering Grade	256.57	24.33

10 14 53 11-0025 Other Reflectorized Traffic Signs ^(10 14 53 11-0007)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 11-0026 Aluminum Engineer Grade Traffic Signs ^(10 14 53 11-0025)

10 14 53 11-0027	EA	6" x 12" Aluminum Engineer Grade Traffic Sign	47.51	18.50
		For Hi-Intensity Grade, Add	3.15	
		For Diamond Grade, Add	5.98	
10 14 53 11-0028	EA	6" x 18" Aluminum Engineer Grade Traffic Sign	52.75	18.50
		For Hi-Intensity Grade, Add	4.72	
		For Diamond Grade, Add	8.97	
10 14 53 11-0029	EA	9" x 12" Aluminum Engineer Grade Traffic Sign	52.75	18.50
		For Hi-Intensity Grade, Add	4.72	
		For Diamond Grade, Add	8.97	
10 14 53 11-0030	EA	9" x 15" Aluminum Engineer Grade Traffic Sign	56.68	18.50
		For Hi-Intensity Grade, Add	5.90	
		For Diamond Grade, Add	11.21	
10 14 53 11-0031	EA	9" x 18" Aluminum Engineer Grade Traffic Sign	60.62	18.50
		For Hi-Intensity Grade, Add	7.08	
		For Diamond Grade, Add	13.45	

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0032 EA 9" x 24" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	70.79 9.44 17.93	19.66
10 14 53 11-0033 EA 9" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	102.26 18.88 35.87	19.66
10 14 53 11-0034 EA 12" x 12" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	58.00 6.29 11.96	18.50
10 14 53 11-0035 EA 12" x 18" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	70.79 9.44 17.93	19.66
10 14 53 11-0036 EA 12" x 24" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	81.28 12.59 23.91	19.66
10 14 53 11-0037 EA 12" x 30" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	91.77 15.73 29.89	19.66
10 14 53 11-0038 EA 12" x 36" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	102.26 18.88 35.87	19.66
10 14 53 11-0039 EA 18" x 18" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	86.53 14.16 26.90	19.66
10 14 53 11-0040 EA 18" x 24" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	102.26 18.88 35.87	19.66
10 14 53 11-0041 EA 18" x 30" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	120.30 23.60 44.84	20.83
10 14 53 11-0042 EA 18" x 36" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	136.03 28.32 53.80	20.83
10 14 53 11-0043 EA 18" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	176.76 37.76 71.74	25.45
10 14 53 11-0044 EA 18" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	192.49 42.48 80.71	25.45
10 14 53 11-0045 EA 24" x 24" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	125.54 25.17 47.82	20.83
10 14 53 11-0046 EA 24" x 30" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	146.52 31.46 59.78	20.83
10 14 53 11-0047 EA 24" x 36" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	167.50 37.76 71.74	20.83
10 14 53 11-0048 EA 24" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	197.73 44.05 83.69	25.45
10 14 53 11-0049 EA 24" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	218.71 50.34 95.65	25.45
10 14 53 11-0050 EA 24" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	239.68 56.63 107.60	25.45
10 14 53 11-0051 EA 24" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	260.66 62.93 119.56	25.45
10 14 53 11-0052 EA 30" x 30" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	172.74 39.33 74.73	20.83
10 14 53 11-0053 EA 30" x 36" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	208.22 47.20 89.67	25.45
10 14 53 11-0054 EA 30" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	234.44 55.06 104.62	25.45
10 14 53 11-0055 EA 30" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	269.92 62.93 119.56	30.07
10 14 53 11-0056 EA 30" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	331.60 78.66 149.45	34.71
10 14 53 11-0057 EA 36" x 36" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	239.68 56.63 107.60	25.45
10 14 53 11-0058 EA 36" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	280.41 66.08 125.54	30.07
10 14 53 11-0059 EA 36" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	321.11 75.51 143.47	34.71



Specialties			10
Information Specialties			10 10
Signage			10 14

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
10 14 53 11-0060	EA 36" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	352.58 84.95 161.41		34.71
10 14 53 11-0061	EA 36" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	393.30 94.39 179.34		39.33
10 14 53 11-0062	EA 36" x 73" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	470.73 114.84 218.20		43.95
10 14 53 11-0063	EA 36" x 78" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	496.95 122.71 233.15		43.95
10 14 53 11-0064	EA 36" x 108" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	668.15 169.91 322.82		50.90
10 14 53 11-0065	EA 42" x 42" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	326.36 77.09 146.47		34.71
10 14 53 11-0066	EA 48" x 48" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	414.28 100.69 191.30		39.33
10 14 53 11-0067	EA 48" x 54" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	465.49 113.27 215.21		43.95
10 14 53 11-0068	EA 48" x 60" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	507.44 125.86 239.13		43.95
10 14 53 11-0069	EA 48" x 66" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	563.27 138.44 263.04		50.90
10 14 53 11-0070	EA 48" x 72" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	605.22 151.03 286.95		50.90
10 14 53 11-0071	EA 48" x 84" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	698.38 176.20 334.78		55.52
10 14 53 11-0072	EA 48" x 96" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	782.28 201.37 382.60		55.52
10 14 53 11-0073	EA 48" x 102" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	824.23 213.95 406.51		55.52
10 14 53 11-0074	EA 48" x 108" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	870.81 226.54 430.42		57.83
10 14 53 11-0075	EA 60" x 72" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	740.33 188.78 358.69		55.52
10 14 53 11-0076	EA 72" x 144" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	1,658.33 453.08 860.85		74.04
10 14 53 11-0077	EA 78" x 96" Aluminum Engineer Grade Traffic Sign For Hi-Intensity Grade, Add For Diamond Grade, Add	1,206.43 327.23 621.73		57.83
10 14 53 11-0078	Polyethylene Engineer Grade Traffic Signs (10 14 53 11-0025)			
10 14 53 11-0079	EA 6" x 12" Reflective Polyethylene Traffic Sign	92.92		17.40
10 14 53 11-0080	EA 12" x 12" Reflective Polyethylene Traffic Sign	106.48		18.50
10 14 53 11-0081	EA 12" x 18" Reflective Polyethylene Traffic Sign	114.10		19.71
10 14 53 11-0082	EA 18" x 18" Reflective Polyethylene Traffic Sign	139.70		20.83
10 14 53 11-0083	EA 18" x 24" Reflective Polyethylene Traffic Sign	174.79		22.02
10 14 53 11-0084	EA 24" x 24" Reflective Polyethylene Traffic Sign	197.61		22.02
10 14 53 11-0085	Non-Reflectorized Traffic Signs (10 14 53 11-0006) Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.			
10 14 53 11-0086	Steel Non-Reflectorized Traffic Signs (10 14 53 11-0085)			
10 14 53 11-0087	EA 6" x 12" Steel Non-Reflectorized Traffic Sign.....	45.48		18.50
10 14 53 11-0088	EA 6" x 18" Steel Non-Reflectorized Traffic Sign.....	49.71		18.50
10 14 53 11-0089	EA 9" x 12" Steel Non-Reflectorized Traffic Sign.....	49.71		18.50
10 14 53 11-0090	EA 9" x 15" Steel Non-Reflectorized Traffic Sign.....	52.88		18.50
10 14 53 11-0091	EA 9" x 18" Steel Non-Reflectorized Traffic Sign.....	56.05		18.50
10 14 53 11-0092	EA 9" x 24" Steel Non-Reflectorized Traffic Sign.....	64.70		19.66
10 14 53 11-0093	EA 9" x 48" Steel Non-Reflectorized Traffic Sign.....	90.08		19.66
10 14 53 11-0094	EA 12" x 12" Steel Non-Reflectorized Traffic Sign.....	53.94		18.50
10 14 53 11-0095	EA 12" x 18" Steel Non-Reflectorized Traffic Sign.....	64.70		19.66
10 14 53 11-0096	EA 12" x 24" Steel Non-Reflectorized Traffic Sign.....	73.16		19.66
10 14 53 11-0097	EA 12" x 30" Steel Non-Reflectorized Traffic Sign.....	81.62		19.66
10 14 53 11-0098	EA 12" x 36" Steel Non-Reflectorized Traffic Sign.....	90.08		19.66
10 14 53 11-0099	EA 18" x 18" Steel Non-Reflectorized Traffic Sign.....	77.39		19.66
10 14 53 11-0100	EA 18" x 24" Steel Non-Reflectorized Traffic Sign.....	90.08		19.66

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

10 14 53 11-0101	EA	18" x 30" Steel Non-Reflectorized Traffic Sign	105.07	20.83
10 14 53 11-0102	EA	18" x 36" Steel Non-Reflectorized Traffic Sign	117.76	20.83
10 14 53 11-0103	EA	18" x 48" Steel Non-Reflectorized Traffic Sign	152.39	25.45
10 14 53 11-0104	EA	18" x 54" Steel Non-Reflectorized Traffic Sign	165.08	25.45
10 14 53 11-0105	EA	24" x 24" Steel Non-Reflectorized Traffic Sign	109.30	20.83
10 14 53 11-0106	EA	24" x 30" Steel Non-Reflectorized Traffic Sign	126.22	20.83
10 14 53 11-0107	EA	24" x 36" Steel Non-Reflectorized Traffic Sign	143.13	20.83
10 14 53 11-0108	EA	24" x 42" Steel Non-Reflectorized Traffic Sign	169.31	25.45
10 14 53 11-0109	EA	24" x 48" Steel Non-Reflectorized Traffic Sign	186.22	25.45
10 14 53 11-0110	EA	24" x 54" Steel Non-Reflectorized Traffic Sign	203.14	25.45
10 14 53 11-0111	EA	24" x 60" Steel Non-Reflectorized Traffic Sign	220.05	25.45
10 14 53 11-0112	EA	30" x 30" Steel Non-Reflectorized Traffic Sign	147.36	20.83
10 14 53 11-0113	EA	30" x 36" Steel Non-Reflectorized Traffic Sign	177.77	25.45
10 14 53 11-0114	EA	30" x 42" Steel Non-Reflectorized Traffic Sign	198.91	25.45
10 14 53 11-0115	EA	30" x 48" Steel Non-Reflectorized Traffic Sign	229.31	30.07
10 14 53 11-0116	EA	30" x 60" Steel Non-Reflectorized Traffic Sign	280.84	34.71
10 14 53 11-0117	EA	36" x 36" Steel Non-Reflectorized Traffic Sign	203.14	25.45
10 14 53 11-0118	EA	36" x 42" Steel Non-Reflectorized Traffic Sign	237.77	30.07
10 14 53 11-0119	EA	36" x 48" Steel Non-Reflectorized Traffic Sign	272.39	34.71
10 14 53 11-0120	EA	36" x 54" Steel Non-Reflectorized Traffic Sign	297.76	34.71
10 14 53 11-0121	EA	36" x 60" Steel Non-Reflectorized Traffic Sign	332.39	39.33
10 14 53 11-0122	EA	36" x 73" Steel Non-Reflectorized Traffic Sign	396.63	43.95
10 14 53 11-0123	EA	36" x 78" Steel Non-Reflectorized Traffic Sign	417.77	43.95
10 14 53 11-0124	EA	36" x 108" Steel Non-Reflectorized Traffic Sign	558.52	50.90
10 14 53 11-0125	EA	42" x 42" Steel Non-Reflectorized Traffic Sign	276.61	34.71
10 14 53 11-0126	EA	48" x 48" Steel Non-Reflectorized Traffic Sign	349.31	39.33
10 14 53 11-0127	EA	48" x 54" Steel Non-Reflectorized Traffic Sign	392.40	43.95
10 14 53 11-0128	EA	48" x 60" Steel Non-Reflectorized Traffic Sign	426.23	43.95
10 14 53 11-0129	EA	48" x 66" Steel Non-Reflectorized Traffic Sign	473.94	50.90
10 14 53 11-0130	EA	48" x 72" Steel Non-Reflectorized Traffic Sign	507.77	50.90
10 14 53 11-0131	EA	48" x 84" Steel Non-Reflectorized Traffic Sign	584.68	55.52
10 14 53 11-0132	EA	48" x 96" Steel Non-Reflectorized Traffic Sign	652.35	55.52
10 14 53 11-0133	EA	48" x 102" Steel Non-Reflectorized Traffic Sign	686.18	55.52
10 14 53 11-0134	EA	48" x 108" Steel Non-Reflectorized Traffic Sign	724.64	57.83
10 14 53 11-0135	EA	60" x 72" Steel Non-Reflectorized Traffic Sign	618.51	55.52
10 14 53 11-0136	EA	72" x 144" Steel Non-Reflectorized Traffic Sign	1,365.97	74.04
10 14 53 11-0137	EA	78" x 96" Steel Non-Reflectorized Traffic Sign	995.28	57.83

10 14 53 11-0138 Aluminum Non-Reflectorized Traffic Signs (10 14 53 11-0085)

10 14 53 11-0139	EA	6" x 12" Aluminum Non-Reflectorized Traffic Sign	45.82	18.50
10 14 53 11-0140	EA	6" x 18" Aluminum Non-Reflectorized Traffic Sign	50.22	18.50
10 14 53 11-0141	EA	9" x 12" Aluminum Non-Reflectorized Traffic Sign	50.22	18.50
10 14 53 11-0142	EA	9" x 15" Aluminum Non-Reflectorized Traffic Sign	53.52	18.50
10 14 53 11-0143	EA	9" x 18" Aluminum Non-Reflectorized Traffic Sign	56.83	18.50
10 14 53 11-0144	EA	9" x 24" Aluminum Non-Reflectorized Traffic Sign	65.74	19.66
10 14 53 11-0145	EA	9" x 48" Aluminum Non-Reflectorized Traffic Sign	92.14	19.66
10 14 53 11-0146	EA	12" x 12" Aluminum Non-Reflectorized Traffic Sign	54.62	18.50
10 14 53 11-0147	EA	12" x 18" Aluminum Non-Reflectorized Traffic Sign	65.74	19.66
10 14 53 11-0148	EA	12" x 24" Aluminum Non-Reflectorized Traffic Sign	74.54	19.66
10 14 53 11-0149	EA	12" x 30" Aluminum Non-Reflectorized Traffic Sign	83.34	19.66
10 14 53 11-0150	EA	12" x 36" Aluminum Non-Reflectorized Traffic Sign	92.14	19.66
10 14 53 11-0151	EA	18" x 18" Aluminum Non-Reflectorized Traffic Sign	78.94	19.66
10 14 53 11-0152	EA	18" x 24" Aluminum Non-Reflectorized Traffic Sign	92.14	19.66
10 14 53 11-0153	EA	18" x 30" Aluminum Non-Reflectorized Traffic Sign	107.66	20.83
10 14 53 11-0154	EA	18" x 36" Aluminum Non-Reflectorized Traffic Sign	120.86	20.83
10 14 53 11-0155	EA	18" x 48" Aluminum Non-Reflectorized Traffic Sign	156.53	25.45
10 14 53 11-0156	EA	18" x 54" Aluminum Non-Reflectorized Traffic Sign	169.73	25.45
10 14 53 11-0157	EA	24" x 24" Aluminum Non-Reflectorized Traffic Sign	112.06	20.83
10 14 53 11-0158	EA	24" x 30" Aluminum Non-Reflectorized Traffic Sign	129.66	20.83
10 14 53 11-0159	EA	24" x 36" Aluminum Non-Reflectorized Traffic Sign	147.27	20.83
10 14 53 11-0160	EA	24" x 42" Aluminum Non-Reflectorized Traffic Sign	174.13	25.45
10 14 53 11-0161	EA	24" x 48" Aluminum Non-Reflectorized Traffic Sign	191.74	25.45
10 14 53 11-0162	EA	24" x 54" Aluminum Non-Reflectorized Traffic Sign	209.34	25.45
10 14 53 11-0163	EA	24" x 60" Aluminum Non-Reflectorized Traffic Sign	226.95	25.45
10 14 53 11-0164	EA	30" x 30" Aluminum Non-Reflectorized Traffic Sign	151.67	20.83
10 14 53 11-0165	EA	30" x 36" Aluminum Non-Reflectorized Traffic Sign	182.94	25.45
10 14 53 11-0166	EA	30" x 42" Aluminum Non-Reflectorized Traffic Sign	204.94	25.45
10 14 53 11-0167	EA	30" x 48" Aluminum Non-Reflectorized Traffic Sign	236.21	30.07
10 14 53 11-0168	EA	30" x 60" Aluminum Non-Reflectorized Traffic Sign	289.46	34.71
10 14 53 11-0169	EA	36" x 36" Aluminum Non-Reflectorized Traffic Sign	209.34	25.45
10 14 53 11-0170	EA	36" x 42" Aluminum Non-Reflectorized Traffic Sign	245.01	30.07
10 14 53 11-0171	EA	36" x 48" Aluminum Non-Reflectorized Traffic Sign	280.66	34.71
10 14 53 11-0172	EA	36" x 54" Aluminum Non-Reflectorized Traffic Sign	307.06	34.71
10 14 53 11-0173	EA	36" x 60" Aluminum Non-Reflectorized Traffic Sign	342.73	39.33
10 14 53 11-0174	EA	36" x 73" Aluminum Non-Reflectorized Traffic Sign	409.21	43.95
10 14 53 11-0175	EA	36" x 78" Aluminum Non-Reflectorized Traffic Sign	431.21	43.95
10 14 53 11-0176	EA	36" x 108" Aluminum Non-Reflectorized Traffic Sign	577.13	50.90
10 14 53 11-0177	EA	42" x 42" Aluminum Non-Reflectorized Traffic Sign	285.06	34.71
10 14 53 11-0178	EA	48" x 48" Aluminum Non-Reflectorized Traffic Sign	360.34	39.33
10 14 53 11-0179	EA	48" x 54" Aluminum Non-Reflectorized Traffic Sign	404.81	43.95



Specialties			10
Information Specialties			10 10
Signage			10 14

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0180	EA	48" x 60" Aluminum Non-Reflectorized Traffic Sign.....	440.02	43.95
10 14 53 11-0181	EA	48" x 66" Aluminum Non-Reflectorized Traffic Sign.....	489.11	50.90
10 14 53 11-0182	EA	48" x 72" Aluminum Non-Reflectorized Traffic Sign.....	524.32	50.90
10 14 53 11-0183	EA	48" x 84" Aluminum Non-Reflectorized Traffic Sign.....	603.98	55.52
10 14 53 11-0184	EA	48" x 96" Aluminum Non-Reflectorized Traffic Sign.....	674.40	55.52
10 14 53 11-0185	EA	48" x 102" Aluminum Non-Reflectorized Traffic Sign.....	709.61	55.52
10 14 53 11-0186	EA	48" x 108" Aluminum Non-Reflectorized Traffic Sign.....	749.45	57.83
10 14 53 11-0187	EA	60" x 72" Aluminum Non-Reflectorized Traffic Sign.....	639.19	55.52
10 14 53 11-0188	EA	72" x 144" Aluminum Non-Reflectorized Traffic Sign.....	1,415.61	74.04
10 14 53 11-0189	EA	78" x 96" Aluminum Non-Reflectorized Traffic Sign.....	1,031.13	57.83
10 14 53 11-0190 Polyethylene Non-Reflectorized Traffic Signs (10 14 53 11-0085)				
10 14 53 11-0191	EA	6" x 12" Non-Reflective Polyethylene Traffic Sign	76.50	17.40
10 14 53 11-0192	EA	12" x 12" Non-Reflective Polyethylene Traffic Sign	83.98	18.50
10 14 53 11-0193	EA	12" x 18" Non-Reflective Polyethylene Traffic Sign	90.63	19.71
10 14 53 11-0194	EA	18" x 18" Non-Reflective Polyethylene Traffic Sign	122.92	20.83
10 14 53 11-0195	EA	18" x 24" Non-Reflective Polyethylene Traffic Sign	131.96	22.02
10 14 53 11-0196	EA	24" x 24" Non-Reflective Polyethylene Traffic Sign	154.82	23.14
10 14 53 11-0197 Signs For Overhead Sign Structures (10 14 53 11-0006)				
Note: Including horizontal Z-bars.				
10 14 53 11-0198	SF	From 30 To 360 SF Signs For Overhead Sign Structures	25.00	
		For Over 10' High, Add	13.00	
10 14 53 11-0199	VLF	Vertical Sign Hangers For Overhead Sign Structures, Per Hanger	32.50	
Note: Includes U-bolts, vertical aluminum Z-bars, clip angles and stainless steel hardware.				
10 14 53 11-0200 Flashing Beacon (10 14 53 11-0006)				
10 14 53 11-0201	EA	8" Diameter LED Flashing Beacon	1,392.80	208.14
Note: Excludes sign and post				
10 14 53 11-0202 Rectangular Rapid Flashing Beacons (RRFB) (10 14 53 11-0006)				
10 14 53 11-0203	EA	2.5"(h) x 17.5"(w) x 2.75"(d), Solar Powered, Single, LED Rectangular Rapid Flashing Beacon (RRFB)	1,700.21	208.14
Note: Includes standard push button, 20 watt solar panel, 12v/22 AH battery, lockable control cabinet. Excludes sign and post				
10 14 53 11-0204	EA	3.5"(h) x 20"(w) x 3"(d) LED Rectangular Rapid Flashing Beacons (RRFB), Solar Powered, Back To Back.....	3,596.28	208.14
Note: Includes standard push button, 20 watt solar panel, 12v/22 AH battery, lockable control cabinet. Excludes sign and post				
10 14 53 11-0205 Aluminum Street Signs (10 14 53 11-0006)				
Note: Excludes posts.				
10 14 53 11-0206 Aluminum Engineer Grade Street Signs (10 14 53 11-0205)				
10 14 53 11-0207	EA	6" High, Aluminum Engineer Grade Street Sign	105.24	9.26
		For Diamond Grade, Add	49.44	
10 14 53 11-0208	EA	8" High, Aluminum Engineer Grade Street Sign	120.55	9.26
		For Diamond Grade, Add	58.17	
10 14 53 11-0209	EA	9" High, Aluminum Engineer Grade Street Sign	131.94	9.26
		For Diamond Grade, Add	64.66	
10 14 53 11-0210 Street Sign Accessories (10 14 53 11-0205)				
10 14 53 11-0211	EA	Single Bracket And Post Cap For Street Sign	30.12	4.62
10 14 53 11-0212	EA	Double Bracket And Post Cap For Street Sign	30.12	4.62
10 14 53 11-0213 Sign Posts (10 14 53 11-0006)				
Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill., 32 31 13 13-0019 for concrete fill.				
10 14 53 11-0214 U-Channel Sign Posts (10 14 53 11-0213)				
Note: Excludes digging and concrete.				
10 14 53 11-0215 Baked Enamel U-Channel Sign Posts (10 14 53 11-0214)				
10 14 53 11-0216	EA	3' To 4' Baked Enamel U-Channel Sign Post Base	74.01	18.90
10 14 53 11-0217	EA	6' Baked Enamel U-Channel Sign Post	98.16	23.63
10 14 53 11-0218	EA	7' Baked Enamel U-Channel Sign Post	117.08	28.35
10 14 53 11-0219	EA	8' Baked Enamel U-Channel Sign Post	137.20	33.07
10 14 53 11-0220	EA	10' Baked Enamel U-Channel Sign Post	165.32	40.17
10 14 53 11-0221	EA	12' Baked Enamel U-Channel Sign Post	171.12	40.17
10 14 53 11-0222 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0214)				
10 14 53 11-0223	EA	3' To 4' Galvanized Steel U-Channel Sign Post Base.....	81.47	18.90
10 14 53 11-0224	EA	6' Galvanized Steel U-Channel Sign Post.....	110.01	23.63
10 14 53 11-0225	EA	7' Galvanized Steel U-Channel Sign Post.....	143.86	28.35
10 14 53 11-0226	EA	8' Galvanized Steel U-Channel Sign Post.....	166.80	33.07
10 14 53 11-0227	EA	10' Galvanized Steel U-Channel Sign Post.....	186.88	40.17

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0228 EA 12' Galvanized Steel U-Channel Sign Post.....	189.88	40.17
10 14 53 11-0229 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0214)		
10 14 53 11-0230 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	72.25	18.90
10 14 53 11-0231 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	94.34	23.63
10 14 53 11-0232 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	112.46	28.35
10 14 53 11-0233 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	131.69	33.07
10 14 53 11-0234 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	155.33	40.17
10 14 53 11-0235 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	165.20	40.17
10 14 53 11-0236 Tubular Sign Posts (10 14 53 11-0213)		
Note: Excludes digging and concrete.		
10 14 53 11-0237 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0236)		
10 14 53 11-0238 EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	111.23	23.63
10 14 53 11-0239 EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	131.70	28.35
10 14 53 11-0240 EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	155.95	33.07
10 14 53 11-0241 EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	203.08	40.17
10 14 53 11-0242 EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	223.41	40.17
10 14 53 11-0243 Square Sign Posts (10 14 53 11-0213)		
Note: Excludes digging and concrete.		
10 14 53 11-0244 Galvanized Steel Square Sign Posts (10 14 53 11-0243)		
10 14 53 11-0245 EA 3' To 4' Galvanized Steel Square Sign Post Base.....	83.13	18.90
10 14 53 11-0246 EA 6' Galvanized Steel Square Sign Post.....	138.05	23.63
10 14 53 11-0247 EA 7' Galvanized Steel Square Sign Post.....	161.31	28.35
10 14 53 11-0248 EA 8' Galvanized Steel Square Sign Post.....	188.16	33.07
10 14 53 11-0249 EA 10' Galvanized Steel Square Sign Post.....	229.96	40.17
10 14 53 11-0250 EA 12' Galvanized Steel Square Sign Post.....	244.16	40.17
10 14 53 11-0251 Other Sign Posts And Bases (10 14 53 11-0006)		
Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		
10 14 53 11-0252 2.5 Lb./FT Breakaway Sign Posts And Base Posts (10 14 53 11-0251)		
10 14 53 11-0253 Base Posts, 2.5 Lb./LF, For Breakaway Sign Posts (10 14 53 11-0252)		
10 14 53 11-0254 EA Base Post For 2.5 Lb./LF Breakaway Sign Post.....	97.27	23.14
10 14 53 11-0255 EA Lap Splice Hardware For 2.5 Lb./LF Breakaway Sign Post.....	60.25	18.50
10 14 53 11-0256 Breakaway Sign Posts, 2.5 Lb./LF (10 14 53 11-0252)		
10 14 53 11-0257 LF 2.5 Lb./LF Breakaway Sign Post.....	12.61	2.31
10 14 53 11-0258 4 Lb./FT Breakaway Sign Posts And Base Posts (10 14 53 11-0251)		
10 14 53 11-0259 Base Posts, 4 Lb./LF, For Breakaway Sign Posts (10 14 53 11-0258)		
10 14 53 11-0260 EA Base Post For 4 Lb./LF Breakaway Sign Post.....	101.91	27.76
10 14 53 11-0261 EA Lap Splice Hardware for 4 Lb./LF Breakaway Sign Post.....	60.25	18.50
10 14 53 11-0262 Breakaway Sign Posts, 4 Lb./LF (10 14 53 11-0258)		
10 14 53 11-0263 LF 4 Lb./LF Breakaway Sign Post.....	15.49	2.31
10 14 53 11-0264 Driven Sign Posts (10 14 53 11-0251)		
10 14 53 11-0265 Driven Posts, 2.5 Lb./LF (10 14 53 11-0264)		
10 14 53 11-0266 LF 2.5 Lb./LF Driven Post.....	13.54	3.24
10 14 53 11-0267 Driven Posts, 4 Lb./LF (10 14 53 11-0264)		
10 14 53 11-0268 LF 4 Lb./LF Driven Post.....	16.88	3.70
10 14 53 11-0269 Omni-Directional Breakaway System For Sign Posts And Light Poles (10 14 53 11-0251)		
10 14 53 11-0270 Omni-Directional Breakaway Systems For Signs (10 14 53 11-0269)		
Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, sleeve, all associated parts and drilling.		
10 14 53 11-0271 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	1,469.95	
10 14 53 11-0272 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	1,566.22	
10 14 53 11-0273 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo A14 And A16).....	1,073.76	
10 14 53 11-0274 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	940.47	
10 14 53 11-0275 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4).....	1,066.36	
10 14 53 11-0276 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	1,014.52	



Specialties			10
Information Specialties			10 10
Signage			10 14

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0277	EA	Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....		1,099.68	
10 14 53 11-0278		Omni-Directional Breakaway Systems For Poles (10 14 53 11-0269) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retrofitting existing poles.			
10 14 53 11-0279	EA	Omni-Directional Breakaway System For Poles With 5/8" Couplings.....		495.45	
10 14 53 11-0280	EA	Omni-Directional Breakaway System For Poles With 3/4" Couplings.....		519.43	
10 14 53 11-0281	EA	Omni-Directional Breakaway System For Poles With 1" Couplings.....		539.41	
10 14 53 11-0282	EA	Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....		819.09	
10 14 53 11-0283	EA	Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....		71.92	
10 14 53 11-0284	EA	Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20"		95.89	
10 14 53 11-0285		Wood Posts (10 14 53 11-0251) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.			
10 14 53 11-0286	LF	4" x 4" Pressure Treated Wood Sign Post.....		11.27	
10 14 53 11-0287		Sign Post Accessories (10 14 53 11-0006)			
10 14 53 11-0288		Sign Post Brackets (10 14 53 11-0287)			
10 14 53 11-0289	EA	2-3/8" Outside Diameter, Single Side Sign Bracket Set.....		61.35	6.95
		Note: Includes 2 single side signpost brackets			
10 14 53 11-0290	EA	2-3/8" Outside Diameter, Double Side Sign Bracket Set		80.18	11.57
		Note: Includes 2 double side signpost brackets			
10 14 53 11-0291	EA	4" To 12" Diameter, Buckle Bracket Set		73.47	9.26
		Note: Includes 2 stainless steel straps, 2 brackets and fastener hardware			
10 14 53 11-0292		Sign Post Caps (10 14 53 11-0287)			
10 14 53 11-0293	EA	2-3/8" Diameter, Galvanized, Flat Traffic Sign Post Cap (EC-2).....		26.96	4.62
10 14 53 11-0294		Sign Post Replacement Bolts (10 14 53 11-0287)			
10 14 53 11-0295	EA	Signage Fasteners Replacement.....		17.75	
		Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers			
10 14 53 11-0296		Reflective Panels For "U" Channel Post (10 14 53 11-0287)			
10 14 53 11-0297	EA	3" x 72" Reflective Panel For "U-Channel" Post		83.44	
		Note: Diamond grade panel including mounting hardware.			
10 14 53 11-0298		Removal Of Signs (10 14 53 11) Note: Includes structural supports and foundations.			
10 14 53 11-0299	EA	>4 To 10 SF Sign Area, Sign Removal		185.08	
10 14 53 11-0300	EA	>10 To 20 SF Sign Area, Sign Removal		444.20	
10 14 53 11-0301	EA	>20 To 40 SF Sign Area, Sign Removal		666.31	
10 14 53 11-0302	EA	>40 To 100 SF Sign Area, Sign Removal		1,110.35	
10 14 53 11-0303		Removal And Reinstallation Of Signs (10 14 53 11) Note: Includes structural supports and foundations			
10 14 53 11-0304	EA	>4 To 10 SF Sign Area, Removal And Reinstallation Of Sign		284.14	
10 14 53 11-0305	EA	>10 To 20 SF Sign Area, Removal And Reinstallation Of Sign		670.95	
10 14 53 11-0306	EA	>20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign		1,003.41	
10 14 53 11-0307	EA	>40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign		1,669.18	
10 14 53 11-0308	EA	Removal And Reinstallation Of Street Sign On Post		106.42	
10 14 53 11-0309	EA	Removal And Relocation Of Traffic Light.....		392.97	
		Note: Excludes electrical hookup.			
10 80 Other Specialties (10)					
10 81 Pest Control Devices (10 80)					
10 81 13 Bird Control Devices (10 81)					
10 81 13 00-0001		Stainless Steel Spiked Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base.			
10 81 13 00-0002	LF	2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....		11.04	1.09
10 81 13 00-0003	LF	4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....		13.33	1.09
10 81 13 00-0004	LF	8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System		19.64	1.09
10 81 13 00-0005		Polycarbonate Spiked Bird Barrier (10 81 13) Note: Polycarbonate spikes and base.			
10 81 13 00-0006	LF	3" Wide Polycarbonate Spikes And Base Bird Deterrent System		10.20	1.09
10 81 13 00-0007	LF	5" Wide Polycarbonate Spikes And Base Bird Deterrent System		12.36	1.09

10	10	Specialties
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
10 81 13 00-0008	LF	8" Wide Polycarbonate Spikes And Base Bird Deterrent System	14.75		1.09
10 81 13 00-0009		Spiked Gutter Or Girder Bird Barrier (10 81 13) Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.			
10 81 13 00-0010	LF	Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application	11.70		1.09
10 81 13 00-0011		Coil Bird Barrier (10 81 13) Note: Stainless steel coil.			
10 81 13 00-0012	LF	4" Diameter Stainless Steel Coil Bird Deterrent System	8.27		1.09
10 81 13 00-0013	LF	5" Diameter Stainless Steel Coil Bird Deterrent System	9.77		1.09
10 81 13 00-0014		Spider Bird Barrier (10 81 13) Note: Stainless steel arms with various bases.			
10 81 13 00-0015	EA	2' Diameter Stainless Steel Spider Bird Deterrent System	145.37		1.09
10 81 13 00-0016	EA	4' Diameter Stainless Steel Spider Bird Deterrent System	213.83		1.09
10 81 13 00-0017	EA	8' Diameter Stainless Steel Spider Bird Deterrent System	269.19		1.09
10 81 13 00-0018		Oriented Flexible Flame-resistant Netting (10 81 13) Note: Includes stainless steel rings and plastic ties.			
10 81 13 00-0019	SF	1/8" x 1/8" Mesh Flexible Polypropylene Netting	1.09		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0020	SF	1/4" x 1/4" Mesh Flexible Polypropylene Netting	1.05		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0021	SF	1/2" x 1/2" Mesh Flexible Polypropylene Netting	1.01		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0022	SF	3/4" x 3/4" Mesh Flexible Polypropylene Netting	0.97		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0023	SF	1" x 1" Mesh Flexible Polypropylene Netting	0.97		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0024	SF	1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting	0.95		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0025	SF	2" x 2" Mesh Flexible Polypropylene Netting	0.92		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0026	SF	3" x 3" Mesh Flexible Polypropylene Netting	0.92		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0027	SF	4" x 4" Mesh Flexible Polypropylene Netting	0.88		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0028	SF	5/8" x 3/4" Mesh Flexible Polypropylene Netting	0.99		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0029	SF	1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting	0.93		0.37
		Note: To control bird and marine predators.			
10 81 13 00-0030	EA	Poly Clips For Flexible Netting	3.23		
10 81 13 00-0031		Netting Accessories (10 81 13)			
10 81 13 00-0032	EA	2' Zipper For Flexible Netting	9.40		
10 81 13 00-0033	EA	4' Zipper For Flexible Netting	14.16		
10 81 13 00-0034	EA	6' Zipper For Flexible Netting	16.66		
10 81 13 00-0035	EA	8' Zipper For Flexible Netting	23.68		
10 81 16		Insect Control Devices (10 81)			
10 81 16 00-0001		Insect Screening (10 81 16)			
10 81 16 00-0002	CSF	17/14 Mesh Insect Screening With Flat Screen Splines	143.52		

END OF SECTION 10



Equipment		11	11
Entertainment and Recreation Equipment		11 60	
Play Field Equipment and Structures		11 68	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

11 Equipment

11 60 Entertainment and Recreation Equipment ⁽¹¹⁾

11 68 Play Field Equipment and Structures ^(11 60)

11 68 13 Playground Equipment ^(11 68)

See CSI section 32 31 13 13-0001 for augering holes and fill for posts.

11 68 13 00-0001		Standalone Playground Equipment ^(11 68 13)		
11 68 13 00-0002		Ground Socket For Movable Posts ^(11 68 13 00-0001)		
11 68 13 00-0003	PR	Ground Socket For 2-3/8" Post For Playground Equipment	292.18	62.93
11 68 13 00-0004	PR	Ground Socket For 3-1/2" Post For Playground Equipment	445.40	62.93
11 68 13 00-0005		See-Saws ^(11 68 13 00-0001)		
11 68 13 00-0006		Steel See-Saw ^(11 68 13 00-0005)		
11 68 13 00-0007	EA	2 Unit Steel See-Saw	2,448.01	387.28
11 68 13 00-0008	EA	4 Unit Steel See-Saw	3,948.98	457.68
11 68 13 00-0009	EA	6 Unit Steel See-Saw	5,468.30	559.40
11 68 13 00-0010		14' Long Laminated Beam ^(11 68 13 00-0005)		
11 68 13 00-0011	EA	Beam Is Supported By Two 12 In x 12 In Stepping Column Posts	2,588.52	342.44
11 68 13 00-0012	EA	Beam Is Supported By Two 8 In x 8 In Posts	1,798.64	305.05
11 68 13 00-0013		Slides ^(11 68 13 00-0001)		
11 68 13 00-0014	EA	8' Long x 4' High Slide With Stainless Steel Bed	2,938.70	442.86
11 68 13 00-0015	EA	12' Long x 6' High Slide With Stainless Steel Bed	4,119.41	629.32
11 68 13 00-0016	EA	16' Long x 8' High Slide With Stainless Steel Bed	4,562.64	699.24
11 68 13 00-0017	EA	20' Long x 10' High Slide With Stainless Steel Bed	5,717.85	774.58
11 68 13 00-0018	EA	6' High, 360 Degree One Piece Molded Polyethylene Slide	18,387.98	1,218.46
11 68 13 00-0019	EA	7' High, 360 Degree Slide, Stainless Steel Bed	17,711.30	1,256.97
11 68 13 00-0020	EA	9' High, 360 Degree Slide, Stainless Steel Bed	22,269.28	1,321.11
11 68 13 00-0021		Whirlers ^(11 68 13 00-0001)		
11 68 13 00-0022	EA	8' Diameter Whirler	6,570.13	839.09
11 68 13 00-0023	EA	10' Diameter Whirler	7,633.03	1,006.91
11 68 13 00-0024		Other Standalone Playground Equipment ^(11 68 13 00-0001)		
11 68 13 00-0025		Miscellaneous Standalone Playground Equipment ^(11 68 13 00-0024)		
11 68 13 00-0026	EA	Horizontal Ladder	2,086.92	224.22
11 68 13 00-0027	EA	Tether Ball Post	355.43	43.82
11 68 13 00-0028	PR	10'-6" Long Multiple Purpose Post	543.55	77.48
11 68 13 00-0029	EA	3-Person Fiberglass Golf Tee Shelter Turntable	9,608.67	218.91
11 68 13 00-0030	EA	Horizontal Turning Bars, 1 Bar	668.56	117.00
11 68 13 00-0031	EA	Horizontal Turning Bars, 2 Bars	902.55	139.84
11 68 13 00-0032	EA	Horizontal Turning Bars, 3 Bars	1,216.78	186.47
11 68 13 00-0033	EA	Horizontal Turning Bars, 5 Bars	1,778.54	256.39
11 68 13 00-0034	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole	1,855.19	106.75
11 68 13 00-0035	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole	2,042.45	115.24
11 68 13 00-0036	EA	Coil Spring With Single Riding Aluminum Saddle Devices	1,998.98	123.53
11 68 13 00-0037	EA	"C" Spring With Single Riding Aluminum Saddle Devices	2,225.44	106.28
11 68 13 00-0038	EA	Rubber Spring With Single Riding Aluminum Saddle Devices	2,739.02	139.19
11 68 13 00-0039	EA	Coil Spring Assembly Only	509.55	51.19
11 68 13 00-0040	EA	"C" Spring Assembly Only	338.59	34.12
11 68 13 00-0041	EA	Rubber Spring Assembly Only	262.83	66.56
11 68 13 00-0042	EA	Footbuck Assembly Only	88.00	8.95
11 68 13 00-0043	EA	Two Seat, Two Spring Action Cars (4'-8" x 2'-8")	2,271.58	128.01
11 68 13 00-0044		Freestanding Panels ^(11 68 13 00-0024)		
		Note: Rotomolded polyethylene.		
11 68 13 00-0045	EA	Tic-Tac-Toe Panel	967.29	54.82
11 68 13 00-0046	EA	24" Bubble Panel	1,449.05	82.13
11 68 13 00-0047	EA	Fire Engine Panel	2,126.52	120.55
11 68 13 00-0048	EA	Flat Mirror Panel	1,701.23	96.49
11 68 13 00-0049	EA	Wavy Mirror Panel	2,517.95	142.83
11 68 13 00-0050	EA	Paint Time Panel	1,633.47	92.67
11 68 13 00-0051	EA	Phone Time Panel	1,159.23	65.73
11 68 13 00-0052	EA	Phone Time With Graphic Panel	1,159.23	65.73
11 68 13 00-0053	EA	Race Time Panel	2,032.41	115.24
11 68 13 00-0054	EA	Rescue 911 Panel	2,062.45	115.24

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment and Structures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0055	EA		Eastern/Central/Western States Panel	1,110.31	62.93
11 68 13 00-0056	EA		Career People Panel.....	1,260.84	71.50
11 68 13 00-0057	EA		Solar System Panel	1,260.84	71.50
11 68 13 00-0058	EA		Animals Panel.....	1,260.84	71.50
11 68 13 00-0059			Freestanding Panels Uprights (11 68 13 00-0024)		
11 68 13 00-0060	EA		3-1/2" Outside Diameter End Panel Upright.....	301.71	30.76
11 68 13 00-0061	EA		3-1/2" Outside Diameter 90 Degree Upright	326.86	33.29
11 68 13 00-0062	EA		3-1/2" Outside Diameter 180 Degree Upright	326.86	33.29
11 68 13 00-0063	EA		3-1/2" Outside Diameter "T-Shaped" Upright.....	347.81	35.43
11 68 13 00-0064			Coasters (11 68 13 00-0024)		
11 68 13 00-0065	EA		12' Single Metal Coaster With Four Posts	7,476.66	372.92
11 68 13 00-0066	EA		18' Single Metal Coaster With Four Posts	8,366.35	466.16
11 68 13 00-0067	EA		12' Double Metal Coaster With Four Posts	12,089.14	559.39
11 68 13 00-0068	EA		18' Double Metal Coaster With Four Posts.....	13,755.46	699.23
11 68 13 00-0069			Climbers (11 68 13 00-0024)		
11 68 13 00-0070	EA		Tower Climber, 3.17' Diameter x 7.25' High.....	1,391.51	249.11
11 68 13 00-0071	EA		Arch Climber, 2' x 12' x 4.5' High	1,270.38	305.05
11 68 13 00-0072	EA		Arch Climber, 2' x 15' x 5.83' High	1,377.46	249.11
11 68 13 00-0073	EA		Arch Climber, 2' x 17' x 6.58' High	1,478.86	305.05
11 68 13 00-0074	EA		Rainbow Climber, 2' x 10'-5" x 4' High	1,582.31	248.83
11 68 13 00-0075	EA		Rainbow Climber, 2' x 10'-5" x 5' High	1,770.01	248.92
11 68 13 00-0076	EA		Rainbow Climber, 2' x 12'-5" x 6' High	2,057.58	248.92
11 68 13 00-0077	EA		Rainbow Climber, 2' x 15'-4" x 7' High	2,245.59	248.83
11 68 13 00-0078	EA		Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section.....	2,708.42	291.35
11 68 13 00-0079	EA		12' Long Horizontal Ladder Climber.....	2,203.18	217.51
11 68 13 00-0080	EA		14' Long Horizontal Ladder Climber.....	2,234.81	217.51
11 68 13 00-0081	EA		16' Long Horizontal Ladder Climber.....	2,444.28	217.51
11 68 13 00-0082	EA		Bell Climber, 7'-5" High With Double Bars	2,307.35	279.69
11 68 13 00-0083	EA		2-Way Climber.....	1,937.72	224.22
11 68 13 00-0084	EA		4-Way Climber.....	3,074.80	224.22
11 68 13 00-0085			Swings (11 68 13 00-0001)		
11 68 13 00-0086			Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0085)		
Note: Legs, 1-7/8" diameter, traditional.					
11 68 13 00-0087	EA		8' High Top Rail, One Section Two Seats.....	1,827.71	342.44
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	212.15	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	238.27	
11 68 13 00-0088	EA		8' High Top Rail, Two Sections Four Seats	2,914.97	490.03
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	339.90	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	387.74	
11 68 13 00-0089	EA		8' High Top Rail, Three Sections, Six Seats	4,034.03	721.06
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	469.91	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	534.21	
11 68 13 00-0090	EA		8' High Top Rail, Four Sections, Eight Seats	5,054.03	839.09
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	589.79	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	674.63	
11 68 13 00-0091	EA		10' High Top Rail, One Section Two Seats	1,948.88	342.44
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	227.29	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	259.48	
11 68 13 00-0092	EA		10' High Top Rail, Two Section Four Seats	3,047.70	521.92
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	354.15	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	399.30	
11 68 13 00-0093	EA		10' High Top Rail, Three Sections, Six Seats	4,210.10	810.47
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	487.65	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	543.73	
11 68 13 00-0094	EA		10' High Top Rail, Four Sections, Eight Seats	5,575.23	978.95
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	647.94	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	730.83	
11 68 13 00-0095			Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0085)		
Note: Legs, 1-7/8" diameter, traditional.					
11 68 13 00-0096	EA		8' High Top Rail, One Section, Two Seats.....	2,089.87	302.45
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	246.11	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	290.11	
11 68 13 00-0097	EA		8' High Top Rail, Two Sections, Four Seats	3,033.28	438.84
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	357.22	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	421.12	
11 68 13 00-0098	EA		8' High Top Rail, Three Sections, Six Seats	4,046.84	586.90
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	476.51	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	561.47	
11 68 13 00-0099	EA		8' High Top Rail, Four Sections, Eight Seats	5,055.43	699.24
			For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	596.96	
			For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	709.86	



Equipment			11
Entertainment and Recreation Equipment			11 60
Play Field Equipment and Structures			11 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0100	EA	10'	High Top Rail, One Section, Two Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,356.78 277.56 327.23	340.86
11 68 13 00-0101	EA	10'	High Top Rail, One Section Three Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,461.19 290.43 344.62	361.46
11 68 13 00-0102	EA	10'	High Top Rail, Two Sections, Four Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,290.24 387.42 456.49	477.17
11 68 13 00-0103	EA	10'	High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,956.36 468.34 561.33	550.07
11 68 13 00-0104	EA	10'	High Top Rail, Three Section, Six Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,379.68 515.72 607.73	634.82
11 68 13 00-0105	EA	10'	High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	5,450.87 646.39 779.07	699.52
11 68 13 00-0106	EA	10'	High Top Rail, Four Section, Eight Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	5,556.33 652.58 762.54	839.09
11 68 13 00-0107	EA	12'	High Top Rail, One Section Three Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,573.87 304.10 362.23	370.23
11 68 13 00-0108	EA	12'	High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,186.83 494.98 590.82	595.66
11 68 13 00-0109	EA	12'	High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy-Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	6,102.78 716.23 834.91	954.05
11 68 13 00-0110			Swing Accessories (11 68 13 00-0085)		
11 68 13 00-0111	EA		Enclosed Tot Seat With Chain And Hardware.....	610.04	28.02
11 68 13 00-0112	EA		Bucket Seat With Chain And Hardware.....	507.15	23.31
11 68 13 00-0113	EA		Belt Seat With Chain And Hardware.....	540.22	24.87
11 68 13 00-0114	EA		Seat With Chain And Hardware.....	532.87	24.51
11 68 13 00-0115	EA		Wide Seat With Chain And Hardware.....	562.48	25.90
11 68 13 00-0116	EA		Handi Seat With Chain And Hardware.....	1,679.45	77.23
11 68 13 00-0117	LF		0.4 Lb./LF Replacement Chain.....	7.03	0.55
11 68 13 00-0118	LF		1 Lb./LF Replacement Chain.....	13.04	1.11
11 68 13 00-0119	EA		Swing Hanger Replacement.....	76.25	6.38
11 68 23			Exterior Court Athletic Equipment (11 68)		
11 68 23 13			Exterior Basketball Equipment (11 68 23)		
11 68 23 13-0001			Basketball Systems (11 68 23 13)		
			See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0002	EA		4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System (Sportsplay 541-616).....	2,507.21	272.33
11 68 23 13-0003	EA		5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00176-230).....	4,476.60	299.57
			<i>For Fan Shaped Fiberglass Backboard, Deduct</i> <i>For 42" x 72" Perforated Steel Backboard, Add</i>	-133.00 350.00	
11 68 23 13-0004	EA		4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00164-230).....	2,883.32	272.33
			<i>For Fan Shaped Fiberglass Backboard, Deduct</i> <i>For 42" x 72" Perforated Steel Backboard, Add</i>	-133.00 350.00	
11 68 23 13-0005	EA		5-9/16" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System (Porter Athletic 00166-230).....	4,476.60	299.57
			<i>For Fan Shaped Fiberglass Backboard, Deduct</i> <i>For 42" x 72" Perforated Steel Backboard, Add</i>	-133.00 350.00	
11 68 23 13-0006	EA		Back To Back 6" Galvanized Steel Pole With 5' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System (Porter Athletic 195582).....	8,034.57	440.55
			<i>For Fan Shaped Fiberglass Backboard, Deduct</i> <i>For 42" x 72" Perforated Steel Backboard, Add</i>	-498.00 700.00	
11 68 23 13-0007			Basketball Components (11 68 23 13)		
			See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0008	EA		Anti-Whip, Nylon Cord Basketball Net (Porter Athletic 09608-120).....	34.16	9.32
11 68 23 13-0009	EA		Chain Basketball Net (Porter Athletic 00161-000).....	61.51	9.32
11 68 23 13-0010	EA		Heavy-Duty Goal Ring (Porter Athletic 00235-000).....	141.10	46.61
11 68 23 13-0011	EA		Goal Ring For Steel Net (Porter Athletic 00251-H00).....	257.65	20.97
11 68 23 13-0012	EA		42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000)..... Note: Includes perimeter and target markings. Excludes pole and goal.	1,499.25	39.63
11 68 23 13-0013	EA		42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300)..... Note: Includes perimeter and target markings. Excludes pole and goal.	1,927.95	39.63
11 68 23 13-0014	EA		54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300)..... Note: Includes perimeter and target markings. Excludes pole and goal.	980.85	34.96
11 68 23 13-0015	EA		54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000)..... Note: Includes perimeter and target markings. Excludes pole and goal.	1,073.35	34.96

11 Equipment**11 60 Entertainment and Recreation Equipment****11 68 Play Field Equipment and Structures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

11 68 23 33 Tennis Equipment (11 68 23)**11 68 23 33-0001 Tennis Court Net Posts** (11 68 23 33)

11 68 23 33-0002	PR	Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	1,166.69	158.49
11 68 23 33-0003	PR	Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,485.90	158.49
11 68 23 33-0004	PR	Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,539.10	158.49
11 68 23 33-0005	PR	Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,631.11	158.49
11 68 23 33-0006	PR	Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder	1,958.69	158.49
11 68 23 33-0007	PR	Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts	290.22	
11 68 23 33-0008	PR	Galvanized Steel Ground Sleeves For Tennis Court Net Posts	329.98	

11 68 23 33-0009 Tennis Court Nets (11 68 23 33)

11 68 23 33-0010	EA	42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	634.06	156.63
11 68 23 33-0011	EA	42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net	697.54	156.63
11 68 23 33-0012	EA	42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net	1,516.34	241.01
11 68 23 33-0013	EA	Galvanized Steel Anchor For Tennis Court Net Center Strap	81.72	

11 68 33 Athletic Field Equipment (11 68)**11 68 33 13 Football Field Equipment** (11 68 33)**11 68 33 13-0001 Football Goal Posts** (11 68 33 13)

Note: Includes augering for post(s), set in concrete and backfill.

11 68 33 13-0002	PR	Double Steel Football Goal Posts, "H Shape"	5,190.82	419.54
11 68 33 13-0003	PR	Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights	7,627.21	662.22
11 68 33 13-0004	PR	Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights	9,109.85	794.67

11 68 33 23 Soccer and Field Hockey Equipment (11 68 33)**11 68 33 23-0001 Soccer Goal Posts** (11 68 33 23)

Note: Includes augering for post(s), set in concrete and backfill.

11 68 33 23-0002	PR	Regulation Soccer Goal Posts	5,023.93	279.69
11 68 33 23-0003	PR	Combination Football/Soccer Goal Post	6,035.68	419.54

11 68 33 33 Baseball Field Equipment (11 68 33)**11 68 33 33-0001 Bases** (11 68 33 33)

11 68 33 33-0002	SET	Bases For Baseball Or Softball	612.38	

11 80 Facility Maintenance and Operation Equipment (11)**11 82 Facility Solid Waste Handling Equipment** (11 80)**11 82 19 Packaged Incinerators** (11 82)**11 82 19 00-0001 Electric Incinerator** (11 82 19)

11 82 19 00-0002	EA	Electric Package Incinerator, 100 Lb./Hour	40,988.71	1,123.49
11 82 19 00-0003	EA	Electric Package Incinerator, 400 Lb./Hour	83,867.01	2,246.99
11 82 19 00-0004	EA	Electric Package Incinerator, 1,000 Lb./Hour	283,446.59	3,370.48

11 82 26 Facility Waste Compactors (11 82)**11 82 26 00-0001 Waste Compactors** (11 82 26)**11 82 26 00-0002 110 Volt Compactors** (11 82 26 00-0001)

11 82 26 00-0003	EA	Waste Compactor, 110 Volt At 75 Lb./Hour	22,367.53	610.19
11 82 26 00-0004	EA	Waste Compactor, 110 Volt At 250 Lb./Hour	28,116.46	1,464.47

11 82 26 00-0005 230 Volt Compactors (11 82 26 00-0001)

11 82 26 00-0006	EA	Waste Compactor, 230 Volt At 600 Lb./Hour Hand Fed	28,066.68	1,952.62
11 82 26 00-0007	EA	Waste Compactor, 230 Volt At 600 Lb./Hour Chute Fed	31,651.72	2,562.81

END OF SECTION 11



Special Construction		13	13
Integrated Construction		13 40	
Facility Protection		13 47	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001	Anodes ^(13 47 13 13)		
13 47 13 13-0002	Magnesium Type, Conventional ^(13 47 13 13-0001)		
13 47 13 13-0003	EA 9 Lb. Magnesium Type Anodes	421.13	184.40
13 47 13 13-0004	EA 17 Lb. Magnesium Type Anodes	624.61	266.52
13 47 13 13-0005	EA 32 Lb. Magnesium Type Anode	852.19	342.87
13 47 13 13-0006	EA 48 Lb. Magnesium Type Anode	1,213.18	479.74
13 47 13 13-0007	Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.		
13 47 13 13-0008	EA 3" x 60", 32 Lb., Graphite Type Anodes With Epoxy Cap	638.15	263.30
13 47 13 13-0009	EA 4" x 80", 68 Lb., Graphite Type Anodes With Epoxy Cap	993.13	367.67
13 47 13 13-0010	EA 6" x 36", 45 Lb., Graphite Type Anodes With Epoxy Cap	745.96	230.09
13 47 13 13-0011	EA 6" x 72", 80 Lb., Graphite Type Anodes With Epoxy Cap	1,141.81	307.17
13 47 13 13-0012	High Silicon Cast Iron Type ^(13 47 13 13-0001)		
13 47 13 13-0013	EA 2.66" x 84", 70 Lb., High Silicon Cast Iron Anode	2,200.73	367.67
13 47 13 13-0014	Metal Oxide Type ^(13 47 13 13-0001)		
13 47 13 13-0015	EA 1" x 60", 5 Lb., Mixed Metal Oxide Anode	1,105.45	184.40
	Note: Includes center connected #8 HMWPE/HALAR Lead wire.		
13 47 13 13-0016	Rectifiers ^(13 47 13 13)		
13 47 13 13-0017	Air-Cooled, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0018	EA Air-Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	2,238.43	373.80
13 47 13 13-0019	EA Air-Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,424.44	373.80
13 47 13 13-0020	Oil Immersed, Silicon Type ^(13 47 13 13-0016)		
13 47 13 13-0021	EA Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type	3,387.48	432.20
13 47 13 13-0022	EA Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type	3,586.77	432.20
13 47 13 13-0023	Anode Backfill ^(13 47 13 13)		
13 47 13 13-0024	LB Anode Backfill, Coke Breeze	1.25	0.47
13 47 13 13-0025	Cathodic Protection Cable ^(13 47 13 13)		
13 47 13 13-0026	MLF Cathodic Protection Cable, OR2 - No 8	2,476.54	920.34
13 47 13 13-0027	MLF Cathodic Protection Cable, OR2 - No 6	2,758.44	920.34
13 47 13 13-0028	MLF Cathodic Protection Cable, OR2 - No 4	3,181.28	920.34
13 47 13 13-0029	MLF Cathodic Protection Cable, OR2 - No 2	3,886.02	920.34
13 47 13 13-0030	MLF Cathodic Protection Cable, OR2 - No 1	4,843.44	1,014.04
13 47 13 13-0031	MLF Cathodic Protection Cable, OR2-No 1/0	5,372.00	1,014.04
13 47 13 13-0032	MLF Cathodic Protection Cable, OR2-No 2/0	6,252.93	1,014.04
13 47 13 13-0033	MLF Cathodic Protection Cable, OR2-No 4/0	8,549.00	1,105.36
13 47 13 13-0034	Cathodic Test Stations ^(13 47 13 13)		
13 47 13 13-0035	Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0034)		
13 47 13 13-0036	EA Cathodic Test Station, Flush Curb Type With Lockable Cover	327.17	107.72
13 47 13 16	Cathodic Protection for Underground Storage Tanks ^(13 47 13) See CSI section 13 47 13 13-0000 for Cathodic protection for tanks.		

13	13	Special Construction
	13 40	Integrated Construction
	13 47	Facility Protection



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

END OF SECTION 13



		Special Construction	13	13
		Integrated Construction	13 40	
		Facility Protection	13 47	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST

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13	13	Special Construction
	13 40	Integrated Construction
	13 47	Facility Protection



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST



Plumbing		22
Common Work Results for Plumbing		22 05
General-Duty Valves for Plumbing Piping		22 05 23

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 05 Common Work Results for Plumbing (22)

22 05 23 General-Duty Valves for Plumbing Piping (22 05)

See CSI section 23 05 23 00-0000 for additional valves.

22 05 23 00-0001	Gate Valves (22 05 23)		
22 05 23 00-0002	Class 125 Brazed Or Soldered Bronze Gate Valves (22 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)			
22 05 23 00-0003	EA 1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	101.53	13.01
	For 150 Lb. Rating, Add	6.36	
	For 200 Lb. Rating, Add	9.55	
	For Work In Restricted Working Space, Add	11.37	
22 05 23 00-0004	EA 3/8" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	103.52	13.01
	For 150 Lb. Rating, Add	6.36	
	For 200 Lb. Rating, Add	9.55	
	For Work In Restricted Working Space, Add	11.96	
22 05 23 00-0005	EA 1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	105.98	13.01
	For 150 Lb. Rating, Add	6.40	
	For 200 Lb. Rating, Add	9.60	
	For Work In Restricted Working Space, Add	12.59	
22 05 23 00-0006	EA 3/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	125.37	14.31
	For 150 Lb. Rating, Add	6.88	
	For 200 Lb. Rating, Add	10.32	
	For Work In Restricted Working Space, Add	16.97	
22 05 23 00-0007	EA 1" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	152.76	16.27
	For 150 Lb. Rating, Add	8.43	
	For 200 Lb. Rating, Add	12.64	
	For Work In Restricted Working Space, Add	20.55	
22 05 23 00-0008	EA 1-1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	224.33	17.31
	For 150 Lb. Rating, Add	13.76	
	For 200 Lb. Rating, Add	20.64	
	For Work In Restricted Working Space, Add	26.02	
22 05 23 00-0009	EA 1-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	249.62	20.03
	For 150 Lb. Rating, Add	14.95	
	For 200 Lb. Rating, Add	22.43	
	For Work In Restricted Working Space, Add	30.02	
22 05 23 00-0010	EA 2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	299.46	23.68
	For 150 Lb. Rating, Add	18.12	
	For 200 Lb. Rating, Add	27.18	
	For Work In Restricted Working Space, Add	35.49	
22 05 23 00-0011	EA 2-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	685.28	31.99
	For 150 Lb. Rating, Add	52.55	
	For 200 Lb. Rating, Add	78.83	
	For Work In Restricted Working Space, Add	47.93	
	For Chain Operated Type, Add	236.48	
22 05 23 00-0012	EA 3" Diameter, 125 Lb. Brazed Or Soldered Bronze Gate Valve	804.47	37.14
	For 150 Lb. Rating, Add	62.01	
	For 200 Lb. Rating, Add	93.02	
	For Work In Restricted Working Space, Add	55.31	
22 05 23 00-0013	Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves (22 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)			
22 05 23 00-0014	EA 1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	122.73	13.01
	For 150 Lb. Rating, Add	8.48	
	For 200 Lb. Rating, Add	12.73	
	For Work In Restricted Working Space, Add	11.37	
22 05 23 00-0015	EA 3/8" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	124.54	13.01
	For 150 Lb. Rating, Add	8.47	
	For 200 Lb. Rating, Add	12.70	
	For Work In Restricted Working Space, Add	11.96	
22 05 23 00-0016	EA 1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	145.16	13.01
	For 150 Lb. Rating, Add	10.32	
	For 200 Lb. Rating, Add	15.48	
	For Work In Restricted Working Space, Add	12.59	
22 05 23 00-0017	EA 3/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	164.56	14.31
	For 150 Lb. Rating, Add	10.80	
	For 200 Lb. Rating, Add	16.20	
	For Work In Restricted Working Space, Add	16.97	
22 05 23 00-0018	EA 1" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	197.47	16.27
	For 150 Lb. Rating, Add	12.90	
	For 200 Lb. Rating, Add	19.35	
	For Work In Restricted Working Space, Add	20.55	
22 05 23 00-0019	EA 1-1/4" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	285.48	17.31
	For 150 Lb. Rating, Add	19.87	
	For 200 Lb. Rating, Add	29.81	
	For Work In Restricted Working Space, Add	26.02	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
22 05 23 00-0020	EA	1-1/2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	326.54	20.03
		For 150 Lb. Rating, Add	22.65	
		For 200 Lb. Rating, Add	33.97	
		For Work In Restricted Working Space, Add	30.02	
22 05 23 00-0021	EA	2" Diameter, 125 Lb. Brazed Or Soldered Bronze Lead Free Gate Valve	418.31	23.68
		For 150 Lb. Rating, Add	30.00	
		For 200 Lb. Rating, Add	45.00	
		For Work In Restricted Working Space, Add	35.49	
22 05 23 00-0022 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valves (22 05 23 00-0001)				
Note: 200 psi cold working pressure.				
22 05 23 00-0023	EA	1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	140.23	13.01
		For Work In Restricted Working Space, Add	8.78	
22 05 23 00-0024	EA	3/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	157.92	14.31
		For Work In Restricted Working Space, Add	10.00	
22 05 23 00-0025	EA	1" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	207.61	16.27
		For Work In Restricted Working Space, Add	11.95	
22 05 23 00-0026	EA	1-1/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	283.27	17.31
		For Work In Restricted Working Space, Add	13.17	
22 05 23 00-0027	EA	1-1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	328.43	20.03
		For Work In Restricted Working Space, Add	14.64	
22 05 23 00-0028	EA	2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve	452.21	23.68
		For Work In Restricted Working Space, Add	17.57	
22 05 23 00-0029 Ball Valves (22 05 23)				
22 05 23 00-0030 Crimped Bronze, Ball Valves (22 05 23 00-0029)				
22 05 23 00-0031 Crimped Bronze, 250 PSI, Ball Valves (22 05 23 00-0030)				
Note: Nibco®				
22 05 23 00-0032	EA	1/2" Crimped Bronze, 250 PSI, Ball Valve	96.29	13.01
		For Work In Restricted Working Space, Add	8.78	
22 05 23 00-0033	EA	3/4" Crimped Bronze, 250 PSI, Ball Valve	124.66	14.31
		For Work In Restricted Working Space, Add	10.00	
22 05 23 00-0034	EA	1" Crimped Bronze, 250 PSI, Ball Valve	160.04	16.27
		For Work In Restricted Working Space, Add	11.95	
22 05 23 00-0035	EA	1-1/4" Crimped Bronze, 250 PSI, Ball Valve	258.90	17.31
		For Work In Restricted Working Space, Add	13.17	
22 05 23 00-0036	EA	1-1/2" Crimped Bronze, 250 PSI, Ball Valve	342.35	20.03
		For Work In Restricted Working Space, Add	14.64	
22 05 23 00-0037	EA	2" Crimped Bronze, 250 PSI, Ball Valve	516.21	23.68
		For Work In Restricted Working Space, Add	17.57	
22 05 23 00-0038 Crimped Bronze, 200 PSI, Full Port Ball Valves (22 05 23 00-0030)				
22 05 23 00-0039	EA	1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	58.51	13.01
		For Work In Restricted Working Space, Add	8.78	
22 05 23 00-0040	EA	3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	74.42	14.31
		For Work In Restricted Working Space, Add	10.00	
22 05 23 00-0041	EA	1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	90.40	16.27
		For Work In Restricted Working Space, Add	11.95	
22 05 23 00-0042	EA	1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	126.08	17.31
		For Work In Restricted Working Space, Add	13.17	
22 05 23 00-0043	EA	1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	162.56	20.03
		For Work In Restricted Working Space, Add	14.64	
22 05 23 00-0044	EA	2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	240.25	23.68
		For Work In Restricted Working Space, Add	17.57	
22 05 23 00-0045 Crimped Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)				
22 05 23 00-0046	EA	1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	67.20	13.01
		For Work In Restricted Working Space, Add	8.78	
22 05 23 00-0047	EA	3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	80.74	14.31
		For Work In Restricted Working Space, Add	10.00	
22 05 23 00-0048	EA	1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	100.51	16.27
		For Work In Restricted Working Space, Add	11.95	
22 05 23 00-0049	EA	1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	157.67	17.31
		For Work In Restricted Working Space, Add	13.17	
22 05 23 00-0050	EA	1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	230.50	20.03
		For Work In Restricted Working Space, Add	14.64	
22 05 23 00-0051	EA	2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	319.25	23.68
		For Work In Restricted Working Space, Add	17.57	
22 05 23 00-0052 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)				
22 05 23 00-0053	EA	1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	64.83	13.01
		For Work In Restricted Working Space, Add	8.78	
22 05 23 00-0054	EA	3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	78.53	14.31
		For Work In Restricted Working Space, Add	10.00	
22 05 23 00-0055	EA	1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	95.45	16.27
		For Work In Restricted Working Space, Add	11.95	



Plumbing		22
Common Work Results for Plumbing		22 05
General-Duty Valves for Plumbing Piping		22 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0056 Check Valves (22 05 23)		
22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (22 05 23 00-0056)		
Note: Nibco®		
22 05 23 00-0058 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	184.14	13.01
For Work In Restricted Working Space, Add	8.78	
22 05 23 00-0059 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	234.44	14.31
For Work In Restricted Working Space, Add	10.00	
22 05 23 00-0060 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	324.14	16.27
For Work In Restricted Working Space, Add	11.95	
22 05 23 00-0061 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	432.22	17.31
For Work In Restricted Working Space, Add	13.17	
22 05 23 00-0062 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	515.70	20.03
For Work In Restricted Working Space, Add	14.64	
22 05 23 00-0063 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve.....	738.11	23.68
For Work In Restricted Working Space, Add	17.57	
22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves (22 05 23 00-0056)		
22 05 23 00-0065 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	51.84	13.01
For Work In Restricted Working Space, Add	8.78	
22 05 23 00-0066 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	62.21	14.31
For Work In Restricted Working Space, Add	10.00	
22 05 23 00-0067 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve.....	73.11	16.27
For Work In Restricted Working Space, Add	11.95	
22 05 23 00-0068 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve.....	92.02	17.31
For Work In Restricted Working Space, Add	13.17	
22 05 23 00-0069 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	117.10	20.03
For Work In Restricted Working Space, Add	14.64	
22 05 23 00-0070 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve.....	182.85	23.68
For Work In Restricted Working Space, Add	17.57	
22 05 23 00-0071 Butterfly Valves (22 05 23)		
22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve (22 05 23 00-0071)		
22 05 23 00-0073 EA 2-1/2" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....	1,376.86	34.74
For Work In Restricted Working Space, Add	20.49	
22 05 23 00-0074 EA 3" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....	1,490.54	40.34
For Work In Restricted Working Space, Add	24.40	
22 05 23 00-0075 EA 4" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve.....	1,863.26	45.54
For Work In Restricted Working Space, Add	32.20	
22 05 23 00-0076 Regulators, Clay Valve (22 05 23)		
22 05 23 00-0077 EA 4" Regulator - Clay Valve.....	4,047.54	
22 05 23 00-0078 EA 8" Regulator - Clay Valve.....	5,505.99	
22 05 23 00-0079 EA 10" Regulator - Clay Valve.....	7,505.82	
22 05 23 00-0080 EA 12" Regulator - Clay Valve.....	9,101.69	
22 05 23 00-0081 EA 18" Regulator - Clay Valve.....	16,009.38	
22 05 23 00-0082 EA 24" Regulator - Clay Valve.....	25,893.09	
22 05 23 00-0083 Earthquake-Sensitive Gas Shut-Off Valves (22 05 23)		
22 05 23 00-0084 0.5 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0085 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	189.79	14.31
22 05 23 00-0086 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	215.14	16.27
22 05 23 00-0087 7 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0088 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	251.72	17.31
22 05 23 00-0089 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	338.39	20.03
22 05 23 00-0090 60 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0091 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	233.78	14.31
22 05 23 00-0092 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	245.69	16.27
22 05 23 00-0093 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	276.17	17.31
22 05 23 00-0094 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	375.05	20.03
22 05 23 00-0095 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	851.55	23.68
22 05 23 00-0096 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,014.66	31.88
22 05 23 00-0097 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,314.79	37.14
22 05 23 00-0098 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,523.48	41.94
22 05 23 00-0099 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0083)		
22 05 23 00-0100 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,194.54	173.44
22 05 23 00-0101 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,470.95	203.71
22 05 23 00-0102 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	2,077.81	341.52

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 05 23 00-0103	EA		6" Flanged, 60 PSI Earthquake Gas Shutoff Valve	3,378.82	404.06
22 05 23 00-0104	EA		8" Flanged, 60 PSI Earthquake Gas Shutoff Valve	9,073.85	516.30

22 05 76 Facility Drainage Piping Cleanouts (22 05)**22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover** (22 05 76)

Note: For floor installation.

22 05 76 00-0002 Cast Iron Cleanout With Plug And Round Or Square Cover (22 05 76 00-0001)

22 05 76 00-0003	EA		2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	775.39	69.22
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004	EA		3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	836.91	86.78
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005	EA		4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,045.30	104.87
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006	EA		5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,502.89	117.36
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007	EA		6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,851.32	127.12
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	

22 05 76 00-0008 Cast Iron Heavy-Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)

22 05 76 00-0009	EA		2" Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	894.47	69.22
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010	EA		3" Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	957.88	86.78
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011	EA		4" Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,166.27	104.87
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012	EA		5" Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,623.86	117.36
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013	EA		6" Heavy-Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover	1,972.29	127.12
			For Vandal Proof, Add	19.50	
			For Galvanized Ferrule, Add	45.00	
			For Carpet Marker, Add	16.00	
			For Carpet Flange, Add	58.50	
			For Wide Flange, Add	97.00	
			For Satin Bronze Top, Deduct	-24.00	

22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
Note: Cover and screw only.					
22 05 76 00-0015			Round Access Cover, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.					
22 05 76 00-0016	EA		4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	92.24	21.73
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017	EA		5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	100.91	26.03
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018	EA		7" Diameter Wall Cover For Cleanout, Screwed.....	126.70	29.28
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019	EA		9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	205.20	32.53
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020	EA		11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	301.72	35.78
			For Stainless Steel, Add	9.00	
			For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021			Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.					
22 05 76 00-0022	EA		7" x 7" Bronze Wall Or Floor Access Cover.....	592.24	21.73
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0023	EA		9" x 9" Bronze Wall Or Floor Access Cover.....	853.58	22.77
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0024	EA		10" x 10" Bronze Wall Or Floor Access Cover.....	912.08	24.07
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0025	EA		14" x 14" Bronze Wall Or Floor Access Cover.....	1,020.23	27.32
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0026			Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)		
Note: Cover and screw only.					
22 05 76 00-0027	EA		6" x 6" Bronze Secured Wall Access Panel.....	602.73	21.73
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0028	EA		8" x 8" Bronze Secured Wall Access Panel.....	869.03	22.77
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0029	EA		10" x 10" Bronze Secured Wall Access Panel.....	928.60	24.07
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0030	EA		12" x 12" Bronze Secured Wall Access Panel.....	1,038.70	27.32
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0031			Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014)		
Note: Cover and screw only.					
22 05 76 00-0032	EA		6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....	584.61	21.73
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0033	EA		8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....	809.47	22.77
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0034	EA		10" x 10" Bronze Secured Hinged Access Panel, Scoriated.....	1,148.72	24.07
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0035	EA		12" x 12" Bronze Secured Hinged Access Panel, Scoriated.....	1,390.88	27.32
			For Vandal Proof Screws, Add	19.50	
			For Nickel Bronze, Add	22.50	
22 05 76 00-0036			Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037			Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036)		
Note: Satin smooth secured cover.					
22 05 76 00-0038	EA		2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	561.29	69.22
			For Vandal Proof Screws, Add	19.50	
			For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0039	EA		3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	640.35	86.65
			For Vandal Proof Screws, Add	19.50	
			For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0040	EA		4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	837.16	104.87
			For Vandal Proof Screws, Add	19.50	
			For Galvanized Cast Iron Parts, Add	88.80	
22 05 76 00-0041	EA		6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover.....	2,015.75	127.12
			For Vandal Proof Screws, Add	19.50	
			For Galvanized Cast Iron Parts, Add	88.80	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 05 76 00-0042	Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.				
22 05 76 00-0043	EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	984.16		69.22	
	For Vandal Proof Screws, Add	19.50			
	For Galvanized Cast Iron Parts, Add	88.80			
22 05 76 00-0044	EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	1,063.22		86.65	
	For Vandal Proof Screws, Add	19.50			
	For Galvanized Cast Iron Parts, Add	88.80			
22 05 76 00-0045	EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	1,231.97		104.87	
	For Vandal Proof Screws, Add	19.50			
	For Galvanized Cast Iron Parts, Add	88.80			
22 05 76 00-0046	EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover.....	2,586.93		127.12	
	For Vandal Proof Screws, Add	19.50			
	For Galvanized Cast Iron Parts, Add	88.80			
22 05 76 00-0047	Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)				
22 05 76 00-0048	EA 2" Cleanout Tee With Cast Bronze Screw Plug.....	460.21		56.60	
22 05 76 00-0049	EA 3" Cleanout Tee With Cast Bronze Screw Plug.....	514.75		61.80	
22 05 76 00-0050	EA 4" Cleanout Tee With Cast Bronze Screw Plug.....	686.18		81.32	
22 05 76 00-0051	EA 5" Cleanout Tee With Cast Bronze Screw Plug.....	1,035.03		96.29	
22 05 76 00-0052	EA 6" Cleanout Tee With Cast Bronze Screw Plug.....	1,772.21		113.85	
22 05 76 00-0053	Removable Cleanout Plug (22 05 76)				
22 05 76 00-0054	Threaded Bronze Plugs (22 05 76 00-0053)				
22 05 76 00-0055	EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug.....	86.57		16.27	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0056	EA 2-1/2" Threaded Bronze Plug.....	103.89		17.69	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0057	EA 3" Threaded Bronze Plug.....	178.81		19.52	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0058	EA 3-1/2" Threaded Bronze Plug.....	200.04		22.77	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0059	EA 4" Threaded Bronze Plug.....	226.16		26.03	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0060	EA 5" Threaded Bronze Plug.....	318.46		29.28	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0061	EA 6" Threaded Bronze Plug.....	469.58		32.53	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0062	EA 8" Threaded Bronze Plug.....	794.59		35.78	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0063	EA 10" Threaded Bronze Plug.....	1,144.23		39.04	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0064	Threaded Brass Plugs (22 05 76 00-0053)				
22 05 76 00-0065	EA 1-1/2" Threaded Brass Plug, Raised Head.....	35.99		16.26	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0066	EA 2" Threaded Brass Plug, Raised Head.....	36.60		16.26	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0067	EA 2-1/2" Threaded Brass Plug, Raised Head.....	39.89		17.69	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0068	EA 3" Threaded Brass Plug, Raised Head.....	45.11		19.52	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0069	EA 3-1/2" Threaded Brass Plug, Raised Head.....	53.24		22.77	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0070	EA 4" Threaded Brass Plug, Raised Head.....	62.48		26.02	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0071	EA 4-1/2" Threaded Brass Plug, Raised Head.....	67.07		27.40	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0072	EA 5" Threaded Brass Plug, Raised Head.....	72.05		29.28	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0073	EA 6" Threaded Brass Plug, Raised Head.....	93.18		32.53	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0074	EA 1-1/2" Threaded Brass Plug, Countersunk Head.....	35.52		16.26	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0075	EA 2" Threaded Brass Plug, Countersunk Head.....	36.19		16.26	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0076	EA 2-1/2" Threaded Brass Plug, Countersunk Head.....	41.20		17.69	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0077	EA 3" Threaded Brass Plug, Countersunk Head.....	45.30		19.52	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0078	EA 3-1/2" Threaded Brass Plug, Countersunk Head.....	52.68		22.77	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0079	EA 4" Threaded Brass Plug, Countersunk Head.....	61.59		26.03	
	For Plug Tapped For Center Screw, Add	9.50			
22 05 76 00-0080	EA 5" Threaded Brass Plug, Countersunk Head.....	71.57		29.28	
	For Plug Tapped For Center Screw, Add	9.50			



Plumbing		22
Common Work Results for Plumbing		22 05
Facility Drainage Piping Cleanouts		22 05 76

22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 05 76 00-0081	EA		6" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	85.33 9.50	32.53

22 07 Plumbing Insulation (22)

22 07 19 Plumbing Piping Insulation (22 07)

22 07 19 00-0001			Insulation Protective Jacketing (22 07 19) Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0002			Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0001)		
22 07 19 00-0003			Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0002)		
22 07 19 00-0004	SF		0.006" Aluminum Insulation Jacket With Bands.....	19.13	8.10
22 07 19 00-0005	SF		0.016" Aluminum Insulation Jacket With Bands.....	19.82	8.10
22 07 19 00-0006			16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0007	LF		1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.98 0.01 0.02	2.30
22 07 19 00-0008	LF		3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.42 0.01 0.03	2.35
22 07 19 00-0009	LF		1" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.86 0.01 0.03	2.41
22 07 19 00-0010	LF		1-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.33 0.01 0.04	2.47
22 07 19 00-0011	LF		1-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.70 0.02 0.04	2.50
22 07 19 00-0012	LF		1-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.08 0.02 0.05	2.54
22 07 19 00-0013	LF		2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.52 0.02 0.05	2.59
22 07 19 00-0014	LF		2-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.96 0.02 0.06	2.65
22 07 19 00-0015	LF		2-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.45 0.03 0.07	2.71
22 07 19 00-0016	LF		2-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.84 0.03 0.07	2.76
22 07 19 00-0017	LF		3" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.35 0.03 0.08	2.82
22 07 19 00-0018	LF		3-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.84 0.03 0.08	2.88
22 07 19 00-0019	LF		3-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.32 0.04 0.09	2.95
22 07 19 00-0020	LF		3-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.76 0.04 0.09	3.00
22 07 19 00-0021	LF		4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.29 0.04 0.10	3.07
22 07 19 00-0022	LF		4-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.82 0.04 0.11	3.15
22 07 19 00-0023	LF		4-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.39 0.04 0.11	3.22
22 07 19 00-0024	LF		4-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.87 0.05 0.12	3.29
22 07 19 00-0025	LF		5" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.45 0.05 0.12	3.37
22 07 19 00-0026	LF		5-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.04 0.05 0.13	3.47
22 07 19 00-0027	LF		5-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.56 0.05 0.14	3.54

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0028	LF		5-3/4" ID, 0.016" Aluminum Insulation Jacketing	20.23	3.64
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.14	
22 07 19 00-0029	LF		6" ID, 0.016" Aluminum Insulation Jacketing	20.88	3.76
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.15	
22 07 19 00-0030	LF		6-1/4" ID, 0.016" Aluminum Insulation Jacketing	21.33	3.81
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.15	
22 07 19 00-0031	LF		6-1/2" ID, 0.016" Aluminum Insulation Jacketing	21.80	3.87
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.16	
22 07 19 00-0032	LF		7" ID, 0.016" Aluminum Insulation Jacketing	22.59	3.96
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.17	
22 07 19 00-0033	LF		7-1/4" ID, 0.016" Aluminum Insulation Jacketing	23.19	4.05
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.17	
22 07 19 00-0034	LF		7-1/2" ID, 0.016" Aluminum Insulation Jacketing	23.68	4.12
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.18	
22 07 19 00-0035	LF		8" ID, 0.016" Aluminum Insulation Jacketing	24.43	4.19
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.19	
22 07 19 00-0036	LF		8-1/2" ID, 0.016" Aluminum Insulation Jacketing	25.15	4.25
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.20	
22 07 19 00-0037	LF		9" ID, 0.016" Aluminum Insulation Jacketing	26.04	4.36
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.21	
22 07 19 00-0038	LF		9-1/2" ID, 0.016" Aluminum Insulation Jacketing	26.84	4.44
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.23	
22 07 19 00-0039	LF		10" ID, 0.016" Aluminum Insulation Jacketing	27.60	4.52
			For Stucco Embossed, Add	0.10	
			For Corrugated, Add	0.24	
22 07 19 00-0040	LF		10-1/2" ID, 0.016" Aluminum Insulation Jacketing	28.39	4.60
			For Stucco Embossed, Add	0.10	
			For Corrugated, Add	0.25	
22 07 19 00-0041	LF		11" ID, 0.016" Aluminum Insulation Jacketing	29.36	4.73
			For Stucco Embossed, Add	0.10	
			For Corrugated, Add	0.26	
22 07 19 00-0042	LF		11-1/2" ID, 0.016" Aluminum Insulation Jacketing	30.21	4.83
			For Stucco Embossed, Add	0.11	
			For Corrugated, Add	0.27	
22 07 19 00-0043	LF		12" ID, 0.016" Aluminum Insulation Jacketing	31.03	4.92
			For Stucco Embossed, Add	0.11	
			For Corrugated, Add	0.28	
22 07 19 00-0044	LF		12-1/2" ID, 0.016" Aluminum Insulation Jacketing	32.08	5.07
			For Stucco Embossed, Add	0.12	
			For Corrugated, Add	0.30	
22 07 19 00-0045	LF		13" ID, 0.016" Aluminum Insulation Jacketing	32.73	5.12
			For Stucco Embossed, Add	0.12	
			For Corrugated, Add	0.31	
22 07 19 00-0046	LF		14" ID, 0.016" Aluminum Insulation Jacketing	33.88	5.17
			For Stucco Embossed, Add	0.13	
			For Corrugated, Add	0.33	
22 07 19 00-0047	LF		15" ID, 0.016" Aluminum Insulation Jacketing	35.23	5.27
			For Stucco Embossed, Add	0.14	
			For Corrugated, Add	0.35	
22 07 19 00-0048	LF		16" ID, 0.016" Aluminum Insulation Jacketing	36.39	5.33
			For Stucco Embossed, Add	0.15	
			For Corrugated, Add	0.38	
22 07 19 00-0049	LF		17" ID, 0.016" Aluminum Insulation Jacketing	37.75	5.44
			For Stucco Embossed, Add	0.16	
			For Corrugated, Add	0.40	
22 07 19 00-0050	LF		18" ID, 0.016" Aluminum Insulation Jacketing	38.61	5.50
			For Stucco Embossed, Add	0.17	
			For Corrugated, Add	0.42	
22 07 19 00-0051	LF		19" ID, 0.016" Aluminum Insulation Jacketing	40.33	5.62
			For Stucco Embossed, Add	0.18	
			For Corrugated, Add	0.45	
22 07 19 00-0052	LF		20" ID, 0.016" Aluminum Insulation Jacketing	41.51	5.69
			For Stucco Embossed, Add	0.19	
			For Corrugated, Add	0.47	
22 07 19 00-0053	LF		21" ID, 0.016" Aluminum Insulation Jacketing	42.95	5.81
			For Stucco Embossed, Add	0.20	
			For Corrugated, Add	0.49	
22 07 19 00-0054	LF		22" ID, 0.016" Aluminum Insulation Jacketing	44.13	5.89
			For Stucco Embossed, Add	0.21	
			For Corrugated, Add	0.51	
22 07 19 00-0055	LF		23" ID, 0.016" Aluminum Insulation Jacketing	45.63	6.03
			For Stucco Embossed, Add	0.22	
			For Corrugated, Add	0.54	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0056	LF		24" ID, 0.016" Aluminum Insulation Jacketing	46.83	6.10
			For Stucco Embossed, Add	0.22	
			For Corrugated, Add	0.56	
22 07 19 00-0057 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)					
22 07 19 00-0058	LF		1/2" ID, 0.020" Aluminum Insulation Jacketing	11.10	2.53
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.02	
22 07 19 00-0059	LF		3/4" ID, 0.020" Aluminum Insulation Jacketing	11.62	2.59
			For Stucco Embossed, Add	0.01	
			For Corrugated, Add	0.03	
22 07 19 00-0060	LF		1" ID, 0.020" Aluminum Insulation Jacketing	12.16	2.65
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0061	LF		1-1/4" ID, 0.020" Aluminum Insulation Jacketing	12.70	2.72
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0062	LF		1-1/2" ID, 0.020" Aluminum Insulation Jacketing	13.15	2.76
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0063	LF		1-3/4" ID, 0.020" Aluminum Insulation Jacketing	13.62	2.80
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0064	LF		2" ID, 0.020" Aluminum Insulation Jacketing	14.14	2.86
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.07	
22 07 19 00-0065	LF		2-1/4" ID, 0.020" Aluminum Insulation Jacketing	14.66	2.92
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.08	
22 07 19 00-0066	LF		2-1/2" ID, 0.020" Aluminum Insulation Jacketing	15.23	2.98
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.08	
22 07 19 00-0067	LF		2-3/4" ID, 0.020" Aluminum Insulation Jacketing	15.71	3.03
			For Stucco Embossed, Add	0.04	
			For Corrugated, Add	0.09	
22 07 19 00-0068	LF		3" ID, 0.020" Aluminum Insulation Jacketing	16.32	3.09
			For Stucco Embossed, Add	0.04	
			For Corrugated, Add	0.10	
22 07 19 00-0069	LF		3-1/4" ID, 0.020" Aluminum Insulation Jacketing	16.88	3.16
			For Stucco Embossed, Add	0.04	
			For Corrugated, Add	0.11	
22 07 19 00-0070	LF		3-1/2" ID, 0.020" Aluminum Insulation Jacketing	17.46	3.24
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.11	
22 07 19 00-0071	LF		3-3/4" ID, 0.020" Aluminum Insulation Jacketing	17.98	3.29
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.12	
22 07 19 00-0072	LF		4" ID, 0.020" Aluminum Insulation Jacketing	18.59	3.37
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.13	
22 07 19 00-0073	LF		4-1/4" ID, 0.020" Aluminum Insulation Jacketing	19.22	3.46
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.13	
22 07 19 00-0074	LF		4-1/2" ID, 0.020" Aluminum Insulation Jacketing	19.89	3.54
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.14	
22 07 19 00-0075	LF		4-3/4" ID, 0.020" Aluminum Insulation Jacketing	20.46	3.61
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.15	
22 07 19 00-0076	LF		5" ID, 0.020" Aluminum Insulation Jacketing	21.13	3.71
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.16	
22 07 19 00-0077	LF		5-1/4" ID, 0.020" Aluminum Insulation Jacketing	21.82	3.82
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.16	
22 07 19 00-0078	LF		5-1/2" ID, 0.020" Aluminum Insulation Jacketing	22.44	3.90
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.17	
22 07 19 00-0079	LF		5-3/4" ID, 0.020" Aluminum Insulation Jacketing	23.22	4.01
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.18	
22 07 19 00-0080	LF		6" ID, 0.020" Aluminum Insulation Jacketing	23.97	4.13
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.19	
22 07 19 00-0081	LF		6-1/4" ID, 0.020" Aluminum Insulation Jacketing	24.51	4.19
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.19	
22 07 19 00-0082	LF		6-1/2" ID, 0.020" Aluminum Insulation Jacketing	25.06	4.25
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.20	
22 07 19 00-0083	LF		7" ID, 0.020" Aluminum Insulation Jacketing	25.99	4.35
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.21	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 07 19 00-0084	LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing	26.70		4.45	
	For Stucco Embossed, Add	0.09			
	For Corrugated, Add	0.22			
22 07 19 00-0085	LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing	27.28		4.53	
	For Stucco Embossed, Add	0.09			
	For Corrugated, Add	0.23			
22 07 19 00-0086	LF 8" ID, 0.020" Aluminum Insulation Jacketing	28.17		4.60	
	For Stucco Embossed, Add	0.10			
	For Corrugated, Add	0.24			
22 07 19 00-0087	LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing	29.05		4.68	
	For Stucco Embossed, Add	0.10			
	For Corrugated, Add	0.26			
22 07 19 00-0088	LF 9" ID, 0.020" Aluminum Insulation Jacketing	30.10		4.81	
	For Stucco Embossed, Add	0.11			
	For Corrugated, Add	0.27			
22 07 19 00-0089	LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing	31.06		4.89	
	For Stucco Embossed, Add	0.12			
	For Corrugated, Add	0.29			
22 07 19 00-0090	LF 10" ID, 0.020" Aluminum Insulation Jacketing	31.99		4.98	
	For Stucco Embossed, Add	0.12			
	For Corrugated, Add	0.30			
22 07 19 00-0091	LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing	32.92		5.07	
	For Stucco Embossed, Add	0.13			
	For Corrugated, Add	0.32			
22 07 19 00-0092	LF 11" ID, 0.0106 Aluminum Insulation Jacketing	34.07		5.21	
	For Stucco Embossed, Add	0.13			
	For Corrugated, Add	0.33			
22 07 19 00-0093	LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing	35.08		5.30	
	For Stucco Embossed, Add	0.14			
	For Corrugated, Add	0.35			
22 07 19 00-0094	LF 12" ID, 0.020" Aluminum Insulation Jacketing	36.06		5.41	
	For Stucco Embossed, Add	0.14			
	For Corrugated, Add	0.36			
22 07 19 00-0095	LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing	37.30		5.57	
	For Stucco Embossed, Add	0.15			
	For Corrugated, Add	0.38			
22 07 19 00-0096	LF 13" ID, 0.020" Aluminum Insulation Jacketing	38.10		5.62	
	For Stucco Embossed, Add	0.16			
	For Corrugated, Add	0.39			
22 07 19 00-0097	LF 14" ID, 0.020" Aluminum Insulation Jacketing	39.52		5.68	
	For Stucco Embossed, Add	0.17			
	For Corrugated, Add	0.42			
22 07 19 00-0098	LF 15" ID, 0.020" Aluminum Insulation Jacketing	41.15		5.80	
	For Stucco Embossed, Add	0.18			
	For Corrugated, Add	0.45			
22 07 19 00-0099	LF 16" ID, 0.020" Aluminum Insulation Jacketing	42.59		5.87	
	For Stucco Embossed, Add	0.19			
	For Corrugated, Add	0.48			
22 07 19 00-0100	LF 17" ID, 0.020" Aluminum Insulation Jacketing	44.24		5.99	
	For Stucco Embossed, Add	0.20			
	For Corrugated, Add	0.51			
22 07 19 00-0101	LF 18" ID, 0.020" Aluminum Insulation Jacketing	45.31		6.06	
	For Stucco Embossed, Add	0.21			
	For Corrugated, Add	0.53			
22 07 19 00-0102	LF 19" ID, 0.020" Aluminum Insulation Jacketing	47.39		6.19	
	For Stucco Embossed, Add	0.23			
	For Corrugated, Add	0.57			
22 07 19 00-0103	LF 20" ID, 0.020" Aluminum Insulation Jacketing	48.86		6.26	
	For Stucco Embossed, Add	0.24			
	For Corrugated, Add	0.60			
22 07 19 00-0104	LF 21" ID, 0.020" Aluminum Insulation Jacketing	50.59		6.40	
	For Stucco Embossed, Add	0.25			
	For Corrugated, Add	0.62			
22 07 19 00-0105	LF 22" ID, 0.020" Aluminum Insulation Jacketing	52.04		6.47	
	For Stucco Embossed, Add	0.26			
	For Corrugated, Add	0.65			
22 07 19 00-0106	LF 23" ID, 0.020" Aluminum Insulation Jacketing	53.85		6.63	
	For Stucco Embossed, Add	0.27			
	For Corrugated, Add	0.68			
22 07 19 00-0107	LF 24" ID, 0.020" Aluminum Insulation Jacketing	55.33		6.71	
	For Stucco Embossed, Add	0.28			
	For Corrugated, Add	0.71			
22 07 19 00-0108	24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)				
22 07 19 00-0109	LF 1/2" ID, 0.024" Aluminum Insulation Jacketing	12.21		2.77	
	For Stucco Embossed, Add	0.01			
	For Corrugated, Add	0.03			
22 07 19 00-0110	LF 3/4" ID, 0.024" Aluminum Insulation Jacketing	12.82		2.83	
	For Stucco Embossed, Add	0.02			
	For Corrugated, Add	0.04			
22 07 19 00-0111	LF 1" ID, 0.024" Aluminum Insulation Jacketing	13.43		2.90	
	For Stucco Embossed, Add	0.02			
	For Corrugated, Add	0.05			



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0112	LF	1-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	14.05	2.97
		For Stucco Embossed, Add	.....	0.02	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0113	LF	1-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	14.58	3.01
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.06	
22 07 19 00-0114	LF	1-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	15.11	3.05
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.07	
22 07 19 00-0115	LF	2" ID, 0.024" Aluminum Insulation Jacketing	.....	15.70	3.12
		For Stucco Embossed, Add	.....	0.03	
		For Corrugated, Add	.....	0.08	
22 07 19 00-0116	LF	2-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	16.31	3.18
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.09	
22 07 19 00-0117	LF	2-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	16.97	3.25
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.10	
22 07 19 00-0118	LF	2-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	17.52	3.30
		For Stucco Embossed, Add	.....	0.04	
		For Corrugated, Add	.....	0.11	
22 07 19 00-0119	LF	3" ID, 0.024" Aluminum Insulation Jacketing	.....	18.21	3.37
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.12	
22 07 19 00-0120	LF	3-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	18.87	3.45
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0121	LF	3-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	19.53	3.53
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0122	LF	3-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	20.13	3.59
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.14	
22 07 19 00-0123	LF	4" ID, 0.024" Aluminum Insulation Jacketing	.....	20.82	3.68
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0124	LF	4-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	21.53	3.78
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0125	LF	4-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	22.31	3.87
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0126	LF	4-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	22.95	3.95
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.18	
22 07 19 00-0127	LF	5" ID, 0.024" Aluminum Insulation Jacketing	.....	23.72	4.05
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0128	LF	5-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	24.51	4.16
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	
22 07 19 00-0129	LF	5-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	25.20	4.25
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.21	
22 07 19 00-0130	LF	5-3/4" ID, 0.024" Aluminum Insulation Jacketing	.....	26.08	4.37
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.22	
22 07 19 00-0131	LF	6" ID, 0.024" Aluminum Insulation Jacketing	.....	26.95	4.50
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.22	
22 07 19 00-0132	LF	6-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	27.56	4.56
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.23	
22 07 19 00-0133	LF	6-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	28.19	4.63
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.24	
22 07 19 00-0134	LF	7" ID, 0.024" Aluminum Insulation Jacketing	.....	29.27	4.74
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.26	
22 07 19 00-0135	LF	7-1/4" ID, 0.024" Aluminum Insulation Jacketing	.....	30.07	4.86
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.27	
22 07 19 00-0136	LF	7-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	30.74	4.94
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.27	
22 07 19 00-0137	LF	8" ID, 0.024" Aluminum Insulation Jacketing	.....	31.77	5.03
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.29	
22 07 19 00-0138	LF	8-1/2" ID, 0.024" Aluminum Insulation Jacketing	.....	32.78	5.11
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.31	
22 07 19 00-0139	LF	9" ID, 0.024" Aluminum Insulation Jacketing	.....	34.00	5.24
		For Stucco Embossed, Add	.....	0.13	
		For Corrugated, Add	.....	0.33	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0140	LF		9-1/2" ID, 0.024" Aluminum Insulation Jacketing	35.11	5.33
			For Stucco Embossed, Add	0.14	
			For Corrugated, Add	0.34	
22 07 19 00-0141	LF		10" ID, 0.024" Aluminum Insulation Jacketing	36.17	5.42
			For Stucco Embossed, Add	0.14	
			For Corrugated, Add	0.36	
22 07 19 00-0142	LF		10-1/2" ID, 0.024" Aluminum Insulation Jacketing	37.26	5.52
			For Stucco Embossed, Add	0.15	
			For Corrugated, Add	0.38	
22 07 19 00-0143	LF		11" ID, 0.0106 Aluminum Insulation Jacketing	38.57	5.67
			For Stucco Embossed, Add	0.16	
			For Corrugated, Add	0.40	
22 07 19 00-0144	LF		11-1/2" ID, 0.024" Aluminum Insulation Jacketing	39.74	5.78
			For Stucco Embossed, Add	0.17	
			For Corrugated, Add	0.41	
22 07 19 00-0145	LF		12" ID, 0.024" Aluminum Insulation Jacketing	40.88	5.90
			For Stucco Embossed, Add	0.17	
			For Corrugated, Add	0.43	
22 07 19 00-0146	LF		12-1/2" ID, 0.024" Aluminum Insulation Jacketing	42.28	6.08
			For Stucco Embossed, Add	0.18	
			For Corrugated, Add	0.45	
22 07 19 00-0147	LF		13" ID, 0.024" Aluminum Insulation Jacketing	43.22	6.14
			For Stucco Embossed, Add	0.19	
			For Corrugated, Add	0.47	
22 07 19 00-0148	LF		14" ID, 0.024" Aluminum Insulation Jacketing	44.88	6.20
			For Stucco Embossed, Add	0.20	
			For Corrugated, Add	0.50	
22 07 19 00-0149	LF		15" ID, 0.024" Aluminum Insulation Jacketing	46.80	6.33
			For Stucco Embossed, Add	0.21	
			For Corrugated, Add	0.54	
22 07 19 00-0150	LF		16" ID, 0.024" Aluminum Insulation Jacketing	48.48	6.39
			For Stucco Embossed, Add	0.23	
			For Corrugated, Add	0.57	
22 07 19 00-0151	LF		17" ID, 0.024" Aluminum Insulation Jacketing	50.42	6.53
			For Stucco Embossed, Add	0.24	
			For Corrugated, Add	0.61	
22 07 19 00-0152	LF		18" ID, 0.024" Aluminum Insulation Jacketing	51.66	6.60
			For Stucco Embossed, Add	0.25	
			For Corrugated, Add	0.63	
22 07 19 00-0153	LF		19" ID, 0.024" Aluminum Insulation Jacketing	54.09	6.75
			For Stucco Embossed, Add	0.27	
			For Corrugated, Add	0.68	
22 07 19 00-0154	LF		20" ID, 0.024" Aluminum Insulation Jacketing	55.83	6.82
			For Stucco Embossed, Add	0.29	
			For Corrugated, Add	0.71	
22 07 19 00-0155	LF		21" ID, 0.024" Aluminum Insulation Jacketing	57.83	6.99
			For Stucco Embossed, Add	0.30	
			For Corrugated, Add	0.75	
22 07 19 00-0156	LF		22" ID, 0.024" Aluminum Insulation Jacketing	59.55	7.07
			For Stucco Embossed, Add	0.31	
			For Corrugated, Add	0.78	
22 07 19 00-0157	LF		23" ID, 0.024" Aluminum Insulation Jacketing	61.64	7.23
			For Stucco Embossed, Add	0.33	
			For Corrugated, Add	0.82	
22 07 19 00-0158	LF		24" ID, 0.024" Aluminum Insulation Jacketing	63.37	7.32
			For Stucco Embossed, Add	0.34	
			For Corrugated, Add	0.85	
22 07 19 00-0159			32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0002)		
22 07 19 00-0160	LF		1/2" ID, 0.032" Aluminum Insulation Jacketing	13.81	3.06
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.04	
22 07 19 00-0161	LF		3/4" ID, 0.032" Aluminum Insulation Jacketing	14.56	3.13
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0162	LF		1" ID, 0.032" Aluminum Insulation Jacketing	15.32	3.21
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.06	
22 07 19 00-0163	LF		1-1/4" ID, 0.032" Aluminum Insulation Jacketing	16.10	3.28
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.07	
22 07 19 00-0164	LF		1-1/2" ID, 0.032" Aluminum Insulation Jacketing	16.76	3.33
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.09	
22 07 19 00-0165	LF		1-3/4" ID, 0.032" Aluminum Insulation Jacketing	17.43	3.38
			For Stucco Embossed, Add	0.04	
			For Corrugated, Add	0.10	
22 07 19 00-0166	LF		2" ID, 0.032" Aluminum Insulation Jacketing	18.16	3.45
			For Stucco Embossed, Add	0.04	
			For Corrugated, Add	0.11	
22 07 19 00-0167	LF		2-1/4" ID, 0.032" Aluminum Insulation Jacketing	18.91	3.52
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.12	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0168	LF	2-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	19.75	3.60
		For Stucco Embossed, Add	.....	0.05	
		For Corrugated, Add	.....	0.13	
22 07 19 00-0169	LF	2-3/4" ID, 0.032" Aluminum Insulation Jacketing	.....	20.44	3.66
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.15	
22 07 19 00-0170	LF	3" ID, 0.032" Aluminum Insulation Jacketing	.....	21.28	3.75
		For Stucco Embossed, Add	.....	0.06	
		For Corrugated, Add	.....	0.16	
22 07 19 00-0171	LF	3-1/4" ID, 0.032" Aluminum Insulation Jacketing	.....	22.09	3.83
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.17	
22 07 19 00-0172	LF	3-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	22.91	3.92
		For Stucco Embossed, Add	.....	0.07	
		For Corrugated, Add	.....	0.18	
22 07 19 00-0173	LF	3-3/4" ID, 0.032" Aluminum Insulation Jacketing	.....	23.65	3.99
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.19	
22 07 19 00-0174	LF	4" ID, 0.032" Aluminum Insulation Jacketing	.....	24.50	4.08
		For Stucco Embossed, Add	.....	0.08	
		For Corrugated, Add	.....	0.20	
22 07 19 00-0175	LF	4-1/4" ID, 0.032" Aluminum Insulation Jacketing	.....	25.37	4.18
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.22	
22 07 19 00-0176	LF	4-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	26.31	4.29
		For Stucco Embossed, Add	.....	0.09	
		For Corrugated, Add	.....	0.23	
22 07 19 00-0177	LF	4-3/4" ID, 0.032" Aluminum Insulation Jacketing	.....	27.12	4.37
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.24	
22 07 19 00-0178	LF	5" ID, 0.032" Aluminum Insulation Jacketing	.....	28.05	4.49
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.25	
22 07 19 00-0179	LF	5-1/4" ID, 0.032" Aluminum Insulation Jacketing	.....	29.00	4.61
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.26	
22 07 19 00-0180	LF	5-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	29.86	4.70
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.28	
22 07 19 00-0181	LF	5-3/4" ID, 0.032" Aluminum Insulation Jacketing	.....	30.92	4.85
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.29	
22 07 19 00-0182	LF	6" ID, 0.032" Aluminum Insulation Jacketing	.....	31.96	4.99
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.30	
22 07 19 00-0183	LF	6-1/4" ID, 0.032" Aluminum Insulation Jacketing	.....	32.72	5.07
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.31	
22 07 19 00-0184	LF	6-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	33.49	5.14
		For Stucco Embossed, Add	.....	0.13	
		For Corrugated, Add	.....	0.32	
22 07 19 00-0185	LF	7" ID, 0.032" Aluminum Insulation Jacketing	.....	34.84	5.26
		For Stucco Embossed, Add	.....	0.14	
		For Corrugated, Add	.....	0.35	
22 07 19 00-0186	LF	7-1/4" ID, 0.032" Aluminum Insulation Jacketing	.....	35.81	5.39
		For Stucco Embossed, Add	.....	0.14	
		For Corrugated, Add	.....	0.36	
22 07 19 00-0187	LF	7-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	36.63	5.47
		For Stucco Embossed, Add	.....	0.15	
		For Corrugated, Add	.....	0.37	
22 07 19 00-0188	LF	8" ID, 0.032" Aluminum Insulation Jacketing	.....	37.94	5.57
		For Stucco Embossed, Add	.....	0.16	
		For Corrugated, Add	.....	0.39	
22 07 19 00-0189	LF	8-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	39.22	5.66
		For Stucco Embossed, Add	.....	0.17	
		For Corrugated, Add	.....	0.41	
22 07 19 00-0190	LF	9" ID, 0.032" Aluminum Insulation Jacketing	.....	40.74	5.80
		For Stucco Embossed, Add	.....	0.18	
		For Corrugated, Add	.....	0.44	
22 07 19 00-0191	LF	9-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	42.12	5.91
		For Stucco Embossed, Add	.....	0.19	
		For Corrugated, Add	.....	0.46	
22 07 19 00-0192	LF	10" ID, 0.032" Aluminum Insulation Jacketing	.....	43.48	6.02
		For Stucco Embossed, Add	.....	0.19	
		For Corrugated, Add	.....	0.49	
22 07 19 00-0193	LF	10-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	44.84	6.12
		For Stucco Embossed, Add	.....	0.20	
		For Corrugated, Add	.....	0.51	
22 07 19 00-0194	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	.....	46.45	6.29
		For Stucco Embossed, Add	.....	0.21	
		For Corrugated, Add	.....	0.53	
22 07 19 00-0195	LF	11-1/2" ID, 0.032" Aluminum Insulation Jacketing	.....	47.92	6.41
		For Stucco Embossed, Add	.....	0.22	
		For Corrugated, Add	.....	0.56	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0196	LF		12" ID, 0.032" Aluminum Insulation Jacketing	49.35	6.54
			For Stucco Embossed, Add	0.23	
			For Corrugated, Add	0.58	
22 07 19 00-0197	LF		12-1/2" ID, 0.032" Aluminum Insulation Jacketing	51.06	6.73
			For Stucco Embossed, Add	0.24	
			For Corrugated, Add	0.60	
22 07 19 00-0198	LF		13" ID, 0.032" Aluminum Insulation Jacketing	52.26	6.80
			For Stucco Embossed, Add	0.25	
			For Corrugated, Add	0.63	
22 07 19 00-0199	LF		14" ID, 0.032" Aluminum Insulation Jacketing	54.46	6.87
			For Stucco Embossed, Add	0.27	
			For Corrugated, Add	0.67	
22 07 19 00-0200	LF		15" ID, 0.032" Aluminum Insulation Jacketing	56.87	7.02
			For Stucco Embossed, Add	0.29	
			For Corrugated, Add	0.72	
22 07 19 00-0201	LF		16" ID, 0.032" Aluminum Insulation Jacketing	59.09	7.09
			For Stucco Embossed, Add	0.31	
			For Corrugated, Add	0.77	
22 07 19 00-0202	LF		17" ID, 0.032" Aluminum Insulation Jacketing	61.55	7.24
			For Stucco Embossed, Add	0.33	
			For Corrugated, Add	0.81	
22 07 19 00-0203	LF		18" ID, 0.032" Aluminum Insulation Jacketing	63.14	7.32
			For Stucco Embossed, Add	0.34	
			For Corrugated, Add	0.85	
22 07 19 00-0204	LF		19" ID, 0.032" Aluminum Insulation Jacketing	66.29	7.48
			For Stucco Embossed, Add	0.36	
			For Corrugated, Add	0.91	
22 07 19 00-0205	LF		20" ID, 0.032" Aluminum Insulation Jacketing	68.54	7.56
			For Stucco Embossed, Add	0.38	
			For Corrugated, Add	0.96	
22 07 19 00-0206	LF		21" ID, 0.032" Aluminum Insulation Jacketing	71.09	7.74
			For Stucco Embossed, Add	0.40	
			For Corrugated, Add	1.00	
22 07 19 00-0207	LF		22" ID, 0.032" Aluminum Insulation Jacketing	73.30	7.83
			For Stucco Embossed, Add	0.42	
			For Corrugated, Add	1.05	
22 07 19 00-0208	LF		23" ID, 0.032" Aluminum Insulation Jacketing	75.96	8.02
			For Stucco Embossed, Add	0.44	
			For Corrugated, Add	1.10	
22 07 19 00-0209	LF		24" ID, 0.032" Aluminum Insulation Jacketing	78.21	8.12
			For Stucco Embossed, Add	0.46	
			For Corrugated, Add	1.14	
22 07 19 00-0210 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands					
			(22 07 19 00-0002)		
22 07 19 00-0211	LF		1/2" ID, 0.040" Aluminum Insulation Jacketing	16.05	3.52
			For Stucco Embossed, Add	0.02	
			For Corrugated, Add	0.05	
22 07 19 00-0212	LF		3/4" ID, 0.040" Aluminum Insulation Jacketing	16.97	3.60
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.06	
22 07 19 00-0213	LF		1" ID, 0.040" Aluminum Insulation Jacketing	17.89	3.68
			For Stucco Embossed, Add	0.03	
			For Corrugated, Add	0.08	
22 07 19 00-0214	LF		1-1/4" ID, 0.040" Aluminum Insulation Jacketing	18.82	3.78
			For Stucco Embossed, Add	0.04	
			For Corrugated, Add	0.09	
22 07 19 00-0215	LF		1-1/2" ID, 0.040" Aluminum Insulation Jacketing	19.62	3.84
			For Stucco Embossed, Add	0.04	
			For Corrugated, Add	0.11	
22 07 19 00-0216	LF		1-3/4" ID, 0.040" Aluminum Insulation Jacketing	20.45	3.90
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.12	
22 07 19 00-0217	LF		2" ID, 0.040" Aluminum Insulation Jacketing	21.35	3.97
			For Stucco Embossed, Add	0.05	
			For Corrugated, Add	0.14	
22 07 19 00-0218	LF		2-1/4" ID, 0.040" Aluminum Insulation Jacketing	22.26	4.06
			For Stucco Embossed, Add	0.06	
			For Corrugated, Add	0.15	
22 07 19 00-0219	LF		2-1/2" ID, 0.040" Aluminum Insulation Jacketing	23.27	4.14
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.17	
22 07 19 00-0220	LF		2-3/4" ID, 0.040" Aluminum Insulation Jacketing	24.12	4.21
			For Stucco Embossed, Add	0.07	
			For Corrugated, Add	0.18	
22 07 19 00-0221	LF		3" ID, 0.040" Aluminum Insulation Jacketing	25.14	4.30
			For Stucco Embossed, Add	0.08	
			For Corrugated, Add	0.20	
22 07 19 00-0222	LF		3-1/4" ID, 0.040" Aluminum Insulation Jacketing	26.13	4.40
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.21	
22 07 19 00-0223	LF		3-1/2" ID, 0.040" Aluminum Insulation Jacketing	27.11	4.50
			For Stucco Embossed, Add	0.09	
			For Corrugated, Add	0.23	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0224	LF	3-3/4" ID, 0.040" Aluminum Insulation Jacketing	.....	28.01	4.58
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.24	
22 07 19 00-0225	LF	4" ID, 0.040" Aluminum Insulation Jacketing	.....	29.04	4.69
		For Stucco Embossed, Add	.....	0.10	
		For Corrugated, Add	.....	0.26	
22 07 19 00-0226	LF	4-1/4" ID, 0.040" Aluminum Insulation Jacketing	.....	30.08	4.82
		For Stucco Embossed, Add	.....	0.11	
		For Corrugated, Add	.....	0.27	
22 07 19 00-0227	LF	4-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	31.24	4.94
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.29	
22 07 19 00-0228	LF	4-3/4" ID, 0.040" Aluminum Insulation Jacketing	.....	32.20	5.03
		For Stucco Embossed, Add	.....	0.12	
		For Corrugated, Add	.....	0.30	
22 07 19 00-0229	LF	5" ID, 0.040" Aluminum Insulation Jacketing	.....	33.31	5.17
		For Stucco Embossed, Add	.....	0.13	
		For Corrugated, Add	.....	0.32	
22 07 19 00-0230	LF	5-1/4" ID, 0.040" Aluminum Insulation Jacketing	.....	34.47	5.31
		For Stucco Embossed, Add	.....	0.13	
		For Corrugated, Add	.....	0.33	
22 07 19 00-0231	LF	5-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	35.49	5.42
		For Stucco Embossed, Add	.....	0.14	
		For Corrugated, Add	.....	0.35	
22 07 19 00-0232	LF	5-3/4" ID, 0.040" Aluminum Insulation Jacketing	.....	36.77	5.57
		For Stucco Embossed, Add	.....	0.14	
		For Corrugated, Add	.....	0.36	
22 07 19 00-0233	LF	6" ID, 0.040" Aluminum Insulation Jacketing	.....	38.03	5.73
		For Stucco Embossed, Add	.....	0.15	
		For Corrugated, Add	.....	0.38	
22 07 19 00-0234	LF	6-1/4" ID, 0.040" Aluminum Insulation Jacketing	.....	38.95	5.82
		For Stucco Embossed, Add	.....	0.16	
		For Corrugated, Add	.....	0.39	
22 07 19 00-0235	LF	6-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	39.88	5.92
		For Stucco Embossed, Add	.....	0.16	
		For Corrugated, Add	.....	0.41	
22 07 19 00-0236	LF	7" ID, 0.040" Aluminum Insulation Jacketing	.....	41.53	6.05
		For Stucco Embossed, Add	.....	0.17	
		For Corrugated, Add	.....	0.43	
22 07 19 00-0237	LF	7-1/4" ID, 0.040" Aluminum Insulation Jacketing	.....	42.68	6.20
		For Stucco Embossed, Add	.....	0.18	
		For Corrugated, Add	.....	0.45	
22 07 19 00-0238	LF	7-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	43.68	6.30
		For Stucco Embossed, Add	.....	0.18	
		For Corrugated, Add	.....	0.46	
22 07 19 00-0239	LF	8" ID, 0.040" Aluminum Insulation Jacketing	.....	45.27	6.41
		For Stucco Embossed, Add	.....	0.20	
		For Corrugated, Add	.....	0.49	
22 07 19 00-0240	LF	8-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	46.85	6.51
		For Stucco Embossed, Add	.....	0.21	
		For Corrugated, Add	.....	0.52	
22 07 19 00-0241	LF	9" ID, 0.040" Aluminum Insulation Jacketing	.....	48.69	6.67
		For Stucco Embossed, Add	.....	0.22	
		For Corrugated, Add	.....	0.55	
22 07 19 00-0242	LF	9-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	50.40	6.79
		For Stucco Embossed, Add	.....	0.23	
		For Corrugated, Add	.....	0.58	
22 07 19 00-0243	LF	10" ID, 0.040" Aluminum Insulation Jacketing	.....	52.04	6.91
		For Stucco Embossed, Add	.....	0.24	
		For Corrugated, Add	.....	0.61	
22 07 19 00-0244	LF	10-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	53.71	7.05
		For Stucco Embossed, Add	.....	0.26	
		For Corrugated, Add	.....	0.64	
22 07 19 00-0245	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	.....	55.66	7.24
		For Stucco Embossed, Add	.....	0.27	
		For Corrugated, Add	.....	0.67	
22 07 19 00-0246	LF	11-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	57.46	7.38
		For Stucco Embossed, Add	.....	0.28	
		For Corrugated, Add	.....	0.70	
22 07 19 00-0247	LF	12" ID, 0.040" Aluminum Insulation Jacketing	.....	59.19	7.52
		For Stucco Embossed, Add	.....	0.29	
		For Corrugated, Add	.....	0.73	
22 07 19 00-0248	LF	12-1/2" ID, 0.040" Aluminum Insulation Jacketing	.....	61.26	7.74
		For Stucco Embossed, Add	.....	0.30	
		For Corrugated, Add	.....	0.76	
22 07 19 00-0249	LF	13" ID, 0.040" Aluminum Insulation Jacketing	.....	62.73	7.82
		For Stucco Embossed, Add	.....	0.31	
		For Corrugated, Add	.....	0.79	
22 07 19 00-0250	LF	14" ID, 0.040" Aluminum Insulation Jacketing	.....	65.46	7.90
		For Stucco Embossed, Add	.....	0.34	
		For Corrugated, Add	.....	0.85	
22 07 19 00-0251	LF	15" ID, 0.040" Aluminum Insulation Jacketing	.....	68.44	8.07
		For Stucco Embossed, Add	.....	0.36	
		For Corrugated, Add	.....	0.90	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0252	LF		16" ID, 0.040" Aluminum Insulation Jacketing	71.19	8.16
			For Stucco Embossed, Add	0.39	
			For Corrugated, Add	0.96	
22 07 19 00-0253	LF		17" ID, 0.040" Aluminum Insulation Jacketing	74.21	8.33
			For Stucco Embossed, Add	0.41	
			For Corrugated, Add	1.02	
22 07 19 00-0254	LF		18" ID, 0.040" Aluminum Insulation Jacketing	76.18	8.42
			For Stucco Embossed, Add	0.43	
			For Corrugated, Add	1.06	
22 07 19 00-0255	LF		19" ID, 0.040" Aluminum Insulation Jacketing	80.05	8.61
			For Stucco Embossed, Add	0.46	
			For Corrugated, Add	1.14	
22 07 19 00-0256	LF		20" ID, 0.040" Aluminum Insulation Jacketing	82.86	8.70
			For Stucco Embossed, Add	0.48	
			For Corrugated, Add	1.20	
22 07 19 00-0257	LF		21" ID, 0.040" Aluminum Insulation Jacketing	85.97	8.90
			For Stucco Embossed, Add	0.50	
			For Corrugated, Add	1.26	
22 07 19 00-0258	LF		22" ID, 0.040" Aluminum Insulation Jacketing	88.72	9.00
			For Stucco Embossed, Add	0.53	
			For Corrugated, Add	1.32	
22 07 19 00-0259	LF		23" ID, 0.040" Aluminum Insulation Jacketing	91.99	9.23
			For Stucco Embossed, Add	0.55	
			For Corrugated, Add	1.38	
22 07 19 00-0260	LF		24" ID, 0.040" Aluminum Insulation Jacketing	94.75	9.33
			For Stucco Embossed, Add	0.57	
			For Corrugated, Add	1.44	
22 07 19 00-0261 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0002)					
22 07 19 00-0262	EA		1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.01	3.61
22 07 19 00-0263	EA		1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.54	3.76
22 07 19 00-0264	EA		2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.11	3.90
22 07 19 00-0265	EA		2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.35	3.96
22 07 19 00-0266	EA		2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.60	4.02
22 07 19 00-0267	EA		2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.99	4.12
22 07 19 00-0268	EA		3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	32.63	4.22
22 07 19 00-0269	EA		3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.06	4.33
22 07 19 00-0270	EA		3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	36.23	4.40
22 07 19 00-0271	EA		3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	37.02	4.48
22 07 19 00-0272	EA		4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	38.40	4.60
22 07 19 00-0273	EA		4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	39.31	4.68
22 07 19 00-0274	EA		4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	39.65	4.77
22 07 19 00-0275	EA		4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.02	4.87
22 07 19 00-0276	EA		5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	43.03	4.97
22 07 19 00-0277	EA		5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	46.97	5.07
22 07 19 00-0278	EA		5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	54.17	5.22
22 07 19 00-0279	EA		5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	54.61	5.33
22 07 19 00-0280	EA		6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.41	5.50
22 07 19 00-0281	EA		6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	50.90	5.62
22 07 19 00-0282	EA		6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	57.48	5.81
22 07 19 00-0283	EA		7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	65.33	5.96
22 07 19 00-0284	EA		7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	65.62	6.03
22 07 19 00-0285	EA		7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	85.44	6.10
22 07 19 00-0286	EA		8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	70.21	6.18
22 07 19 00-0287	EA		8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	109.42	6.33
22 07 19 00-0288	EA		9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	110.06	6.49
22 07 19 00-0289	EA		9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	88.16	6.57
22 07 19 00-0290	EA		10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	88.51	6.66
22 07 19 00-0291	EA		10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.20	6.75
22 07 19 00-0292	EA		11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.57	6.84
22 07 19 00-0293	EA		11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	99.96	7.04
22 07 19 00-0294	EA		12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	100.36	7.13
22 07 19 00-0295	EA		12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	157.23	7.34
22 07 19 00-0296	EA		13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	157.66	7.45
22 07 19 00-0297	EA		14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	202.17	7.67
22 07 19 00-0298	EA		15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	210.92	7.91
22 07 19 00-0299	EA		16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	227.71	8.04
22 07 19 00-0300	EA		2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.07	4.02
22 07 19 00-0301	EA		2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.46	4.12
22 07 19 00-0302	EA		3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.44	4.22
22 07 19 00-0303	EA		3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	30.87	4.33
22 07 19 00-0304	EA		3-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.08	4.40
22 07 19 00-0305	EA		3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.39	4.48
22 07 19 00-0306	EA		4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	34.13	4.60
22 07 19 00-0307	EA		4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	36.70	4.68
22 07 19 00-0308	EA		4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.04	4.77
22 07 19 00-0309	EA		4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.41	4.87
22 07 19 00-0310	EA		5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	40.93	4.97
22 07 19 00-0311	EA		5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	41.32	5.07
22 07 19 00-0312	EA		5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	42.97	5.22
22 07 19 00-0313	EA		6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	44.10	5.50



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
22 07 19 00-0314	EA	6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	53.79	5.81
22 07 19 00-0315	EA	7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	54.33	5.96
22 07 19 00-0316	EA	7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	55.19	6.10
22 07 19 00-0317	EA	8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	55.48	6.18
22 07 19 00-0318	EA	8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	63.62	6.33
22 07 19 00-0319	EA	9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	64.26	6.49
22 07 19 00-0320	EA	9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	79.46	6.57
22 07 19 00-0321	EA	10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	79.81	6.66
22 07 19 00-0322	EA	10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	76.72	6.75
22 07 19 00-0323	EA	11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	77.09	6.84
22 07 19 00-0324	EA	11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	87.85	7.04
22 07 19 00-0325	EA	12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	88.25	7.13
22 07 19 00-0326	EA	13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	99.89	7.45
22 07 19 00-0327	EA	14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	116.71	7.67
22 07 19 00-0328	EA	15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	164.18	7.91
22 07 19 00-0329	EA	16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	175.83	8.04
22 07 19 00-0330	EA	17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	172.97	8.17
22 07 19 00-0331	EA	18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	193.23	8.30
22 07 19 00-0332	EA	19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	229.24	8.44
22 07 19 00-0333	EA	20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	223.38	8.58
22 07 19 00-0334	EA	21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	239.02	8.73
22 07 19 00-0335	EA	2-1/2" ID, Aluminum Tee Insulation Jacketing	105.41	5.75
22 07 19 00-0336	EA	2-3/4" ID, Aluminum Tee Insulation Jacketing	105.94	5.89
22 07 19 00-0337	EA	3" ID, Aluminum Tee Insulation Jacketing	117.19	6.03
22 07 19 00-0338	EA	3-1/4" ID, Aluminum Tee Insulation Jacketing	117.77	6.18
22 07 19 00-0339	EA	3-1/2" ID Aluminum Tee Insulation Jacketing	122.86	6.33
22 07 19 00-0340	EA	4" ID, Aluminum Tee Insulation Jacketing	124.56	6.49
22 07 19 00-0341	EA	4-1/4" ID, Aluminum Tee Insulation Jacketing	130.93	6.66
22 07 19 00-0342	EA	4-1/2" ID, Aluminum Tee Insulation Jacketing	130.80	6.84
22 07 19 00-0343	EA	4-3/4" ID, Aluminum Tee Insulation Jacketing	131.55	7.04
22 07 19 00-0344	EA	5" ID, Aluminum Tee Insulation Jacketing	136.22	7.23
22 07 19 00-0345	EA	5-1/4" ID, Aluminum Tee Insulation Jacketing	137.07	7.45
22 07 19 00-0346	EA	5-1/2" ID, Aluminum Tee Insulation Jacketing	142.72	7.67
22 07 19 00-0347	EA	6" ID, Aluminum Tee Insulation Jacketing	143.68	7.91
22 07 19 00-0348	EA	6-1/2" ID, Aluminum Tee Insulation Jacketing	156.83	8.44
22 07 19 00-0349	EA	7" ID, Aluminum Tee Insulation Jacketing	157.99	8.73
22 07 19 00-0350	EA	7-1/2" ID, Aluminum Tee Insulation Jacketing	173.02	9.04
22 07 19 00-0351	EA	8" ID, Aluminum Tee Insulation Jacketing	174.36	9.38
22 07 19 00-0352	EA	8-1/2" ID, Aluminum Tee Insulation Jacketing	179.42	9.73
22 07 19 00-0353	EA	9" ID, Aluminum Tee Insulation Jacketing	180.97	10.13
22 07 19 00-0354	EA	9-1/2" ID, Aluminum Tee Insulation Jacketing	145.58	10.34
22 07 19 00-0355	EA	10" ID, Aluminum Tee Insulation Jacketing	146.44	10.55
22 07 19 00-0356	EA	10-1/2" ID, Aluminum Tee Insulation Jacketing	154.13	10.77
22 07 19 00-0357	EA	11" ID, Aluminum Tee Insulation Jacketing	155.07	11.00
22 07 19 00-0358	EA	11-1/2" ID, Aluminum Tee Insulation Jacketing	162.10	11.25
22 07 19 00-0359	EA	12" ID, Aluminum Tee Insulation Jacketing	163.12	11.51
22 07 19 00-0360	EA	13" ID, Aluminum Tee Insulation Jacketing	170.02	11.77
22 07 19 00-0361	EA	14" ID, Aluminum Tee Insulation Jacketing	177.17	12.05
22 07 19 00-0362	EA	15" ID, Aluminum Tee Insulation Jacketing	188.87	12.35
22 07 19 00-0363	EA	16" ID, Aluminum Tee Insulation Jacketing	193.60	12.66
22 07 19 00-0364	EA	17" ID, Aluminum Tee Insulation Jacketing	216.31	12.98
22 07 19 00-0365	EA	18" ID, Aluminum Tee Insulation Jacketing	224.07	13.33
22 07 19 00-0366	EA	19" ID, Aluminum Tee Insulation Jacketing	243.59	13.68
22 07 19 00-0367	EA	20" ID, Aluminum Tee Insulation Jacketing	249.23	14.06
22 07 19 00-0368	EA	22" ID, Aluminum Tee Insulation Jacketing	303.35	14.47
22 07 19 00-0369	EA	23" ID, Aluminum Tee Insulation Jacketing	311.88	14.89
22 07 19 00-0370	EA	24" ID, Aluminum Tee Insulation Jacketing	324.20	16.33
22 07 19 00-0371	Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0001)			
22 07 19 00-0372	Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0371)			
22 07 19 00-0373	SF	0.010" Stainless Steel Insulation Jacket With Bands	23.94	9.49
22 07 19 00-0374	SF	0.016" Stainless Steel Insulation Jacket With Bands	29.43	11.39
22 07 19 00-0375	10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)			
22 07 19 00-0376	LF	2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	12.27	2.03
22 07 19 00-0377	LF	2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	12.81	2.07
22 07 19 00-0378	LF	3" ID, 0.010" Stainless Steel Insulation Jacketing	13.34	2.11
22 07 19 00-0379	LF	3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	13.91	2.15
22 07 19 00-0380	LF	3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	14.45	2.20
22 07 19 00-0381	LF	3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	15.02	2.25
22 07 19 00-0382	LF	4" ID, 0.010" Stainless Steel Insulation Jacketing	15.60	2.30
22 07 19 00-0383	LF	4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	16.18	2.35
22 07 19 00-0384	LF	4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	16.77	2.41
22 07 19 00-0385	LF	5" ID, 0.010" Stainless Steel Insulation Jacketing	18.01	2.53
22 07 19 00-0386	LF	5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	19.27	2.66
22 07 19 00-0387	LF	6" ID, 0.010" Stainless Steel Insulation Jacketing	20.60	2.82

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0388	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.66	2.90
22 07 19 00-0389	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing.....	22.75	2.98
22 07 19 00-0390	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.92	3.09
22 07 19 00-0391	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing.....	24.89	3.15
22 07 19 00-0392	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	25.87	3.20
22 07 19 00-0393	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing.....	26.86	3.27
22 07 19 00-0394	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	27.86	3.33
22 07 19 00-0395	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing.....	28.86	3.40
22 07 19 00-0396	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	29.89	3.47
22 07 19 00-0397	LF	11" ID, 0.010" Stainless Steel Insulation Jacketing.....	30.92	3.54
22 07 19 00-0398	LF	12" ID, 0.010" Stainless Steel Insulation Jacketing.....	33.01	3.69
22 07 19 00-0399	LF	13" ID, 0.010" Stainless Steel Insulation Jacketing.....	35.06	3.84
22 07 19 00-0400	LF	14" ID, 0.010" Stainless Steel Insulation Jacketing.....	36.77	3.90
22 07 19 00-0401		16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0371)		
22 07 19 00-0402	LF	2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	16.81	2.70
22 07 19 00-0403	LF	2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.57	2.75
22 07 19 00-0404	LF	3" ID, 0.016" Stainless Steel Insulation Jacketing.....	18.34	2.81
22 07 19 00-0405	LF	3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	19.12	2.87
22 07 19 00-0406	LF	3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	19.91	2.93
22 07 19 00-0407	LF	3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	20.70	2.99
22 07 19 00-0408	LF	4" ID, 0.016" Stainless Steel Insulation Jacketing.....	21.51	3.06
22 07 19 00-0409	LF	4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	22.33	3.13
22 07 19 00-0410	LF	4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	23.16	3.21
22 07 19 00-0411	LF	5" ID, 0.016" Stainless Steel Insulation Jacketing.....	24.89	3.37
22 07 19 00-0412	LF	5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	26.66	3.54
22 07 19 00-0413	LF	6" ID, 0.016" Stainless Steel Insulation Jacketing.....	28.52	3.75
22 07 19 00-0414	LF	6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	30.01	3.85
22 07 19 00-0415	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing.....	31.56	3.96
22 07 19 00-0416	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	33.20	4.11
22 07 19 00-0417	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing.....	34.58	4.18
22 07 19 00-0418	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	35.97	4.26
22 07 19 00-0419	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing.....	37.37	4.34
22 07 19 00-0420	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	38.79	4.43
22 07 19 00-0421	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing.....	40.22	4.52
22 07 19 00-0422	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	41.67	4.61
22 07 19 00-0423	LF	11" ID, 0.016" Stainless Steel Insulation Jacketing.....	43.14	4.70
22 07 19 00-0424	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing.....	46.09	4.92
22 07 19 00-0425	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing.....	48.99	5.10
22 07 19 00-0426	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing.....	51.43	5.18
22 07 19 00-0427		Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0371)		
22 07 19 00-0428	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	34.47	4.02
22 07 19 00-0429	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	34.86	4.12
22 07 19 00-0430	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.12	4.22
22 07 19 00-0431	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.55	4.33
22 07 19 00-0432	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	37.83	4.40
22 07 19 00-0433	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	39.28	4.48
22 07 19 00-0434	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	41.89	4.60
22 07 19 00-0435	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	49.97	4.68
22 07 19 00-0436	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	50.31	4.77
22 07 19 00-0437	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	51.80	4.97
22 07 19 00-0438	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	68.48	5.22
22 07 19 00-0439	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	74.27	5.50
22 07 19 00-0440	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	95.21	5.81
22 07 19 00-0441	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	95.75	5.96
22 07 19 00-0442	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	108.39	6.10
22 07 19 00-0443	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	109.31	6.33
22 07 19 00-0444	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	112.16	6.33
22 07 19 00-0445	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	158.05	6.49
22 07 19 00-0446	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	156.09	6.57
22 07 19 00-0447	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	156.44	6.66
22 07 19 00-0448	EA	10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	182.29	6.75
22 07 19 00-0449	EA	11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	175.61	6.84
22 07 19 00-0450	EA	12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	196.82	7.13
22 07 19 00-0451	EA	13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	262.95	7.45
22 07 19 00-0452	EA	14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	265.42	7.67
22 07 19 00-0453	EA	2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	31.41	4.02
22 07 19 00-0454	EA	2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	31.80	4.12
22 07 19 00-0455	EA	3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	33.39	4.22
22 07 19 00-0456	EA	3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	33.82	4.33
22 07 19 00-0457	EA	3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	34.32	4.40
22 07 19 00-0458	EA	3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	34.63	4.48
22 07 19 00-0459	EA	4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	39.89	4.60
22 07 19 00-0460	EA	4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	48.91	4.68
22 07 19 00-0461	EA	4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	49.25	4.77
22 07 19 00-0462	EA	4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	49.62	4.87



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
22 07 19 00-0463	EA	5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	50.53	4.97
22 07 19 00-0464	EA	5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.55	5.22
22 07 19 00-0465	EA	6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	58.39	5.50
22 07 19 00-0466	EA	6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	59.66	5.81
22 07 19 00-0467	EA	7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	85.38	5.96
22 07 19 00-0468	EA	7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	87.23	6.10
22 07 19 00-0469	EA	8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	87.52	6.18
22 07 19 00-0470	EA	8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.84	6.33
22 07 19 00-0471	EA	9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	99.48	6.49
22 07 19 00-0472	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	112.61	6.57
22 07 19 00-0473	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	112.96	6.66
22 07 19 00-0474	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	130.73	6.75
22 07 19 00-0475	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	131.10	6.84
22 07 19 00-0476	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	141.17	7.13
22 07 19 00-0477	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	162.34	7.45
22 07 19 00-0478	Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0001)			
22 07 19 00-0479	20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)			
22 07 19 00-0480	LF	1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	8.71	1.88
22 07 19 00-0481	LF	2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	9.40	1.95
22 07 19 00-0482	LF	2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.02	2.03
22 07 19 00-0483	LF	3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.76	2.11
22 07 19 00-0484	LF	3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.42	2.20
22 07 19 00-0485	LF	4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.18	2.30
22 07 19 00-0486	LF	4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.97	2.41
22 07 19 00-0487	LF	5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.76	2.53
22 07 19 00-0488	LF	5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.64	2.66
22 07 19 00-0489	LF	6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.58	2.82
22 07 19 00-0490	LF	6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.26	2.90
22 07 19 00-0491	LF	7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.90	2.98
22 07 19 00-0492	LF	7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.74	3.09
22 07 19 00-0493	LF	8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.27	3.15
22 07 19 00-0494	LF	8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.87	3.20
22 07 19 00-0495	LF	9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.46	3.27
22 07 19 00-0496	LF	9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.08	3.33
22 07 19 00-0497	LF	10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.65	3.40
22 07 19 00-0498	LF	10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.28	3.47
22 07 19 00-0499	LF	11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.92	3.54
22 07 19 00-0500	LF	11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.58	3.61
22 07 19 00-0501	LF	12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.20	3.69
22 07 19 00-0502	LF	12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.93	3.78
22 07 19 00-0503	LF	13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.46	3.84
22 07 19 00-0504	LF	13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.81	3.84
22 07 19 00-0505	LF	14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.41	3.90
22 07 19 00-0506	LF	15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	26.35	3.96
22 07 19 00-0507	LF	16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.26	4.02
22 07 19 00-0508	LF	17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	28.22	4.08
22 07 19 00-0509	LF	18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	29.20	4.15
22 07 19 00-0510	LF	19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.13	4.22
22 07 19 00-0511	LF	20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	31.12	4.29
22 07 19 00-0512	LF	21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	32.06	4.36
22 07 19 00-0513	LF	22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	33.09	4.44
22 07 19 00-0514	LF	23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	34.06	4.52
22 07 19 00-0515	LF	24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	35.09	4.60
22 07 19 00-0516	LF	25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	36.15	4.68
22 07 19 00-0517	LF	26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	37.14	4.77
22 07 19 00-0518	LF	27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	38.22	4.87
22 07 19 00-0519	LF	28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	39.26	4.97
22 07 19 00-0520	LF	29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	40.36	5.07
22 07 19 00-0521	LF	30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	41.47	5.17
22 07 19 00-0522	30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0478)			
22 07 19 00-0523	LF	2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.16	1.95
22 07 19 00-0524	LF	2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	10.97	2.03
22 07 19 00-0525	LF	3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	11.87	2.11
22 07 19 00-0526	LF	3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.68	2.20
22 07 19 00-0527	LF	4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.59	2.30
22 07 19 00-0528	LF	4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.53	2.41
22 07 19 00-0529	LF	5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.52	2.53
22 07 19 00-0530	LF	5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.56	2.66
22 07 19 00-0531	LF	6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.65	2.82
22 07 19 00-0532	LF	6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.47	2.90
22 07 19 00-0533	LF	7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.32	2.98
22 07 19 00-0534	LF	7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.31	3.09
22 07 19 00-0535	LF	8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.05	3.15
22 07 19 00-0536	LF	8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.79	3.20
22 07 19 00-0537	LF	9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.53	3.27
22 07 19 00-0538	LF	9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.31	3.33

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 07 19 00-0539	LF	10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.07	3.40
22 07 19 00-0540	LF	10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	24.86	3.47
22 07 19 00-0541	LF	11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.65	3.54
22 07 19 00-0542	LF	11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.46	3.61
22 07 19 00-0543	LF	12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	27.28	3.69
22 07 19 00-0544	LF	12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.16	3.78
22 07 19 00-0545	LF	13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.90	3.84
22 07 19 00-0546	LF	13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.40	3.84
22 07 19 00-0547	LF	14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	30.14	3.90
22 07 19 00-0548	LF	15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	31.39	3.96
22 07 19 00-0549	LF	16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	32.65	4.02
22 07 19 00-0550	LF	17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	33.92	4.08
22 07 19 00-0551	LF	18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	35.25	4.15
22 07 19 00-0552	LF	19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	36.53	4.22
22 07 19 00-0553	LF	20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	37.82	4.29
22 07 19 00-0554	LF	21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	39.12	4.36
22 07 19 00-0555	LF	22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	40.45	4.44
22 07 19 00-0556	LF	23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	41.77	4.52
22 07 19 00-0557	LF	24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	43.10	4.60
22 07 19 00-0558	LF	25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	44.51	4.68
22 07 19 00-0559	LF	26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	45.86	4.77
22 07 19 00-0560	LF	27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	47.24	4.87
22 07 19 00-0561	LF	28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	48.64	4.97
22 07 19 00-0562	LF	29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	50.03	5.07
22 07 19 00-0563	LF	30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	51.45	5.17

22 07 19 00-0564 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-

22 07 19 00-0565	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	17.77	3.76
22 07 19 00-0566	EA	2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.01	3.90
22 07 19 00-0567	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.65	3.96
22 07 19 00-0568	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.30	4.02
22 07 19 00-0569	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.05	4.12
22 07 19 00-0570	EA	3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.72	4.22
22 07 19 00-0571	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.94	4.36
22 07 19 00-0572	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.07	4.48
22 07 19 00-0573	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	26.17	4.60
22 07 19 00-0574	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	28.66	4.83
22 07 19 00-0575	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	31.19	5.07
22 07 19 00-0576	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	35.73	5.33
22 07 19 00-0577	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	46.54	5.62
22 07 19 00-0578	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	48.58	5.81
22 07 19 00-0579	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	55.52	5.96
22 07 19 00-0580	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	57.66	6.10
22 07 19 00-0581	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	68.11	6.33
22 07 19 00-0582	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	83.45	6.57
22 07 19 00-0583	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	91.17	6.84
22 07 19 00-0584	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	101.64	7.13
22 07 19 00-0585	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	122.11	7.45
22 07 19 00-0586	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	136.21	7.67
22 07 19 00-0587	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	145.03	7.91
22 07 19 00-0588	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	155.91	8.04
22 07 19 00-0589	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	170.00	8.17
22 07 19 00-0590	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	210.34	8.30
22 07 19 00-0591	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	274.25	8.44
22 07 19 00-0592	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	343.40	8.58
22 07 19 00-0593	EA	1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	17.77	3.76
22 07 19 00-0594	EA	2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.01	3.90
22 07 19 00-0595	EA	2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.65	3.96
22 07 19 00-0596	EA	2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.30	4.02
22 07 19 00-0597	EA	2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.05	4.12
22 07 19 00-0598	EA	3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.72	4.22
22 07 19 00-0599	EA	3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.94	4.36
22 07 19 00-0600	EA	3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.07	4.48
22 07 19 00-0601	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	26.17	4.60
22 07 19 00-0602	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	28.66	4.83
22 07 19 00-0603	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	31.19	5.07
22 07 19 00-0604	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	35.73	5.33
22 07 19 00-0605	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	46.54	5.62
22 07 19 00-0606	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	48.58	5.81
22 07 19 00-0607	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	55.52	5.96
22 07 19 00-0608	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	57.66	6.10
22 07 19 00-0609	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	68.11	6.33
22 07 19 00-0610	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	83.45	6.57
22 07 19 00-0611	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	91.12	6.84
22 07 19 00-0612	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	98.82	7.13
22 07 19 00-0613	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	108.25	7.45
22 07 19 00-0614	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	120.33	7.67
22 07 19 00-0615	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	127.85	7.91
22 07 19 00-0616	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	142.00	8.04
22 07 19 00-0617	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	156.39	8.17



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0618	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	184.39	8.30
22 07 19 00-0619	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	239.98	8.44
22 07 19 00-0620	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	267.91	8.58
22 07 19 00-0621	EA	1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	26.34	5.27
22 07 19 00-0622	EA	2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	27.49	5.39
22 07 19 00-0623	EA	2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	28.70	5.56
22 07 19 00-0624	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	30.08	5.75
22 07 19 00-0625	EA	2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	31.58	5.96
22 07 19 00-0626	EA	3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	33.11	6.18
22 07 19 00-0627	EA	3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	35.31	6.41
22 07 19 00-0628	EA	3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	37.64	6.66
22 07 19 00-0629	EA	4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	40.74	6.94
22 07 19 00-0630	EA	4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	45.11	7.23
22 07 19 00-0631	EA	5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	49.67	7.56
22 07 19 00-0632	EA	5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	57.99	8.04
22 07 19 00-0633	EA	6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	67.73	8.44
22 07 19 00-0634	EA	6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	76.35	8.58
22 07 19 00-0635	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	103.45	8.88
22 07 19 00-0636	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	111.99	9.38
22 07 19 00-0637	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	129.56	9.73
22 07 19 00-0638	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	147.34	10.13
22 07 19 00-0639	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	150.29	10.55
22 07 19 00-0640	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	163.17	10.77
22 07 19 00-0641	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	176.11	11.00
22 07 19 00-0642	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	189.18	11.25
22 07 19 00-0643	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	202.15	11.51
22 07 19 00-0644	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	215.26	11.77
22 07 19 00-0645	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	228.27	12.05
22 07 19 00-0646	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	247.60	12.35
22 07 19 00-0647	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	266.88	12.66
22 07 19 00-0648	EA	20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	290.20	12.98
22 07 19 00-0649	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	36.39	3.61
22 07 19 00-0650	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	36.39	3.61
22 07 19 00-0651	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	42.77	3.76
22 07 19 00-0652	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	42.77	3.76
22 07 19 00-0653	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	59.37	3.90
22 07 19 00-0654	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	64.83	4.05
22 07 19 00-0655	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	71.36	4.22
22 07 19 00-0656	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	80.66	4.40
22 07 19 00-0657	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	88.66	4.60
22 07 19 00-0658	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	107.59	5.07
22 07 19 00-0659	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	151.51	5.62
22 07 19 00-0660	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	165.82	6.33
22 07 19 00-0661	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	206.76	6.75
22 07 19 00-0662	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	288.31	7.45
22 07 19 00-0663	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	290.13	7.79
22 07 19 00-0664	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	384.36	8.04
22 07 19 00-0665	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	517.61	8.30
22 07 19 00-0666	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	33.97	3.61
22 07 19 00-0667	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	33.97	3.61
22 07 19 00-0668	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	39.85	3.76
22 07 19 00-0669	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	39.85	3.76
22 07 19 00-0670	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	54.59	3.90
22 07 19 00-0671	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	59.49	4.05
22 07 19 00-0672	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	65.51	4.22
22 07 19 00-0673	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	68.91	4.40
22 07 19 00-0674	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	80.90	4.60
22 07 19 00-0675	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	97.96	5.07
22 07 19 00-0676	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	137.35	5.62
22 07 19 00-0677	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	150.30	6.33
22 07 19 00-0678	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	187.01	6.75
22 07 19 00-0679	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	260.04	7.45
22 07 19 00-0680	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	330.65	7.79
22 07 19 00-0681	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	394.99	8.04
22 07 19 00-0682	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	461.47	8.30
22 07 19 00-0683	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	50.34	5.44
22 07 19 00-0684	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	50.34	5.44
22 07 19 00-0685	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	58.58	5.62
22 07 19 00-0686	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	58.58	5.62
22 07 19 00-0687	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	80.18	5.81
22 07 19 00-0688	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	87.41	6.03
22 07 19 00-0689	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	96.13	6.33
22 07 19 00-0690	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	101.34	6.57
22 07 19 00-0691	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	119.36	6.94
22 07 19 00-0692	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	131.16	7.56
22 07 19 00-0693	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	183.08	8.44
22 07 19 00-0694	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	199.37	9.38
22 07 19 00-0695	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	274.24	10.13
22 07 19 00-0696	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	380.01	11.00
22 07 19 00-0697	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	452.93	11.77
22 07 19 00-0698	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	535.04	12.05

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0699 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	585.70	12.35
22 07 19 00-0700 Insulation Foam Rubber (22 07 19)		
22 07 19 00-0701 Covering 4x6 Sheet (22 07 19 00-0700)		
22 07 19 00-0702 SF 1" Thick Foam Rubber Sheet Insulation	26.08	8.98
22 07 19 00-0703 Fiberglass (Glass Fiber) Pipe Insulation (22 07 19)		
Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0704 1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0705 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.62	2.79
For Single Layer Of Felt Finish, Add	0.22	
For Work In Restricted Working Space, Add	2.26	
22 07 19 00-0706 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.85	2.79
For Single Layer Of Felt Finish, Add	0.24	
For Work In Restricted Working Space, Add	2.26	
22 07 19 00-0707 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.48	2.91
For Single Layer Of Felt Finish, Add	0.26	
For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0708 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.87	3.04
For Single Layer Of Felt Finish, Add	0.29	
For Work In Restricted Working Space, Add	2.44	
22 07 19 00-0709 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.20	3.04
For Single Layer Of Felt Finish, Add	0.31	
For Work In Restricted Working Space, Add	2.49	
22 07 19 00-0710 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.85	3.16
For Single Layer Of Felt Finish, Add	0.33	
For Work In Restricted Working Space, Add	2.62	
22 07 19 00-0711 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.46	3.29
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	2.67	
22 07 19 00-0712 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.18	3.42
For Single Layer Of Felt Finish, Add	0.42	
For Work In Restricted Working Space, Add	2.76	
22 07 19 00-0713 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.05	3.67
For Single Layer Of Felt Finish, Add	0.54	
For Work In Restricted Working Space, Add	2.98	
22 07 19 00-0714 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.79	4.30
For Single Layer Of Felt Finish, Add	0.65	
For Work In Restricted Working Space, Add	3.48	
22 07 19 00-0715 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0716 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.89	3.80
For Single Layer Of Felt Finish, Add	0.26	
For Work In Restricted Working Space, Add	3.12	
22 07 19 00-0717 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.25	3.80
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	3.12	
22 07 19 00-0718 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.46	3.80
For Single Layer Of Felt Finish, Add	0.31	
For Work In Restricted Working Space, Add	3.17	
22 07 19 00-0719 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.99	3.93
For Single Layer Of Felt Finish, Add	0.35	
For Work In Restricted Working Space, Add	3.21	
22 07 19 00-0720 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.38	3.93
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	3.26	
22 07 19 00-0721 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.01	4.05
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	3.35	
22 07 19 00-0722 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.85	4.30
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	3.48	
22 07 19 00-0723 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.70	4.43
For Single Layer Of Felt Finish, Add	0.50	
For Work In Restricted Working Space, Add	3.57	
22 07 19 00-0724 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.00	4.68
For Single Layer Of Felt Finish, Add	0.65	
For Work In Restricted Working Space, Add	3.84	
22 07 19 00-0725 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.03	5.44
For Single Layer Of Felt Finish, Add	0.80	
For Work In Restricted Working Space, Add	4.34	
22 07 19 00-0726 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.40	6.08
For Single Layer Of Felt Finish, Add	1.14	
For Work In Restricted Working Space, Add	4.97	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 07 19 00-0727	LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.21		7.22
	For Single Layer Of Felt Finish, Add	1.33		
	For Work In Restricted Working Space, Add	5.87		
22 07 19 00-0728	LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.94		8.23
	For Single Layer Of Felt Finish, Add	1.51		
	For Work In Restricted Working Space, Add	6.78		
22 07 19 00-0729	LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.01		8.98
	For Single Layer Of Felt Finish, Add	1.75		
	For Work In Restricted Working Space, Add	7.02		
22 07 19 00-0730 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)				
22 07 19 00-0731	LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.88		3.91
	For Single Layer Of Felt Finish, Add	0.53		
	For Work In Restricted Working Space, Add	3.25		
22 07 19 00-0732	LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.11		3.91
	For Single Layer Of Felt Finish, Add	0.55		
	For Work In Restricted Working Space, Add	3.25		
22 07 19 00-0733	LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.03		4.14
	For Single Layer Of Felt Finish, Add	0.58		
	For Work In Restricted Working Space, Add	3.44		
22 07 19 00-0734	LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.66		4.23
	For Single Layer Of Felt Finish, Add	0.63		
	For Work In Restricted Working Space, Add	3.51		
22 07 19 00-0735	LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.20		4.30
	For Single Layer Of Felt Finish, Add	0.66		
	For Work In Restricted Working Space, Add	3.57		
22 07 19 00-0736	LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.43		4.53
	For Single Layer Of Felt Finish, Add	0.72		
	For Work In Restricted Working Space, Add	3.77		
22 07 19 00-0737	LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.32		4.60
	For Single Layer Of Felt Finish, Add	0.79		
	For Work In Restricted Working Space, Add	3.83		
22 07 19 00-0738	LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.98		4.77
	For Single Layer Of Felt Finish, Add	0.82		
	For Work In Restricted Working Space, Add	3.96		
22 07 19 00-0739	LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.20		5.17
	For Single Layer Of Felt Finish, Add	0.94		
	For Work In Restricted Working Space, Add	4.29		
22 07 19 00-0740	LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.85		6.03
	For Single Layer Of Felt Finish, Add	1.07		
	For Work In Restricted Working Space, Add	5.01		
22 07 19 00-0741	LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.33		6.35
	For Single Layer Of Felt Finish, Add	1.34		
	For Work In Restricted Working Space, Add	5.28		
22 07 19 00-0742	LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.13		7.61
	For Single Layer Of Felt Finish, Add	1.69		
	For Work In Restricted Working Space, Add	6.32		
22 07 19 00-0743	LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.01		8.86
	For Single Layer Of Felt Finish, Add	1.83		
	For Work In Restricted Working Space, Add	7.36		
22 07 19 00-0744	LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.12		9.71
	For Single Layer Of Felt Finish, Add	2.12		
	For Work In Restricted Working Space, Add	8.07		
22 07 19 00-0745 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)				
22 07 19 00-0746	LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.82		4.30
	For Single Layer Of Felt Finish, Add	0.83		
	For Work In Restricted Working Space, Add	3.57		
22 07 19 00-0747	LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.09		4.30
	For Single Layer Of Felt Finish, Add	0.86		
	For Work In Restricted Working Space, Add	3.57		
22 07 19 00-0748	LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.80		4.43
	For Single Layer Of Felt Finish, Add	0.92		
	For Work In Restricted Working Space, Add	3.62		
22 07 19 00-0749	LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.45		4.43
	For Single Layer Of Felt Finish, Add	0.97		
	For Work In Restricted Working Space, Add	3.66		
22 07 19 00-0750	LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.14		4.55
	For Single Layer Of Felt Finish, Add	1.03		
	For Work In Restricted Working Space, Add	3.71		
22 07 19 00-0751	LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.97		4.68
	For Single Layer Of Felt Finish, Add	1.07		
	For Work In Restricted Working Space, Add	3.84		
22 07 19 00-0752	LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.17		4.81
	For Single Layer Of Felt Finish, Add	1.15		
	For Work In Restricted Working Space, Add	3.98		
22 07 19 00-0753	LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.48		5.07
	For Single Layer Of Felt Finish, Add	1.24		
	For Work In Restricted Working Space, Add	4.11		
22 07 19 00-0754	LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.95		5.32
	For Single Layer Of Felt Finish, Add	1.42		
	For Work In Restricted Working Space, Add	4.34		

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0755	LF		6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.02	6.24
			For Single Layer Of Felt Finish, Add	1.65	
			For Work In Restricted Working Space, Add	5.21	
22 07 19 00-0756	LF		8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.68	6.59
			For Single Layer Of Felt Finish, Add	2.03	
			For Work In Restricted Working Space, Add	5.49	
22 07 19 00-0757	LF		10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.10	7.88
			For Single Layer Of Felt Finish, Add	2.43	
			For Work In Restricted Working Space, Add	6.58	
22 07 19 00-0758	LF		12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	51.70	9.46
			For Single Layer Of Felt Finish, Add	2.67	
			For Work In Restricted Working Space, Add	7.88	
22 07 19 00-0759	LF		14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.39	10.32
			For Single Layer Of Felt Finish, Add	3.02	
			For Work In Restricted Working Space, Add	10.99	
22 07 19 00-0760	LF		16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	69.38	12.08
			For Single Layer Of Felt Finish, Add	3.44	
			For Work In Restricted Working Space, Add	10.99	
22 07 19 00-0761	LF		18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	77.38	12.70
			For Single Layer Of Felt Finish, Add	4.09	
			For Work In Restricted Working Space, Add	11.54	
22 07 19 00-0762	LF		20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	87.63	14.51
			For Single Layer Of Felt Finish, Add	4.59	
			For Work In Restricted Working Space, Add	13.19	
22 07 19 00-0763	LF		24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	101.54	17.53
			For Single Layer Of Felt Finish, Add	5.09	
			For Work In Restricted Working Space, Add	15.93	
22 07 19 00-0764 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)					
22 07 19 00-0765	LF		1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.74	5.07
			For Single Layer Of Felt Finish, Add	1.16	
			For Work In Restricted Working Space, Add	4.12	
22 07 19 00-0766	LF		3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.12	5.07
			For Single Layer Of Felt Finish, Add	1.20	
			For Work In Restricted Working Space, Add	4.12	
22 07 19 00-0767	LF		1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.17	5.07
			For Single Layer Of Felt Finish, Add	1.28	
			For Work In Restricted Working Space, Add	4.19	
22 07 19 00-0768	LF		1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.95	5.19
			For Single Layer Of Felt Finish, Add	1.35	
			For Work In Restricted Working Space, Add	4.22	
22 07 19 00-0769	LF		1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.78	5.19
			For Single Layer Of Felt Finish, Add	1.43	
			For Work In Restricted Working Space, Add	4.25	
22 07 19 00-0770	LF		2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.93	5.44
			For Single Layer Of Felt Finish, Add	1.49	
			For Work In Restricted Working Space, Add	4.43	
22 07 19 00-0771	LF		2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.60	5.57
			For Single Layer Of Felt Finish, Add	1.61	
			For Work In Restricted Working Space, Add	4.58	
22 07 19 00-0772	LF		3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.12	5.82
			For Single Layer Of Felt Finish, Add	1.71	
			For Work In Restricted Working Space, Add	4.74	
22 07 19 00-0773	LF		4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.67	6.08
			For Single Layer Of Felt Finish, Add	2.00	
			For Work In Restricted Working Space, Add	5.00	
22 07 19 00-0774	LF		6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.91	6.45
			For Single Layer Of Felt Finish, Add	2.31	
			For Work In Restricted Working Space, Add	5.68	
22 07 19 00-0775	LF		8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	55.31	7.72
			For Single Layer Of Felt Finish, Add	3.59	
			For Work In Restricted Working Space, Add	6.33	
22 07 19 00-0776	LF		10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.20	8.86
			For Single Layer Of Felt Finish, Add	4.40	
			For Work In Restricted Working Space, Add	7.30	
22 07 19 00-0777	LF		12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.81	11.01
			For Single Layer Of Felt Finish, Add	4.68	
			For Work In Restricted Working Space, Add	9.07	
22 07 19 00-0778	LF		14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	84.80	12.15
			For Single Layer Of Felt Finish, Add	5.44	
			For Work In Restricted Working Space, Add	9.90	
22 07 19 00-0779	LF		16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	99.26	15.44
			For Single Layer Of Felt Finish, Add	5.99	
			For Work In Restricted Working Space, Add	12.66	
22 07 19 00-0780	LF		18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	106.92	16.20
			For Single Layer Of Felt Finish, Add	6.58	
			For Work In Restricted Working Space, Add	13.29	
22 07 19 00-0781	LF		20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	121.29	18.48
			For Single Layer Of Felt Finish, Add	7.42	
			For Work In Restricted Working Space, Add	15.19	
22 07 19 00-0782	LF		24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	142.38	22.33
			For Single Layer Of Felt Finish, Add	8.53	
			For Work In Restricted Working Space, Add	18.35	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 07 19 00-0783	3" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)			
22 07 19 00-0784	LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.28		5.59
	For Single Layer Of Felt Finish, Add	1.27		
	For Work In Restricted Working Space, Add	4.56		
22 07 19 00-0785	LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.69		5.59
	For Single Layer Of Felt Finish, Add	1.31		
	For Work In Restricted Working Space, Add	4.56		
22 07 19 00-0786	LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.76		5.64
	For Single Layer Of Felt Finish, Add	1.41		
	For Work In Restricted Working Space, Add	4.61		
22 07 19 00-0787	LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.62		5.68
	For Single Layer Of Felt Finish, Add	1.49		
	For Work In Restricted Working Space, Add	4.64		
22 07 19 00-0788	LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.57		5.74
	For Single Layer Of Felt Finish, Add	1.57		
	For Work In Restricted Working Space, Add	4.69		
22 07 19 00-0789	LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.77		5.97
	For Single Layer Of Felt Finish, Add	1.63		
	For Work In Restricted Working Space, Add	4.86		
22 07 19 00-0790	LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.61		6.17
	For Single Layer Of Felt Finish, Add	1.77		
	For Work In Restricted Working Space, Add	5.03		
22 07 19 00-0791	LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.28		6.39
	For Single Layer Of Felt Finish, Add	1.88		
	For Work In Restricted Working Space, Add	5.21		
22 07 19 00-0792	LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.19		6.74
	For Single Layer Of Felt Finish, Add	2.19		
	For Work In Restricted Working Space, Add	5.50		
22 07 19 00-0793	LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.95		7.66
	For Single Layer Of Felt Finish, Add	2.53		
	For Work In Restricted Working Space, Add	6.24		
22 07 19 00-0794	LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.73		8.53
	For Single Layer Of Felt Finish, Add	3.94		
	For Work In Restricted Working Space, Add	6.96		
22 07 19 00-0795	LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.71		9.84
	For Single Layer Of Felt Finish, Add	4.82		
	For Work In Restricted Working Space, Add	8.03		
22 07 19 00-0796	LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	82.19		12.23
	For Single Layer Of Felt Finish, Add	5.14		
	For Work In Restricted Working Space, Add	9.98		
22 07 19 00-0797	LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	93.15		13.37
	For Single Layer Of Felt Finish, Add	5.97		
	For Work In Restricted Working Space, Add	10.89		
22 07 19 00-0798	LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	109.03		17.07
	For Single Layer Of Felt Finish, Add	6.58		
	For Work In Restricted Working Space, Add	13.92		
22 07 19 00-0799	LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	117.45		17.94
	For Single Layer Of Felt Finish, Add	7.22		
	For Work In Restricted Working Space, Add	14.62		
22 07 19 00-0800	LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	133.25		20.50
	For Single Layer Of Felt Finish, Add	8.14		
	For Work In Restricted Working Space, Add	16.71		
22 07 19 00-0801	LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	156.42		24.75
	For Single Layer Of Felt Finish, Add	9.36		
	For Work In Restricted Working Space, Add	20.19		
22 07 19 00-0802	3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)			
22 07 19 00-0803	LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.37		6.08
	For Single Layer Of Felt Finish, Add	1.34		
	For Work In Restricted Working Space, Add	5.00		
22 07 19 00-0804	LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.85		6.08
	For Single Layer Of Felt Finish, Add	1.39		
	For Work In Restricted Working Space, Add	5.00		
22 07 19 00-0805	LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.44		6.08
	For Single Layer Of Felt Finish, Add	1.54		
	For Work In Restricted Working Space, Add	5.03		
22 07 19 00-0806	LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.34		6.20
	For Single Layer Of Felt Finish, Add	1.62		
	For Work In Restricted Working Space, Add	5.06		
22 07 19 00-0807	LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.41		6.20
	For Single Layer Of Felt Finish, Add	1.71		
	For Work In Restricted Working Space, Add	5.12		
22 07 19 00-0808	LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.66		6.45
	For Single Layer Of Felt Finish, Add	1.79		
	For Work In Restricted Working Space, Add	5.30		
22 07 19 00-0809	LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.69		6.71
	For Single Layer Of Felt Finish, Add	1.93		
	For Work In Restricted Working Space, Add	5.48		
22 07 19 00-0810	LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.39		6.97
	For Single Layer Of Felt Finish, Add	2.04		
	For Work In Restricted Working Space, Add	5.68		

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0811 LF 4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.82	7.34
For Single Layer Of Felt Finish, Add	2.40	
For Work In Restricted Working Space, Add	6.00	
22 07 19 00-0812 LF 6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.07	8.36
For Single Layer Of Felt Finish, Add	2.77	
For Work In Restricted Working Space, Add	6.81	
22 07 19 00-0813 LF 8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	66.33	9.24
For Single Layer Of Felt Finish, Add	4.31	
For Work In Restricted Working Space, Add	7.59	
22 07 19 00-0814 LF 10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.43	10.63
For Single Layer Of Felt Finish, Add	5.28	
For Work In Restricted Working Space, Add	8.76	
22 07 19 00-0815 LF 12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.77	13.28
For Single Layer Of Felt Finish, Add	5.62	
For Work In Restricted Working Space, Add	10.88	
22 07 19 00-0816 LF 14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	101.77	14.56
For Single Layer Of Felt Finish, Add	6.53	
For Work In Restricted Working Space, Add	11.88	
22 07 19 00-0817 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	119.13	18.48
For Single Layer Of Felt Finish, Add	7.19	
For Work In Restricted Working Space, Add	15.19	
22 07 19 00-0818 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	128.30	19.49
For Single Layer Of Felt Finish, Add	7.89	
For Work In Restricted Working Space, Add	15.95	
22 07 19 00-0819 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	145.59	22.28
For Single Layer Of Felt Finish, Add	8.90	
For Work In Restricted Working Space, Add	18.24	
22 07 19 00-0820 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	170.88	26.83
For Single Layer Of Felt Finish, Add	10.23	
For Work In Restricted Working Space, Add	22.02	
22 07 19 00-0821 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0703)		
22 07 19 00-0822 LF 1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.34	6.83
For Single Layer Of Felt Finish, Add	1.56	
For Work In Restricted Working Space, Add	5.54	
22 07 19 00-0823 LF 3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.87	6.83
For Single Layer Of Felt Finish, Add	1.62	
For Work In Restricted Working Space, Add	5.54	
22 07 19 00-0824 LF 1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.29	6.83
For Single Layer Of Felt Finish, Add	1.73	
For Work In Restricted Working Space, Add	5.64	
22 07 19 00-0825 LF 1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.46	6.97
For Single Layer Of Felt Finish, Add	1.83	
For Work In Restricted Working Space, Add	5.71	
22 07 19 00-0826 LF 1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.99	7.22
For Single Layer Of Felt Finish, Add	1.93	
For Work In Restricted Working Space, Add	5.89	
22 07 19 00-0827 LF 2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.39	7.47
For Single Layer Of Felt Finish, Add	2.01	
For Work In Restricted Working Space, Add	6.07	
22 07 19 00-0828 LF 2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.26	7.47
For Single Layer Of Felt Finish, Add	2.17	
For Work In Restricted Working Space, Add	6.17	
22 07 19 00-0829 LF 3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.37	7.84
For Single Layer Of Felt Finish, Add	2.32	
For Work In Restricted Working Space, Add	6.39	
22 07 19 00-0830 LF 4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.14	8.23
For Single Layer Of Felt Finish, Add	2.69	
For Work In Restricted Working Space, Add	6.75	
22 07 19 00-0831 LF 6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	55.20	9.37
For Single Layer Of Felt Finish, Add	3.12	
For Work In Restricted Working Space, Add	7.66	
22 07 19 00-0832 LF 8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	74.63	10.13
For Single Layer Of Felt Finish, Add	4.85	
For Work In Restricted Working Space, Add	8.54	
22 07 19 00-0833 LF 10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	89.37	12.02
For Single Layer Of Felt Finish, Add	5.93	
For Work In Restricted Working Space, Add	9.86	
22 07 19 00-0834 LF 12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	101.01	14.93
For Single Layer Of Felt Finish, Add	6.32	
For Work In Restricted Working Space, Add	12.24	
22 07 19 00-0835 LF 14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	114.53	16.32
For Single Layer Of Felt Finish, Add	7.34	
For Work In Restricted Working Space, Add	13.38	
22 07 19 00-0836 LF 16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	134.07	20.89
For Single Layer Of Felt Finish, Add	8.09	
For Work In Restricted Working Space, Add	17.10	
22 07 19 00-0837 LF 18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	144.27	21.90
For Single Layer Of Felt Finish, Add	8.88	
For Work In Restricted Working Space, Add	17.92	
22 07 19 00-0838 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	161.57	25.07
For Single Layer Of Felt Finish, Add	9.79	
For Work In Restricted Working Space, Add	20.51	



Plumbing			22	22
Plumbing Insulation			22 07	
Plumbing Piping Insulation			22 07 19	

MINOR		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM DESCRIPTION		
22 07 19 00-0839	LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.26 11.51 24.78	30.25
22 07 19 00-0840	LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	219.03 12.78 29.21	35.70
22 07 19 00-0841	LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.10 13.80 34.40	42.02
22 07 19 00-0842	LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	276.46 14.77 40.74	49.62
22 07 19 00-0843	LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	332.48 16.78 51.80	63.08
22 07 19 00-0844	LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	388.49 18.79 62.87	76.83
22 07 19 00-0845	LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	416.81 19.51 69.29	84.42
22 07 19 00-0846	LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	442.47 20.30 74.75	90.87
22 07 19 00-0847	Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell (22 07 19) Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0848	1" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0849	LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.24 5.61	6.18
22 07 19 00-0850	LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.13 5.61	6.18
22 07 19 00-0851	LF 1" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	24.30 5.69	6.27
22 07 19 00-0852	LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	24.88 5.78	6.35
22 07 19 00-0853	LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	25.75 5.86	6.44
22 07 19 00-0854	LF 2" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	27.44 6.02	6.62
22 07 19 00-0855	LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.55 6.27	6.89
22 07 19 00-0856	LF 3" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.84 6.43	7.08
22 07 19 00-0857	LF 4" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.77 6.92	7.61
22 07 19 00-0858	LF 6" Diameter Pipe, 1" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	46.74 7.81	8.58
22 07 19 00-0859	1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)		
22 07 19 00-0860	LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	26.30 6.02	6.84
22 07 19 00-0861	LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	26.87 6.02	6.84
22 07 19 00-0862	LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	27.70 6.10	6.94
22 07 19 00-0863	LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	28.37 6.18	7.03
22 07 19 00-0864	LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.01 6.27	7.13
22 07 19 00-0865	LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.43 6.47	7.35
22 07 19 00-0866	LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.57 6.72	7.63
22 07 19 00-0867	LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.25 6.92	7.86
22 07 19 00-0868	LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	44.43 7.37	8.37
22 07 19 00-0869	LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	52.30 8.34	9.48
22 07 19 00-0870	LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	58.50 9.30	10.57
22 07 19 00-0871	LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	70.95 10.73	12.18
22 07 19 00-0872	LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	84.20 13.33	15.15
22 07 19 00-0873	LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	93.54 14.48	15.94

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0874	LF		16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	102.99	17.80
			<i>For Work In Restricted Working Space, Add</i>	16.18	
22 07 19 00-0875	LF		18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	116.75	21.05
			<i>For Work In Restricted Working Space, Add</i>	19.14	
22 07 19 00-0876	LF		20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	130.42	23.30
			<i>For Work In Restricted Working Space, Add</i>	21.19	
22 07 19 00-0877	LF		24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation	162.74	25.82
			<i>For Work In Restricted Working Space, Add</i>	23.47	
22 07 19 00-0878 2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0879	LF		1/2" Diameter Pipe, 2" Thick Foamglas Insulation	29.56	7.08
			<i>For Work In Restricted Working Space, Add</i>	6.43	
22 07 19 00-0880	LF		3/4" Diameter Pipe, 2" Thick Foamglas Insulation	30.44	7.08
			<i>For Work In Restricted Working Space, Add</i>	6.43	
22 07 19 00-0881	LF		1" Diameter Pipe, 2" Thick Foamglas Insulation	31.56	7.15
			<i>For Work In Restricted Working Space, Add</i>	6.51	
22 07 19 00-0882	LF		1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	33.21	7.25
			<i>For Work In Restricted Working Space, Add</i>	6.59	
22 07 19 00-0883	LF		1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	34.89	7.34
			<i>For Work In Restricted Working Space, Add</i>	6.67	
22 07 19 00-0884	LF		2" Diameter Pipe, 2" Thick Foamglas Insulation	38.99	7.61
			<i>For Work In Restricted Working Space, Add</i>	6.92	
22 07 19 00-0885	LF		2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	40.89	7.88
			<i>For Work In Restricted Working Space, Add</i>	7.16	
22 07 19 00-0886	LF		3" Diameter Pipe, 2" Thick Foamglas Insulation	43.87	8.14
			<i>For Work In Restricted Working Space, Add</i>	7.40	
22 07 19 00-0887	LF		4" Diameter Pipe, 2" Thick Foamglas Insulation	49.38	8.59
			<i>For Work In Restricted Working Space, Add</i>	7.81	
22 07 19 00-0888	LF		6" Diameter Pipe, 2" Thick Foamglas Insulation	59.06	9.76
			<i>For Work In Restricted Working Space, Add</i>	8.87	
22 07 19 00-0889	LF		8" Diameter Pipe, 2" Thick Foamglas Insulation	65.74	10.88
			<i>For Work In Restricted Working Space, Add</i>	9.89	
22 07 19 00-0890	LF		10" Diameter Pipe, 2" Thick Foamglas Insulation	80.00	12.55
			<i>For Work In Restricted Working Space, Add</i>	11.41	
22 07 19 00-0891	LF		12" Diameter Pipe, 2" Thick Foamglas Insulation	99.09	15.60
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 07 19 00-0892	LF		14" Diameter Pipe, 2" Thick Foamglas Insulation	105.87	17.02
			<i>For Work In Restricted Working Space, Add</i>	15.47	
22 07 19 00-0893	LF		16" Diameter Pipe, 2" Thick Foamglas Insulation	125.18	21.75
			<i>For Work In Restricted Working Space, Add</i>	19.78	
22 07 19 00-0894	LF		18" Diameter Pipe, 2" Thick Foamglas Insulation	136.48	22.84
			<i>For Work In Restricted Working Space, Add</i>	20.76	
22 07 19 00-0895	LF		20" Diameter Pipe, 2" Thick Foamglas Insulation	150.98	26.12
			<i>For Work In Restricted Working Space, Add</i>	23.74	
22 07 19 00-0896	LF		24" Diameter Pipe, 2" Thick Foamglas Insulation	189.37	31.54
			<i>For Work In Restricted Working Space, Add</i>	28.68	
22 07 19 00-0897 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)					
22 07 19 00-0898	LF		1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	35.89	7.67
			<i>For Work In Restricted Working Space, Add</i>	6.97	
22 07 19 00-0899	LF		3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	37.37	7.66
			<i>For Work In Restricted Working Space, Add</i>	6.96	
22 07 19 00-0900	LF		1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	39.26	7.78
			<i>For Work In Restricted Working Space, Add</i>	7.08	
22 07 19 00-0901	LF		1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	40.94	7.84
			<i>For Work In Restricted Working Space, Add</i>	7.13	
22 07 19 00-0902	LF		1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	42.62	7.91
			<i>For Work In Restricted Working Space, Add</i>	7.19	
22 07 19 00-0903	LF		2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	45.69	8.23
			<i>For Work In Restricted Working Space, Add</i>	7.48	
22 07 19 00-0904	LF		2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	48.62	8.52
			<i>For Work In Restricted Working Space, Add</i>	7.74	
22 07 19 00-0905	LF		3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	52.81	8.81
			<i>For Work In Restricted Working Space, Add</i>	8.01	
22 07 19 00-0906	LF		4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	59.18	9.29
			<i>For Work In Restricted Working Space, Add</i>	8.45	
22 07 19 00-0907	LF		6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	70.77	10.57
			<i>For Work In Restricted Working Space, Add</i>	9.61	
22 07 19 00-0908	LF		8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	78.87	11.78
			<i>For Work In Restricted Working Space, Add</i>	10.71	
22 07 19 00-0909	LF		10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	89.97	13.58
			<i>For Work In Restricted Working Space, Add</i>	12.35	
22 07 19 00-0910	LF		12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	112.04	16.89
			<i>For Work In Restricted Working Space, Add</i>	15.35	
22 07 19 00-0911	LF		14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	116.81	18.43
			<i>For Work In Restricted Working Space, Add</i>	16.76	
22 07 19 00-0912	LF		16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	137.70	23.55
			<i>For Work In Restricted Working Space, Add</i>	21.41	
22 07 19 00-0913	LF		18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	149.75	24.73
			<i>For Work In Restricted Working Space, Add</i>	22.49	
22 07 19 00-0914	LF		20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	172.18	28.27
			<i>For Work In Restricted Working Space, Add</i>	25.70	



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 07 19 00-0915	LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... For Work In Restricted Working Space, Add	215.66 31.05		34.16
22 07 19 00-0916 3" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0917	LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	43.39 7.42		8.15
22 07 19 00-0918	LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	44.29 7.42		8.15
22 07 19 00-0919	LF 1" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	45.59 7.54		8.29
22 07 19 00-0920	LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	46.66 7.59		8.34
22 07 19 00-0921	LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	47.78 7.65		8.42
22 07 19 00-0922	LF 2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	51.35 7.96		8.76
22 07 19 00-0923	LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	54.78 8.24		9.07
22 07 19 00-0924	LF 3" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	62.28 8.53		9.38
22 07 19 00-0925	LF 4" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	71.10 8.99		9.88
22 07 19 00-0926	LF 6" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	77.84 10.22		11.24
22 07 19 00-0927	LF 8" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	87.93 11.40		12.53
22 07 19 00-0928	LF 10" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	104.91 13.14		14.46
22 07 19 00-0929	LF 12" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	121.81 16.33		17.96
22 07 19 00-0930	LF 14" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	130.40 17.82		19.60
22 07 19 00-0931	LF 16" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	155.62 22.78		25.07
22 07 19 00-0932	LF 18" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	166.61 23.92		26.32
22 07 19 00-0933	LF 20" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	195.29 27.34		30.07
22 07 19 00-0934	LF 24" Diameter Pipe, 3" Thick Foamglas Insulation For Work In Restricted Working Space, Add	238.76 33.03		36.34
22 07 19 00-0935 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				
22 07 19 00-0936	LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	52.25 8.99		9.88
22 07 19 00-0937	LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	53.38 8.99		9.88
22 07 19 00-0938	LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	54.70 9.05		9.94
22 07 19 00-0939	LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	56.02 9.11		10.01
22 07 19 00-0940	LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	57.54 9.22		10.14
22 07 19 00-0941	LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	63.35 9.53		10.49
22 07 19 00-0942	LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	69.21 9.87		10.86
22 07 19 00-0943	LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	73.12 10.22		11.24
22 07 19 00-0944	LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	78.32 10.80		11.88
22 07 19 00-0945	LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	90.17 12.26		13.50
22 07 19 00-0946	LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	102.56 13.66		15.02
22 07 19 00-0947	LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	122.71 15.76		17.34
22 07 19 00-0948	LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	144.91 19.59		21.55
22 07 19 00-0949	LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	151.09 21.39		23.53
22 07 19 00-0950	LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	180.99 27.34		30.07
22 07 19 00-0951	LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	199.04 28.71		31.58
22 07 19 00-0952	LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	226.60 32.84		36.11
22 07 19 00-0953	LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation For Work In Restricted Working Space, Add	278.31 39.64		43.60
22 07 19 00-0954 4" Thick Foamglas Pipe Insulation (22 07 19 00-0847)				

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0955 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	63.62 11.04	12.15
22 07 19 00-0956 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	65.07 11.04	12.15
22 07 19 00-0957 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.16 11.24	12.36
22 07 19 00-0958 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	69.05 11.37	12.51
22 07 19 00-0959 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	71.69 11.72	12.90
22 07 19 00-0960 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	77.51 12.09	13.28
22 07 19 00-0961 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	82.70 12.27	13.51
22 07 19 00-0962 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	86.84 12.72	14.00
22 07 19 00-0963 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	94.88 14.19	15.61
22 07 19 00-0964 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	109.89 15.24	16.76
22 07 19 00-0965 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	124.14 16.52	18.17
22 07 19 00-0966 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	142.09 19.63	21.59
22 07 19 00-0967 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	165.86 24.38	26.82
22 07 19 00-0968 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	180.33 26.63	29.28
22 07 19 00-0969 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	213.81 34.05	37.45
22 07 19 00-0970 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	238.11 35.68	39.25
22 07 19 00-0971 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	266.83 40.84	44.92
22 07 19 00-0972 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	338.68 49.34	54.27
22 07 19 00-0973 Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19)		
Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0974 3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)		
22 07 19 00-0975 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.07 2.27	3.79
22 07 19 00-0976 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.08 2.28	3.79
22 07 19 00-0977 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.41 2.35	3.93
22 07 19 00-0978 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.76 2.44	4.05
22 07 19 00-0979 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.07 2.47	4.13
22 07 19 00-0980 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.44 2.51	4.19
22 07 19 00-0981 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.59 2.53	4.19
22 07 19 00-0982 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.01 2.54	4.19
22 07 19 00-0983 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.83 2.61	4.32
22 07 19 00-0984 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.18 2.65	4.39
22 07 19 00-0985 1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)		
22 07 19 00-0986 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.96 2.47	4.13
22 07 19 00-0987 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.06 2.49	4.13
22 07 19 00-0988 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.21 2.51	4.19
22 07 19 00-0989 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.39 2.53	4.22
22 07 19 00-0990 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.85 2.59	4.32
22 07 19 00-0991 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.25 2.63	4.39
22 07 19 00-0992 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.69 2.67	4.45
22 07 19 00-0993 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.22 2.71	4.52
22 07 19 00-0994 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.18 2.79	4.65



Plumbing		22	22
Plumbing Insulation		22 07	
Plumbing Piping Insulation		22 07 19	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 07 19 00-0995	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.15 2.83	4.72	
22 07 19 00-0996	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.07 2.87	4.78	
22 07 19 00-0997	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.63 2.91	4.85	
22 07 19 00-0998	3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)			
22 07 19 00-0999	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.97 2.67	4.45	
22 07 19 00-1000	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.09 2.71	4.52	
22 07 19 00-1001	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.75 2.79	4.65	
22 07 19 00-1002	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.03 2.83	4.72	
22 07 19 00-1003	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.83 2.91	4.85	
22 07 19 00-1004	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.63 2.95	4.93	
22 07 19 00-1005	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.99 2.97	4.95	
22 07 19 00-1006	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.47 2.99	4.99	
22 07 19 00-1007	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.52 3.07	5.12	
22 07 19 00-1008	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.65 3.11	5.19	
22 07 19 00-1009	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.11 3.15	5.25	
22 07 19 00-1010	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.72 3.19	5.32	
22 07 19 00-1011	1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0973)			
22 07 19 00-1012	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.34 2.95	4.93	
22 07 19 00-1013	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.63 2.99	4.99	
22 07 19 00-1014	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.55 3.07	5.12	
22 07 19 00-1015	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.83 3.11	5.19	
22 07 19 00-1016	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.19 3.19	5.32	
22 07 19 00-1017	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.87 3.27	5.45	
22 07 19 00-1018	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.14 3.31	5.52	
22 07 19 00-1019	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.46 3.35	5.58	
22 07 19 00-1020	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.41 3.43	5.72	
22 07 19 00-1021	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.23 3.47	5.78	
22 07 19 00-1022	Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19) Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.			
22 07 19 00-1023	3/8" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-1022)			
22 07 19 00-1024	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.20 2.27	3.79	
22 07 19 00-1025	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.30 2.28	3.79	
22 07 19 00-1026	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.62 2.35	3.93	
22 07 19 00-1027	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.81 2.39	3.99	
22 07 19 00-1028	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.02 2.44	4.05	
22 07 19 00-1029	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.26 2.47	4.13	
22 07 19 00-1030	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.49 2.51	4.19	
22 07 19 00-1031	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.69 2.53	4.19	
22 07 19 00-1032	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.87 2.54	4.19	
22 07 19 00-1033	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.06 2.55	4.25	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1034	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.34 2.59	4.32
22 07 19 00-1035	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.57 2.61	4.32
22 07 19 00-1036	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.74 2.63	4.39
22 07 19 00-1037	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.97 2.65	4.39
22 07 19 00-1038	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.47 2.67	4.45
22 07 19 00-1039	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.06 2.71	4.52
22 07 19 00-1040	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.70 2.73	4.54
22 07 19 00-1041 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-					
22 07 19 00-1042	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.18 2.47	4.13
22 07 19 00-1043	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.29 2.49	4.13
22 07 19 00-1044	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.43 2.51	4.19
22 07 19 00-1045	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.60 2.53	4.19
22 07 19 00-1046	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.72 2.53	4.19
22 07 19 00-1047	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.07 2.59	4.32
22 07 19 00-1048	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.40 2.63	4.39
22 07 19 00-1049	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.69 2.67	4.45
22 07 19 00-1050	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.96 2.69	4.49
22 07 19 00-1051	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.19 2.71	4.52
22 07 19 00-1052	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.04 2.75	4.59
22 07 19 00-1053	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.56 2.79	4.65
22 07 19 00-1054	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.93 2.81	4.69
22 07 19 00-1055	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.25 2.83	4.72
22 07 19 00-1056	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.50 2.85	4.75
22 07 19 00-1057	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.71 2.87	4.78
22 07 19 00-1058	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.66 2.91	4.85
22 07 19 00-1059	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.89 2.93	4.89
22 07 19 00-1060	LF		5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.80 2.95	4.93
22 07 19 00-1061	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.94 3.03	5.05
22 07 19 00-1062	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.20 3.11	5.19
22 07 19 00-1063 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-					
22 07 19 00-1064	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.42 2.67	4.45
22 07 19 00-1065	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.67 2.71	4.52
22 07 19 00-1066	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.10 2.79	4.65
22 07 19 00-1067	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.31 2.81	4.69
22 07 19 00-1068	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.42 2.83	4.72
22 07 19 00-1069	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.99 2.91	4.85
22 07 19 00-1070	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.42 2.95	4.93
22 07 19 00-1071	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.85 2.99	4.99
22 07 19 00-1072	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.96 2.99	4.99
22 07 19 00-1073	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.14 3.02	5.03



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 07 19 00-1074	LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.62 3.03		5.05
22 07 19 00-1075	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.91 3.07		5.12
22 07 19 00-1076	LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.47 3.09		5.15
22 07 19 00-1077	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.86 3.11		5.19
22 07 19 00-1078	LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.43 3.13		5.23
22 07 19 00-1079	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.68 3.15		5.25
22 07 19 00-1080	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.56 3.19		5.32
22 07 19 00-1081	LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.25 3.21		5.35
22 07 19 00-1082	LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.41 3.23		5.38
22 07 19 00-1083	LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.66 3.27		5.45
22 07 19 00-1084	LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.18 3.35		5.58
22 07 19 00-1085	1" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-1022)			
22 07 19 00-1086	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.04 2.95		4.91
22 07 19 00-1087	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.36 2.99		4.99
22 07 19 00-1088	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.80 3.07		5.12
22 07 19 00-1089	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.12 3.09		5.15
22 07 19 00-1090	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.40 3.11		5.19
22 07 19 00-1091	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.92 3.19		5.32
22 07 19 00-1092	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.72 3.27		5.45
22 07 19 00-1093	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.11 3.31		5.45
22 07 19 00-1094	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.62 3.33		5.52
22 07 19 00-1095	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.81 3.35		5.58
22 07 19 00-1096	LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.91 3.39		5.65
22 07 19 00-1097	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.76 3.43		5.72
22 07 19 00-1098	LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.82 3.45		5.75
22 07 19 00-1099	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.14 3.47		5.78
22 07 19 00-1100	LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.70 3.49		5.82
22 07 19 00-1101	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.98 3.51		5.84
22 07 19 00-1102	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.04 3.59		5.99
22 07 19 00-1103	LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.42 3.63		6.05
22 07 19 00-1104	LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.42 3.67		6.12
22 07 19 00-1105	LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.61 3.75		6.25
22 07 19 00-1106	1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-1022)			
22 07 19 00-1107	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.29 3.30		5.50
22 07 19 00-1108	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.73 3.38		5.62
22 07 19 00-1109	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.05 3.40		5.65
22 07 19 00-1110	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.37 3.41		5.70
22 07 19 00-1111	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.88 3.50		5.83
22 07 19 00-1112	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.69 3.62		6.05
22 07 19 00-1113	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.70 3.65		5.97

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1114	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	21.60	6.10	
		For Work In Restricted Working Space, Add	3.70		
22 07 19 00-1115	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	22.18	6.25	
		For Work In Restricted Working Space, Add	3.75		
22 07 19 00-1116	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.84	6.33	
		For Work In Restricted Working Space, Add	3.79		
22 07 19 00-1117	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	25.43	6.40	
		For Work In Restricted Working Space, Add	3.83		
22 07 19 00-1118	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.17	6.43	
		For Work In Restricted Working Space, Add	3.85		
22 07 19 00-1119	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.92	6.44	
		For Work In Restricted Working Space, Add	3.87		
22 07 19 00-1120	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	27.78	6.48	
		For Work In Restricted Working Space, Add	3.89		
22 07 19 00-1121	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	28.33	6.50	
		For Work In Restricted Working Space, Add	3.91		
22 07 19 00-1122	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	31.35	6.74	
		For Work In Restricted Working Space, Add	4.04		
22 07 19 00-1123	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.96	6.84	
		For Work In Restricted Working Space, Add	4.10		
22 07 19 00-1124	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	36.78	6.95	
		For Work In Restricted Working Space, Add	4.17		
22 07 19 00-1125	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	40.62	7.17	
		For Work In Restricted Working Space, Add	4.29		
22 07 19 00-1126 2" Wall Flexible Elastomeric Tubing Foam Insulation (AP Armaflex) (22 07 19 00-1022)					
22 07 19 00-1127	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	23.99	6.08	
		For Work In Restricted Working Space, Add	3.65		
22 07 19 00-1128	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	24.88	6.17	
		For Work In Restricted Working Space, Add	3.72		
22 07 19 00-1129	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.29	6.22	
		For Work In Restricted Working Space, Add	3.74		
22 07 19 00-1130	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	26.79	6.27	
		For Work In Restricted Working Space, Add	3.75		
22 07 19 00-1131	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	28.04	6.39	
		For Work In Restricted Working Space, Add	3.83		
22 07 19 00-1132	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	29.67	6.69	
		For Work In Restricted Working Space, Add	4.01		
22 07 19 00-1133	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	30.55	6.53	
		For Work In Restricted Working Space, Add	4.04		
22 07 19 00-1134	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	32.14	6.76	
		For Work In Restricted Working Space, Add	4.12		
22 07 19 00-1135	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	33.68	6.99	
		For Work In Restricted Working Space, Add	4.19		
22 07 19 00-1136	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	34.70	7.08	
		For Work In Restricted Working Space, Add	4.23		
22 07 19 00-1137	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	36.76	7.17	
		For Work In Restricted Working Space, Add	4.27		
22 07 19 00-1138	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	37.02	7.18	
		For Work In Restricted Working Space, Add	4.30		
22 07 19 00-1139	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	38.94	7.19	
		For Work In Restricted Working Space, Add	4.32		
22 07 19 00-1140	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	40.26	7.22	
		For Work In Restricted Working Space, Add	4.34		
22 07 19 00-1141	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	41.67	7.25	
		For Work In Restricted Working Space, Add	4.35		
22 07 19 00-1142	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	46.49	7.59	
		For Work In Restricted Working Space, Add	4.54		
22 07 19 00-1143	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	49.28	7.74	
		For Work In Restricted Working Space, Add	4.64		
22 07 19 00-1144	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	50.17	7.89	
		For Work In Restricted Working Space, Add	4.74		
22 07 19 00-1145	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation	55.94	8.22	
		For Work In Restricted Working Space, Add	4.92		
22 07 19 00-1146 Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19)					
Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.					
22 07 19 00-1147 3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)					
22 07 19 00-1148	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.14	3.79	
		For Work In Restricted Working Space, Add	2.27		
22 07 19 00-1149	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.23	3.79	
		For Work In Restricted Working Space, Add	2.28		
22 07 19 00-1150	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.53	3.93	
		For Work In Restricted Working Space, Add	2.35		
22 07 19 00-1151	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	8.91	4.05	
		For Work In Restricted Working Space, Add	2.44		
22 07 19 00-1152	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.13	4.13	
		For Work In Restricted Working Space, Add	2.47		
22 07 19 00-1153	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.53	4.19	
		For Work In Restricted Working Space, Add	2.51		



Plumbing		22
Plumbing Insulation		22 07
Plumbing Piping Insulation		22 07 19

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 07 19 00-1154	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	9.82		4.19
	For Work In Restricted Working Space, Add	2.53		
22 07 19 00-1155	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.04		4.32
	For Work In Restricted Working Space, Add	2.54		
22 07 19 00-1156	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	11.00		4.32
	For Work In Restricted Working Space, Add	2.61		
22 07 19 00-1157	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.84		4.39
	For Work In Restricted Working Space, Add	2.65		
22 07 19 00-1158	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.00		4.52
	For Work In Restricted Working Space, Add	2.71		
22 07 19 00-1159 1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)				
22 07 19 00-1160	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.11		4.13
	For Work In Restricted Working Space, Add	2.47		
22 07 19 00-1161	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.19		4.13
	For Work In Restricted Working Space, Add	2.49		
22 07 19 00-1162	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.37		4.19
	For Work In Restricted Working Space, Add	2.51		
22 07 19 00-1163	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.61		4.19
	For Work In Restricted Working Space, Add	2.53		
22 07 19 00-1164	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.91		4.32
	For Work In Restricted Working Space, Add	2.59		
22 07 19 00-1165	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.35		4.39
	For Work In Restricted Working Space, Add	2.63		
22 07 19 00-1166	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	10.82		4.45
	For Work In Restricted Working Space, Add	2.67		
22 07 19 00-1167	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.27		4.52
	For Work In Restricted Working Space, Add	2.71		
22 07 19 00-1168	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	12.32		4.65
	For Work In Restricted Working Space, Add	2.79		
22 07 19 00-1169	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.21		4.72
	For Work In Restricted Working Space, Add	2.83		
22 07 19 00-1170	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.94		4.85
	For Work In Restricted Working Space, Add	2.91		
22 07 19 00-1171 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)				
22 07 19 00-1172	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.21		4.45
	For Work In Restricted Working Space, Add	2.67		
22 07 19 00-1173	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.53		4.52
	For Work In Restricted Working Space, Add	2.71		
22 07 19 00-1174	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.97		4.65
	For Work In Restricted Working Space, Add	2.79		
22 07 19 00-1175	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.58		4.72
	For Work In Restricted Working Space, Add	2.83		
22 07 19 00-1176	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.18		4.85
	For Work In Restricted Working Space, Add	2.91		
22 07 19 00-1177	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.17		4.93
	For Work In Restricted Working Space, Add	2.95		
22 07 19 00-1178	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	13.82		4.93
	For Work In Restricted Working Space, Add	2.97		
22 07 19 00-1179	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.56		4.99
	For Work In Restricted Working Space, Add	2.99		
22 07 19 00-1180	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	16.00		5.12
	For Work In Restricted Working Space, Add	3.07		
22 07 19 00-1181	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	17.30		5.19
	For Work In Restricted Working Space, Add	3.11		
22 07 19 00-1182	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	19.78		5.32
	For Work In Restricted Working Space, Add	3.19		
22 07 19 00-1183 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-1146)				
22 07 19 00-1184	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.10		4.93
	For Work In Restricted Working Space, Add	2.95		
22 07 19 00-1185	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.29		4.99
	For Work In Restricted Working Space, Add	2.99		
22 07 19 00-1186	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.71		5.12
	For Work In Restricted Working Space, Add	3.07		
22 07 19 00-1187	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.61		5.19
	For Work In Restricted Working Space, Add	3.11		
22 07 19 00-1188	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.35		5.32
	For Work In Restricted Working Space, Add	3.19		
22 07 19 00-1189	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.13		5.45
	For Work In Restricted Working Space, Add	3.27		
22 07 19 00-1190	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	15.86		5.45
	For Work In Restricted Working Space, Add	3.31		
22 07 19 00-1191	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	17.51		5.58
	For Work In Restricted Working Space, Add	3.35		
22 07 19 00-1192	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation	19.72		5.72
	For Work In Restricted Working Space, Add	3.43		
22 07 19 00-1193	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	21.28		5.78
	For Work In Restricted Working Space, Add	3.47		

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 10 Plumbing Piping ⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution ^(22 10)**22 11 16 Domestic Water Piping** ^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies ^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Includes cutting and threading to length where necessary. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly.....	21.11	4.80
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-0.78	
		For Work In Restricted Working Space, Add	4.77	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	5.52	
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly.....	23.20	5.15
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-0.96	
		For Work In Restricted Working Space, Add	5.04	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	6.24	
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	26.42	5.64
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-1.26	
		For Work In Restricted Working Space, Add	5.40	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	7.39	
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	31.06	5.87
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-1.79	
		For Work In Restricted Working Space, Add	5.73	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	9.20	
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	33.46	6.95
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-2.03	
		For Work In Restricted Working Space, Add	5.97	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	10.08	
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	40.35	8.39
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-2.65	
		For Work In Restricted Working Space, Add	6.80	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	12.49	
22 11 16 00-0008	LF	2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	57.18	9.95
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-4.59	
		For Work In Restricted Working Space, Add	7.97	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	19.09	
22 11 16 00-0009	LF	3" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	71.07	13.30
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-5.84	
		For Work In Restricted Working Space, Add	9.65	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	23.94	
22 11 16 00-0010	LF	4" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	102.15	14.93
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-10.09	
		For Work In Restricted Working Space, Add	10.46	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	37.25	
22 11 16 00-0011	LF	5" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	179.84	19.08
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-20.66	
		For Work In Restricted Working Space, Add	12.64	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	70.40	
22 11 16 00-0012	LF	6" Schedule 40 Threaded Galvanized Steel Pipe With 150 Lb. Malleable Iron Fitting Assembly	200.85	22.56
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For ASTM 120, Deduct	-22.95	
		For Work In Restricted Working Space, Add	14.36	
		For Schedule 80 Pipe With 300 Lb. Malleable Iron Fittings, Add	78.42	



Plumbing			22
Plumbing Piping			22 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings (22 11 16) Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013) Note: ASTM A-53. Welded pipe has a weld bead on the inside. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	10.31 -0.46 2.18 2.19	4.80
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	11.77 -0.60 2.32 2.71	5.15
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	14.36 -0.90 2.51 3.71	5.64
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	16.98 -1.22 2.66 4.78	5.87
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	20.11 -1.45 3.13 5.69	6.95
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	25.62 -1.95 3.78 7.51	8.39
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	35.61 -3.09 4.49 11.40	9.95
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	46.99 -4.05 5.99 14.96	13.30
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	60.90 -5.77 6.74 20.70	14.93
22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	80.15 -7.74 8.57 27.62	19.08
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	100.69 -10.04 10.14 35.49	22.56
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	113.09 -10.84 12.24 38.78	27.28
22 11 16 00-0027			Seamless, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013) Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0028	LF		1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	14.17 -1.04 2.18 4.04	4.80
22 11 16 00-0029	LF		3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	16.02 -1.24 2.32 4.75	5.15
22 11 16 00-0030	LF		1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	18.01 -1.44 2.51 5.46	5.64
22 11 16 00-0031	LF		1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	20.97 -1.81 2.66 6.69	5.87
22 11 16 00-0032	LF		1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	24.23 -2.07 3.13 7.67	6.95
22 11 16 00-0033	LF		2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	28.34 -2.36 3.78 8.81	8.39
22 11 16 00-0034	LF		2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe For ASTM 120, Deduct For Work In Restricted Working Space, Add For Schedule 80 Pipe, Add	41.31 -3.95 4.49 14.14	9.95

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 11 16 00-0035	LF	3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	52.17		13.30
		For ASTM 120, Deduct	-4.83		
		For Work In Restricted Working Space, Add	5.99		
		For Schedule 80 Pipe, Add	17.45		
22 11 16 00-0036	LF	4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	68.47		14.93
		For ASTM 120, Deduct	-6.90		
		For Work In Restricted Working Space, Add	6.74		
		For Schedule 80 Pipe, Add	24.33		
22 11 16 00-0037	LF	5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	88.64		19.08
		For ASTM 120, Deduct	-9.01		
		For Work In Restricted Working Space, Add	8.57		
		For Schedule 80 Pipe, Add	31.69		
22 11 16 00-0038	LF	6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe	110.63		22.56
		For ASTM 120, Deduct	-11.53		
		For Work In Restricted Working Space, Add	10.14		
		For Schedule 80 Pipe, Add	40.26		
22 11 16 00-0039 Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)					
22 11 16 00-0040	EA	1/2", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	35.72		21.33
		For ASTM 120, Deduct	-0.57		
		For Work In Restricted Working Space, Add	9.59		
		For 300 Lb. Rating, Add	14.74		
22 11 16 00-0041	EA	3/4", 150 LBLb., Galvanized Malleable Iron 90 Degree Elbow	40.41		23.84
		For ASTM 120, Deduct	-0.70		
		For Work In Restricted Working Space, Add	10.73		
		For 300 Lb. Rating, Add	17.92		
22 11 16 00-0042	EA	1", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	48.53		26.60
		For ASTM 120, Deduct	-1.29		
		For Work In Restricted Working Space, Add	11.98		
		For 300 Lb. Rating, Add	31.60		
22 11 16 00-0043	EA	1-1/4", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	58.80		30.20
		For ASTM 120, Deduct	-2.04		
		For Work In Restricted Working Space, Add	13.57		
		For 300 Lb. Rating, Add	48.89		
22 11 16 00-0044	EA	1-1/2", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	68.71		34.03
		For ASTM 120, Deduct	-2.66		
		For Work In Restricted Working Space, Add	15.30		
		For 300 Lb. Rating, Add	63.31		
22 11 16 00-0045	EA	2", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	93.79		43.26
		For ASTM 120, Deduct	-4.35		
		For Work In Restricted Working Space, Add	19.43		
		For 300 Lb. Rating, Add	102.55		
22 11 16 00-0046	EA	2-1/2", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	171.81		63.99
		For ASTM 120, Deduct	-11.39		
		For Work In Restricted Working Space, Add	28.76		
		For 300 Lb. Rating, Add	263.95		
22 11 16 00-0047	EA	3", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	251.34		84.12
		For ASTM 120, Deduct	-18.78		
		For Work In Restricted Working Space, Add	37.84		
		For 300 Lb. Rating, Add	433.25		
22 11 16 00-0048	EA	4", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	351.77		87.32
		For ASTM 120, Deduct	-33.12		
		For Work In Restricted Working Space, Add	39.28		
		For 300 Lb. Rating, Add	758.68		
22 11 16 00-0049	EA	5", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,090.28		91.13
		For ASTM 120, Deduct	-143.05		
		For Work In Restricted Working Space, Add	40.99		
		For 300 Lb. Rating, Add	3,250.61		
22 11 16 00-0050	EA	6", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,022.00		95.29
		For ASTM 120, Deduct	-131.87		
		For Work In Restricted Working Space, Add	42.85		
		For 300 Lb. Rating, Add	2,997.71		
22 11 16 00-0051	EA	8", 150 Lb., Galvanized Malleable Iron 90 Degree Elbow	1,209.93		99.57
		For ASTM 120, Deduct	-159.10		
		For Work In Restricted Working Space, Add	44.78		
		For 300 Lb. Rating, Add	3,615.17		
22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)					
22 11 16 00-0053	EA	3/4" x 1/2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	41.93		22.53
		For ASTM 120, Deduct	-1.21		
		For Work In Restricted Working Space, Add	10.16		
22 11 16 00-0054	EA	1" x 3/4", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	48.20		25.29
		For ASTM 120, Deduct	-1.55		
		For Work In Restricted Working Space, Add	11.36		
22 11 16 00-0055	EA	1" x 1/2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	46.93		23.96
		For ASTM 120, Deduct	-1.65		
		For Work In Restricted Working Space, Add	10.79		
22 11 16 00-0056	EA	1-1/4" x 1", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	59.94		28.40
		For ASTM 120, Deduct	-2.60		
		For Work In Restricted Working Space, Add	12.77		
22 11 16 00-0057	EA	1-1/4" x 3/4", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	61.35		26.96
		For ASTM 120, Deduct	-3.13		
		For Work In Restricted Working Space, Add	12.15		



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 11 16 00-0058	EA 1-1/4" x 1/2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow.....	60.68		25.76
	For ASTM 120, Deduct	-3.31		
	For Work In Restricted Working Space, Add	11.58		
22 11 16 00-0059	EA 1-1/2" x 1-1/4", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	75.84		32.11
	For ASTM 120, Deduct	-4.16		
	For Work In Restricted Working Space, Add	14.43		
22 11 16 00-0060	EA 1-1/2" x 1", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	73.20		30.32
	For ASTM 120, Deduct	-4.16		
	For Work In Restricted Working Space, Add	13.64		
22 11 16 00-0061	EA 1-1/2" x 3/4", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow.....	71.12		28.88
	For ASTM 120, Deduct	-4.16		
	For Work In Restricted Working Space, Add	13.01		
22 11 16 00-0062	EA 2" x 1-1/2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	90.29		38.59
	For ASTM 120, Deduct	-4.66		
	For Work In Restricted Working Space, Add	17.36		
22 11 16 00-0063	EA 2" x 1-1/4", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	92.14		36.67
	For ASTM 120, Deduct	-5.57		
	For Work In Restricted Working Space, Add	16.50		
22 11 16 00-0064	EA 2" x 1", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow.....	90.90		34.87
	For ASTM 120, Deduct	-5.78		
	For Work In Restricted Working Space, Add	15.71		
22 11 16 00-0065	EA 2" x 3/4", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow.....	79.51		33.55
	For ASTM 120, Deduct	-4.39		
	For Work In Restricted Working Space, Add	15.08		
22 11 16 00-0066	EA 2-1/2" x 2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	190.16		53.56
	For ASTM 120, Deduct	-16.48		
	For Work In Restricted Working Space, Add	24.10		
22 11 16 00-0067	EA 2-1/2" x 1-1/2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	195.82		49.01
	For ASTM 120, Deduct	-18.36		
	For Work In Restricted Working Space, Add	22.03		
22 11 16 00-0068	EA 3" x 2-1/2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow	310.64		74.05
	For ASTM 120, Deduct	-29.95		
	For Work In Restricted Working Space, Add	33.30		
22 11 16 00-0069	EA 3" x 2", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow.....	268.84		63.63
	For ASTM 120, Deduct	-26.01		
	For Work In Restricted Working Space, Add	28.64		
22 11 16 00-0070	EA 4" x 3", 150 Lb., Galvanized Malleable Iron Reducing 90 Degree Elbow.....	576.31		83.05
	For ASTM 120, Deduct	-67.76		
	For Work In Restricted Working Space, Add	37.37		
22 11 16 00-0071	Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)			
22 11 16 00-0072	EA 1/2", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	36.65		21.33
	For ASTM 120, Deduct	-0.71		
	For Work In Restricted Working Space, Add	9.59		
	For 300 Lb. Rating, Add	17.90		
22 11 16 00-0073	EA 3/4", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	42.52		23.84
	For ASTM 120, Deduct	-1.01		
	For Work In Restricted Working Space, Add	10.73		
	For 300 Lb. Rating, Add	25.10		
22 11 16 00-0074	EA 1", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	47.56		26.60
	For ASTM 120, Deduct	-1.14		
	For Work In Restricted Working Space, Add	11.98		
	For 300 Lb. Rating, Add	28.30		
22 11 16 00-0075	EA 1-1/4", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	59.47		30.20
	For ASTM 120, Deduct	-2.14		
	For Work In Restricted Working Space, Add	13.57		
	For 300 Lb. Rating, Add	51.16		
22 11 16 00-0076	EA 1-1/2", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	67.72		34.03
	For ASTM 120, Deduct	-2.51		
	For Work In Restricted Working Space, Add	15.30		
	For 300 Lb. Rating, Add	59.94		
22 11 16 00-0077	EA 2", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	89.53		43.26
	For ASTM 120, Deduct	-3.71		
	For Work In Restricted Working Space, Add	19.43		
	For 300 Lb. Rating, Add	88.07		
22 11 16 00-0078	EA 2-1/2", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	182.02		63.99
	For ASTM 120, Deduct	-12.92		
	For Work In Restricted Working Space, Add	28.76		
	For 300 Lb. Rating, Add	298.66		
22 11 16 00-0079	EA 3", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	251.44		84.12
	For ASTM 120, Deduct	-18.80		
	For Work In Restricted Working Space, Add	37.64		
	For 300 Lb. Rating, Add	433.59		
22 11 16 00-0080	EA 4", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	341.00		87.32
	For ASTM 120, Deduct	-31.51		
	For Work In Restricted Working Space, Add	39.28		
	For 300 Lb. Rating, Add	722.06		
22 11 16 00-0081	EA 5", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	985.45		91.13
	For ASTM 120, Deduct	-127.32		
	For Work In Restricted Working Space, Add	40.99		
	For 300 Lb. Rating, Add	2,894.19		
22 11 16 00-0082	EA 6", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	1,166.32		95.29
	For ASTM 120, Deduct	-153.52		
	For Work In Restricted Working Space, Add	42.85		
	For 300 Lb. Rating, Add	3,488.40		

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 11 16 00-0083	EA	8", 150 Lb., Galvanized Malleable Iron 45 Degree Elbow.....	1,382.27		99.57
		For ASTM 120, Deduct	-184.95		
		For Work In Restricted Working Space, Add	44.78		
		For 300 Lb. Rating, Add	4,201.12		
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)					
22 11 16 00-0085	EA	1/2", 150 Lb., Galvanized Malleable Iron Tee.....	44.83		26.60
		For ASTM 120, Deduct	-0.73		
		For Work In Restricted Working Space, Add	11.98		
		For 300 Lb. Rating, Add	19.02		
22 11 16 00-0086	EA	3/4", 150 Lb., Galvanized Malleable Iron Tee.....	54.16		30.80
		For ASTM 120, Deduct	-1.21		
		For Work In Restricted Working Space, Add	13.83		
		For 300 Lb. Rating, Add	30.20		
22 11 16 00-0087	EA	1", 150 Lb., Galvanized Malleable Iron Tee.....	67.51		36.30
		For ASTM 120, Deduct	-1.96		
		For Work In Restricted Working Space, Add	16.34		
		For 300 Lb. Rating, Add	47.60		
22 11 16 00-0088	EA	1-1/4", 150 Lb., Galvanized Malleable Iron Tee.....	85.47		43.26
		For ASTM 120, Deduct	-3.11		
		For Work In Restricted Working Space, Add	19.43		
		For 300 Lb. Rating, Add	74.27		
22 11 16 00-0089	EA	1-1/2", 150 Lb., Galvanized Malleable Iron Tee.....	103.04		51.52
		For ASTM 120, Deduct	-3.86		
		For Work In Restricted Working Space, Add	23.20		
		For 300 Lb. Rating, Add	92.09		
22 11 16 00-0090	EA	2", 150 Lb., Galvanized Malleable Iron Tee.....	137.68		63.99
		For ASTM 120, Deduct	-6.27		
		For Work In Restricted Working Space, Add	28.76		
		For 300 Lb. Rating, Add	147.91		
22 11 16 00-0091	EA	2-1/2", 150 Lb., Galvanized Malleable Iron Tee.....	221.92		69.50
		For ASTM 120, Deduct	-17.66		
		For Work In Restricted Working Space, Add	31.26		
		For 300 Lb. Rating, Add	406.50		
22 11 16 00-0092	EA	3", 150 Lb., Galvanized Malleable Iron Tee.....	264.19		84.12
		For ASTM 120, Deduct	-20.71		
		For Work In Restricted Working Space, Add	37.84		
		For 300 Lb. Rating, Add	476.94		
22 11 16 00-0093	EA	4", 150 Lb., Galvanized Malleable Iron Tee.....	491.99		110.33
		For ASTM 120, Deduct	-48.99		
		For Work In Restricted Working Space, Add	49.62		
		For 300 Lb. Rating, Add	1,120.30		
22 11 16 00-0094	EA	5", 150 Lb., Galvanized Malleable Iron Tee.....	1,222.99		130.98
		For ASTM 120, Deduct	-153.99		
		For Work In Restricted Working Space, Add	58.93		
		For 300 Lb. Rating, Add	3,502.12		
22 11 16 00-0095	EA	6", 150 Lb., Galvanized Malleable Iron Tee.....	1,388.85		149.72
		For ASTM 120, Deduct	-174.66		
		For Work In Restricted Working Space, Add	67.34		
		For 300 Lb. Rating, Add	3,972.33		
22 11 16 00-0096	EA	8", 150 Lb., Galvanized Malleable Iron Tee.....	1,652.86		177.79
		For ASTM 120, Deduct	-207.52		
		For Work In Restricted Working Space, Add	80.81		
		For 300 Lb. Rating, Add	4,719.99		
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)					
22 11 16 00-0098	EA	1/2", 150 Lb., Galvanized Malleable Iron Reducing Tee.....	51.31		26.60
		For ASTM 120, Deduct	-1.71		
		For Work In Restricted Working Space, Add	11.98		
		For 300 Lb. Rating, Add	41.05		
22 11 16 00-0099	EA	3/4", 150 Lb., Galvanized Malleable Iron Reducing Tee.....	57.30		30.80
		For ASTM 120, Deduct	-1.68		
		For Work In Restricted Working Space, Add	13.83		
		For 300 Lb. Rating, Add	40.88		
22 11 16 00-0100	EA	1", 150 Lb., Galvanized Malleable Iron Reducing Tee.....	70.22		36.30
		For ASTM 120, Deduct	-2.36		
		For Work In Restricted Working Space, Add	16.34		
		For 300 Lb. Rating, Add	56.82		
22 11 16 00-0101	EA	1-1/4", 150 Lb., Galvanized Malleable Iron Reducing Tee.....	89.20		43.26
		For ASTM 120, Deduct	-3.66		
		For Work In Restricted Working Space, Add	19.43		
		For 300 Lb. Rating, Add	86.95		
22 11 16 00-0102	EA	1-1/2", 150 Lb., Galvanized Malleable Iron Reducing Tee.....	107.49		51.52
		For ASTM 120, Deduct	-4.53		
		For Work In Restricted Working Space, Add	23.20		
		For 300 Lb. Rating, Add	107.22		
22 11 16 00-0103	EA	2", 150 Lb., Galvanized Malleable Iron Reducing Tee.....	139.92		63.99
		For ASTM 120, Deduct	-6.61		
		For Work In Restricted Working Space, Add	28.76		
		For 300 Lb. Rating, Add	155.52		



	Plumbing	22	
	Plumbing Piping	22 10	22
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0104	EA	2-1/2"	150 Lb., Galvanized Malleable Iron Reducing Tee.....	260.12	69.74
			For ASTM 120, Deduct	-23.34	
			For Work In Restricted Working Space, Add	31.36	
			For 300 Lb. Rating, Add	535.28	
22 11 16 00-0105	EA	3"	150 Lb., Galvanized Malleable Iron Reducing Tee.....	329.92	85.43
			For ASTM 120, Deduct	-30.27	
			For Work In Restricted Working Space, Add	38.44	
			For 300 Lb. Rating, Add	693.77	
22 11 16 00-0106	EA	4"	150 Lb., Galvanized Malleable Iron Reducing Tee.....	750.37	110.33
			For ASTM 120, Deduct	-87.74	
			For Work In Restricted Working Space, Add	49.62	
			For 300 Lb. Rating, Add	1,998.79	
22 11 16 00-0107	EA	5"	150 Lb., Galvanized Malleable Iron Reducing Tee.....	1,553.05	130.98
			For ASTM 120, Deduct	-203.49	
			For Work In Restricted Working Space, Add	58.93	
			For 300 Lb. Rating, Add	4,624.33	
22 11 16 00-0108	EA	6"	150 Lb., Galvanized Malleable Iron Reducing Tee.....	1,763.41	149.72
			For ASTM 120, Deduct	-230.84	
			For Work In Restricted Working Space, Add	67.34	
			For 300 Lb. Rating, Add	5,245.83	
22 11 16 00-0109	EA	8"	150 Lb., Galvanized Malleable Iron Reducing Tee.....	2,113.70	171.93
			For ASTM 120, Deduct	-278.33	
			For Work In Restricted Working Space, Add	77.45	
			For 300 Lb. Rating, Add	6,324.36	
22 11 16 00-0110 Galvanized Malleable Iron Couplings (22 11 16 00-0013)					
22 11 16 00-0111	EA	1/2"	150 Lb., Galvanized Malleable Iron Coupling.....	41.19	21.33
			For ASTM 120, Deduct	-1.39	
			For Work In Restricted Working Space, Add	9.59	
			For 300 Lb. Rating, Add	33.33	
22 11 16 00-0112	EA	3/4"	150 Lb., Galvanized Malleable Iron Coupling.....	46.42	23.84
			For ASTM 120, Deduct	-1.60	
			For Work In Restricted Working Space, Add	10.73	
			For 300 Lb. Rating, Add	38.36	
22 11 16 00-0113	EA	1"	150 Lb., Galvanized Malleable Iron Coupling.....	57.39	26.60
			For ASTM 120, Deduct	-2.62	
			For Work In Restricted Working Space, Add	11.98	
			For 300 Lb. Rating, Add	61.73	
22 11 16 00-0114	EA	1-1/4"	150 Lb., Galvanized Malleable Iron Coupling.....	69.84	30.20
			For ASTM 120, Deduct	-3.69	
			For Work In Restricted Working Space, Add	13.57	
			For 300 Lb. Rating, Add	86.42	
22 11 16 00-0115	EA	1-1/2"	150 Lb., Galvanized Malleable Iron Coupling.....	78.97	34.03
			For ASTM 120, Deduct	-4.20	
			For Work In Restricted Working Space, Add	15.30	
			For 300 Lb. Rating, Add	98.19	
22 11 16 00-0116	EA	2"	150 Lb., Galvanized Malleable Iron Coupling.....	105.68	43.26
			For ASTM 120, Deduct	-6.14	
			For Work In Restricted Working Space, Add	19.43	
			For 300 Lb. Rating, Add	142.98	
22 11 16 00-0117	EA	2-1/2"	150 Lb., Galvanized Malleable Iron Coupling.....	221.10	63.99
			For ASTM 120, Deduct	-18.78	
			For Work In Restricted Working Space, Add	28.76	
			For 300 Lb. Rating, Add	431.53	
22 11 16 00-0118	EA	3"	150 Lb., Galvanized Malleable Iron Coupling.....	293.52	84.12
			For ASTM 120, Deduct	-25.11	
			For Work In Restricted Working Space, Add	37.84	
			For 300 Lb. Rating, Add	576.66	
22 11 16 00-0119	EA	4"	150 Lb., Galvanized Malleable Iron Coupling.....	486.42	87.32
			For ASTM 120, Deduct	-53.32	
			For Work In Restricted Working Space, Add	39.28	
			For 300 Lb. Rating, Add	1,216.49	
22 11 16 00-0120	EA	5"	150 Lb., Galvanized Malleable Iron Coupling.....	1,137.57	91.13
			For ASTM 120, Deduct	-150.14	
			For Work In Restricted Working Space, Add	40.99	
			For 300 Lb. Rating, Add	3,411.39	
22 11 16 00-0121	EA	6"	150 Lb., Galvanized Malleable Iron Coupling.....	1,283.18	95.29
			For ASTM 120, Deduct	-171.05	
			For Work In Restricted Working Space, Add	42.85	
			For 300 Lb. Rating, Add	3,885.73	
22 11 16 00-0122	EA	8"	150 Lb., Galvanized Malleable Iron Coupling.....	1,523.63	99.57
			For ASTM 120, Deduct	-206.15	
			For Work In Restricted Working Space, Add	44.78	
			For 300 Lb. Rating, Add	4,681.75	
22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)					
22 11 16 00-0124	EA	1/2"	150 Lb., Galvanized Malleable Iron Reducing Coupling.....	43.16	21.33
			For ASTM 120, Deduct	-1.68	
			For Work In Restricted Working Space, Add	9.59	
			For 300 Lb. Rating, Add	40.03	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0125 EA 3/4", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	47.76	23.84
For ASTM 120, Deduct	-1.80	
For Work In Restricted Working Space, Add	10.73	
For 300 Lb. Rating, Add	42.91	
22 11 16 00-0126 EA 1", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	59.92	26.60
For ASTM 120, Deduct	-3.00	
For Work In Restricted Working Space, Add	11.98	
For 300 Lb. Rating, Add	70.33	
22 11 16 00-0127 EA 1-1/4", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	71.05	30.20
For ASTM 120, Deduct	-3.87	
For Work In Restricted Working Space, Add	13.57	
For 300 Lb. Rating, Add	90.54	
22 11 16 00-0128 EA 1-1/2", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	84.31	34.03
For ASTM 120, Deduct	-5.00	
For Work In Restricted Working Space, Add	15.30	
For 300 Lb. Rating, Add	116.35	
22 11 16 00-0129 EA 2", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	110.22	43.26
For ASTM 120, Deduct	-6.82	
For Work In Restricted Working Space, Add	19.43	
For 300 Lb. Rating, Add	158.42	
22 11 16 00-0130 EA 2-1/2", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	222.69	63.99
For ASTM 120, Deduct	-19.02	
For Work In Restricted Working Space, Add	28.76	
For 300 Lb. Rating, Add	436.94	
22 11 16 00-0131 EA 3", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	288.77	84.12
For ASTM 120, Deduct	-24.39	
For Work In Restricted Working Space, Add	37.84	
For 300 Lb. Rating, Add	560.51	
22 11 16 00-0132 EA 4", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	495.57	87.32
For ASTM 120, Deduct	-54.69	
For Work In Restricted Working Space, Add	39.28	
For 300 Lb. Rating, Add	1,247.60	
22 11 16 00-0133 EA 5", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	1,190.26	91.13
For ASTM 120, Deduct	-158.04	
For Work In Restricted Working Space, Add	40.99	
For 300 Lb. Rating, Add	3,590.54	
22 11 16 00-0134 EA 6", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	1,343.20	95.29
For ASTM 120, Deduct	-180.05	
For Work In Restricted Working Space, Add	42.85	
For 300 Lb. Rating, Add	4,089.79	
22 11 16 00-0135 EA 8", 150 Lb., Galvanized Malleable Iron Reducing Coupling.....	1,596.50	99.57
For ASTM 120, Deduct	-217.08	
For Work In Restricted Working Space, Add	44.78	
For 300 Lb. Rating, Add	4,929.50	
22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)		
22 11 16 00-0137 EA 1/2", 150 Lb., Galvanized Malleable Iron Cap.....	17.07	9.95
For ASTM 120, Deduct	-0.31	
For Work In Restricted Working Space, Add	4.49	
For 300 Lb. Rating, Add	8.00	
22 11 16 00-0138 EA 3/4", 150 Lb., Galvanized Malleable Iron Cap.....	18.87	10.66
For ASTM 120, Deduct	-0.43	
For Work In Restricted Working Space, Add	4.79	
For 300 Lb. Rating, Add	10.78	
22 11 16 00-0139 EA 1", 150 Lb., Galvanized Malleable Iron Cap.....	22.03	12.34
For ASTM 120, Deduct	-0.54	
For Work In Restricted Working Space, Add	5.53	
For 300 Lb. Rating, Add	13.31	
22 11 16 00-0140 EA 1-1/4", 150 Lb., Galvanized Malleable Iron Cap.....	24.05	12.95
For ASTM 120, Deduct	-0.71	
For Work In Restricted Working Space, Add	5.80	
For 300 Lb. Rating, Add	17.21	
22 11 16 00-0141 EA 1-1/2", 150 Lb., Galvanized Malleable Iron Cap.....	23.75	12.95
For ASTM 120, Deduct	-0.66	
For Work In Restricted Working Space, Add	5.80	
For 300 Lb. Rating, Add	16.19	
22 11 16 00-0142 EA 2", 150 Lb., Galvanized Malleable Iron Cap.....	35.23	17.14
For ASTM 120, Deduct	-1.42	
For Work In Restricted Working Space, Add	7.73	
For 300 Lb. Rating, Add	33.71	
22 11 16 00-0143 EA 2-1/2", 150 Lb., Galvanized Malleable Iron Cap.....	53.18	21.33
For ASTM 120, Deduct	-3.18	
For Work In Restricted Working Space, Add	9.59	
For 300 Lb. Rating, Add	74.10	
22 11 16 00-0144 EA 3", 150 Lb., Galvanized Malleable Iron Cap.....	68.89	25.76
For ASTM 120, Deduct	-4.53	
For Work In Restricted Working Space, Add	11.60	
For 300 Lb. Rating, Add	105.10	
22 11 16 00-0145 EA 4", 150 Lb., Galvanized Malleable Iron Cap.....	101.40	29.97
For ASTM 120, Deduct	-8.48	
For Work In Restricted Working Space, Add	13.47	
For 300 Lb. Rating, Add	194.83	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0146	EA		5", 150 Lb., Galvanized Malleable Iron Cap.....	243.73	37.49
			For ASTM 120, Deduct	-28.14	
			For Work In Restricted Working Space, Add	16.84	
			For 300 Lb. Rating, Add	641.24	
22 11 16 00-0147	EA		6", 150 Lb., Galvanized Malleable Iron Cap.....	303.30	44.56
			For ASTM 120, Deduct	-35.47	
			For Work In Restricted Working Space, Add	20.06	
			For 300 Lb. Rating, Add	807.91	
22 11 16 00-0148	EA		8", 150 Lb., Galvanized Malleable Iron Cap.....	381.06	49.79
			For ASTM 120, Deduct	-45.96	
			For Work In Restricted Working Space, Add	22.39	
			For 300 Lb. Rating, Add	1,046.31	
22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)					
22 11 16 00-0150	EA		1/2", 150 Lb., Galvanized Malleable Iron Union.....	53.90	26.60
			For Work In Restricted Working Space, Add	11.98	
22 11 16 00-0151	EA		3/4", 150 Lb., Galvanized Malleable Iron Union.....	62.13	30.80
			For Work In Restricted Working Space, Add	13.83	
22 11 16 00-0152	EA		1", 150 Lb., Galvanized Malleable Iron Union.....	75.48	36.30
			For Work In Restricted Working Space, Add	16.34	
22 11 16 00-0153	EA		1-1/4", 150 Lb., Galvanized Malleable Iron Union.....	95.14	43.26
			For Work In Restricted Working Space, Add	19.43	
22 11 16 00-0154	EA		1-1/2", 150 Lb., Galvanized Malleable Iron Union.....	114.12	51.52
			For Work In Restricted Working Space, Add	23.20	
22 11 16 00-0155	EA		2", 150 Lb., Galvanized Malleable Iron Union.....	138.18	63.99
			For Work In Restricted Working Space, Add	28.76	
22 11 16 00-0156	EA		2-1/2", 150 Lb., Galvanized Malleable Iron Union.....	288.48	94.31
			For Work In Restricted Working Space, Add	42.45	
22 11 16 00-0157	EA		3", 150 Lb., Galvanized Malleable Iron Union.....	391.90	124.02
			For Work In Restricted Working Space, Add	55.86	
22 11 16 00-0158	EA		1/2", 250 Lb., Galvanized Malleable Iron Union.....	68.33	26.60
			For Work In Restricted Working Space, Add	11.98	
22 11 16 00-0159	EA		3/4", 250 Lb., Galvanized Malleable Iron Union.....	71.88	30.80
			For Work In Restricted Working Space, Add	13.83	
22 11 16 00-0160	EA		1", 250 Lb., Galvanized Malleable Iron Union.....	86.44	36.30
			For Work In Restricted Working Space, Add	16.34	
22 11 16 00-0161	EA		1-1/4", 250 Lb., Galvanized Malleable Iron Union.....	113.20	43.26
			For Work In Restricted Working Space, Add	19.43	
22 11 16 00-0162	EA		1-1/2", 250 Lb., Galvanized Malleable Iron Union.....	133.08	51.52
			For Work In Restricted Working Space, Add	23.20	
22 11 16 00-0163	EA		2", 250 Lb., Galvanized Malleable Iron Union.....	174.61	63.99
			For Work In Restricted Working Space, Add	28.76	
22 11 16 00-0164	EA		2-1/2", 250 Lb., Galvanized Malleable Iron Union.....	348.65	94.31
			For Work In Restricted Working Space, Add	42.46	
22 11 16 00-0165	EA		3", 250 Lb., Galvanized Malleable Iron Union.....	504.01	124.02
			For Work In Restricted Working Space, Add	55.86	
22 11 16 00-0166	EA		4", 250 Lb., Galvanized Malleable Iron Union.....	691.82	128.85
			For Work In Restricted Working Space, Add	57.99	
22 11 16 00-0167	EA		1/2", 300 Lb., Galvanized Malleable Iron Union.....	72.29	26.60
			For Work In Restricted Working Space, Add	11.98	
22 11 16 00-0168	EA		3/4", 300 Lb., Galvanized Malleable Iron Union.....	81.17	30.80
			For Work In Restricted Working Space, Add	13.83	
22 11 16 00-0169	EA		1", 300 Lb., Galvanized Malleable Iron Union.....	101.00	36.30
			For Work In Restricted Working Space, Add	16.34	
22 11 16 00-0170	EA		1-1/4", 300 Lb., Galvanized Malleable Iron Union.....	129.66	43.26
			For Work In Restricted Working Space, Add	19.43	
22 11 16 00-0171	EA		1-1/2", 300 Lb., Galvanized Malleable Iron Union.....	155.45	51.52
			For Work In Restricted Working Space, Add	23.20	
22 11 16 00-0172	EA		2", 300 Lb., Galvanized Malleable Iron Union.....	189.65	63.99
			For Work In Restricted Working Space, Add	28.76	
22 11 16 00-0173	EA		2-1/2", 300 Lb., Galvanized Malleable Iron Union.....	403.11	94.31
			For Work In Restricted Working Space, Add	42.46	
22 11 16 00-0174	EA		3", 300 Lb., Galvanized Malleable Iron Union.....	628.62	124.02
			For Work In Restricted Working Space, Add	55.86	
22 11 16 00-0175	EA		4", 300 Lb., Galvanized Malleable Iron Union.....	1,302.88	128.85
			For Work In Restricted Working Space, Add	57.99	
22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013)					
Note: ASTM A-53.					
22 11 16 00-0177	EA		3/8" x Close, Schedule 40 Galvanized Steel Nipple	20.25	11.38
			For ASTM 120, Deduct	-0.47	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	3.57	
22 11 16 00-0178	EA		1/2" x Close, Schedule 40 Galvanized Steel Nipple	19.65	11.38
			For ASTM 120, Deduct	-0.38	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	2.88	
22 11 16 00-0179	EA		3/4" x Close, Schedule 40 Galvanized Steel Nipple	20.19	11.38
			For ASTM 120, Deduct	-0.46	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	3.50	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple.....	22.65	12.34
			For ASTM 120, Deduct	-0.63	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	4.80	
22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple	25.63	13.30
			For ASTM 120, Deduct	-0.85	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	6.44	
22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple	26.61	13.30
			For ASTM 120, Deduct	-0.99	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	7.56	
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple.....	35.12	17.14
			For ASTM 120, Deduct	-1.40	
			For Work In Restricted Working Space, Add	7.73	
			For Schedule 80 Nipples, Add	10.66	
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple	59.78	21.33
			For ASTM 120, Deduct	-4.17	
			For Work In Restricted Working Space, Add	9.59	
			For Schedule 80 Nipples, Add	31.73	
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple.....	72.01	25.76
			For ASTM 120, Deduct	-5.00	
			For Work In Restricted Working Space, Add	11.60	
			For Schedule 80 Nipples, Add	38.02	
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple.....	94.87	29.97
			For ASTM 120, Deduct	-7.50	
			For Work In Restricted Working Space, Add	13.47	
			For Schedule 80 Nipples, Add	56.98	
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.71	11.38
			For ASTM 120, Deduct	-0.54	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	4.09	
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.78	11.38
			For ASTM 120, Deduct	-0.40	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	3.03	
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.46	11.38
			For ASTM 120, Deduct	-0.50	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	3.81	
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	20.71	11.38
			For ASTM 120, Deduct	-0.54	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	4.09	
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	19.78	11.38
			For ASTM 120, Deduct	-0.40	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	3.03	
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	20.46	11.38
			For ASTM 120, Deduct	-0.50	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	3.81	
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple	23.41	12.34
			For ASTM 120, Deduct	-0.75	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	5.67	
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	26.04	13.30
			For ASTM 120, Deduct	-0.91	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	6.91	
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	27.10	13.30
			For ASTM 120, Deduct	-1.07	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	8.12	
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.90	11.38
			For ASTM 120, Deduct	-0.72	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	5.45	
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.25	11.38
			For ASTM 120, Deduct	-0.47	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	3.57	
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.82	11.38
			For ASTM 120, Deduct	-0.56	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	4.22	
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.82	12.34
			For ASTM 120, Deduct	-0.81	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	6.13	
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	26.64	13.30
			For ASTM 120, Deduct	-1.00	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	7.59	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0201	EA	1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	27.92	13.30
		For ASTM 120, Deduct	.....	-1.19	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	9.05	
22 11 16 00-0202	EA	2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	36.29	17.14
		For ASTM 120, Deduct	.....	-1.58	
		For Work In Restricted Working Space, Add	.....	7.73	
		For Schedule 80 Nipples, Add	.....	11.99	
22 11 16 00-0203	EA	3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	21.90	11.38
		For ASTM 120, Deduct	.....	-0.72	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	5.45	
22 11 16 00-0204	EA	1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	20.25	11.38
		For ASTM 120, Deduct	.....	-0.47	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	3.57	
22 11 16 00-0205	EA	3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	20.82	11.38
		For ASTM 120, Deduct	.....	-0.56	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	4.22	
22 11 16 00-0206	EA	1" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	23.82	12.34
		For ASTM 120, Deduct	.....	-0.81	
		For Work In Restricted Working Space, Add	.....	5.53	
		For Schedule 80 Nipples, Add	.....	6.13	
22 11 16 00-0207	EA	1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	26.64	13.30
		For ASTM 120, Deduct	.....	-1.00	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	7.59	
22 11 16 00-0208	EA	1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	27.92	13.30
		For ASTM 120, Deduct	.....	-1.19	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	9.05	
22 11 16 00-0209	EA	2" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	36.29	17.14
		For ASTM 120, Deduct	.....	-1.58	
		For Work In Restricted Working Space, Add	.....	7.73	
		For Schedule 80 Nipples, Add	.....	11.99	
22 11 16 00-0210	EA	2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	60.84	21.33
		For ASTM 120, Deduct	.....	-4.33	
		For Work In Restricted Working Space, Add	.....	9.59	
		For Schedule 80 Nipples, Add	.....	32.93	
22 11 16 00-0211	EA	3" x 3" Long, Schedule 40 Galvanized Steel Nipple	.....	76.60	25.76
		For ASTM 120, Deduct	.....	-5.69	
		For Work In Restricted Working Space, Add	.....	11.60	
		For Schedule 80 Nipples, Add	.....	43.25	
22 11 16 00-0212	EA	3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	22.80	11.38
		For ASTM 120, Deduct	.....	-0.85	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	6.48	
22 11 16 00-0213	EA	1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	20.98	11.38
		For ASTM 120, Deduct	.....	-0.58	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	4.40	
22 11 16 00-0214	EA	3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	21.90	11.38
		For ASTM 120, Deduct	.....	-0.72	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	5.45	
22 11 16 00-0215	EA	1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	24.91	12.34
		For ASTM 120, Deduct	.....	-0.97	
		For Work In Restricted Working Space, Add	.....	5.53	
		For Schedule 80 Nipples, Add	.....	7.38	
22 11 16 00-0216	EA	1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	27.92	13.30
		For ASTM 120, Deduct	.....	-1.19	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	9.05	
22 11 16 00-0217	EA	1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	30.01	13.30
		For ASTM 120, Deduct	.....	-1.50	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	11.43	
22 11 16 00-0218	EA	2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	38.54	17.14
		For ASTM 120, Deduct	.....	-1.92	
		For Work In Restricted Working Space, Add	.....	7.73	
		For Schedule 80 Nipples, Add	.....	14.56	
22 11 16 00-0219	EA	2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	65.49	21.33
		For ASTM 120, Deduct	.....	-5.03	
		For Work In Restricted Working Space, Add	.....	9.59	
		For Schedule 80 Nipples, Add	.....	38.24	
22 11 16 00-0220	EA	3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	.....	83.18	25.76
		For ASTM 120, Deduct	.....	-6.68	
		For Work In Restricted Working Space, Add	.....	11.60	
		For Schedule 80 Nipples, Add	.....	50.75	
22 11 16 00-0221	EA	3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple	.....	22.80	11.38
		For ASTM 120, Deduct	.....	-0.85	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	6.48	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	20.98	11.38
			For ASTM 120, Deduct	-0.58	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	4.40	
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	22.80	11.38
			For ASTM 120, Deduct	-0.85	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	6.48	
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple	24.91	12.34
			For ASTM 120, Deduct	-0.97	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	7.38	
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple	27.92	13.30
			For ASTM 120, Deduct	-1.19	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	9.05	
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	30.01	13.30
			For ASTM 120, Deduct	-1.50	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	11.43	
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple	38.65	17.14
			For ASTM 120, Deduct	-1.93	
			For Work In Restricted Working Space, Add	7.73	
			For Schedule 80 Nipples, Add	14.68	
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple	65.49	21.33
			For ASTM 120, Deduct	-5.03	
			For Work In Restricted Working Space, Add	9.59	
			For Schedule 80 Nipples, Add	38.24	
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple	83.18	25.76
			For ASTM 120, Deduct	-6.68	
			For Work In Restricted Working Space, Add	11.60	
			For Schedule 80 Nipples, Add	50.75	
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple	104.65	29.97
			For ASTM 120, Deduct	-8.96	
			For Work In Restricted Working Space, Add	13.47	
			For Schedule 80 Nipples, Add	68.13	
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.95	11.38
			For ASTM 120, Deduct	-1.17	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	8.93	
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	21.77	11.38
			For ASTM 120, Deduct	-0.70	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	5.30	
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.83	11.38
			For ASTM 120, Deduct	-0.86	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	6.51	
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	26.38	12.34
			For ASTM 120, Deduct	-1.19	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	9.05	
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.79	13.30
			For ASTM 120, Deduct	-1.47	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	11.18	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	32.10	13.30
			For ASTM 120, Deduct	-1.82	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	13.82	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	42.08	17.14
			For ASTM 120, Deduct	-2.45	
			For Work In Restricted Working Space, Add	7.73	
			For Schedule 80 Nipples, Add	18.59	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	69.35	21.33
			For ASTM 120, Deduct	-5.61	
			For Work In Restricted Working Space, Add	9.59	
			For Schedule 80 Nipples, Add	42.64	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	90.54	25.76
			For ASTM 120, Deduct	-7.78	
			For Work In Restricted Working Space, Add	11.60	
			For Schedule 80 Nipples, Add	59.14	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	111.91	29.97
			For ASTM 120, Deduct	-10.05	
			For Work In Restricted Working Space, Add	13.47	
			For Schedule 80 Nipples, Add	76.40	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	24.95	11.38
			For ASTM 120, Deduct	-1.17	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	8.93	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	21.77	11.38
			For ASTM 120, Deduct	-0.70	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	5.30	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0243	EA	3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	22.83	11.38
		For ASTM 120, Deduct	.....	-0.86	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	6.51	
22 11 16 00-0244	EA	1" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	26.38	12.34
		For ASTM 120, Deduct	.....	-1.19	
		For Work In Restricted Working Space, Add	.....	5.53	
		For Schedule 80 Nipples, Add	.....	9.05	
22 11 16 00-0245	EA	1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	29.79	13.30
		For ASTM 120, Deduct	.....	-1.47	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	11.18	
22 11 16 00-0246	EA	1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	32.10	13.30
		For ASTM 120, Deduct	.....	-1.82	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	13.82	
22 11 16 00-0247	EA	2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	42.08	17.14
		For ASTM 120, Deduct	.....	-2.45	
		For Work In Restricted Working Space, Add	.....	7.73	
		For Schedule 80 Nipples, Add	.....	18.59	
22 11 16 00-0248	EA	2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	69.35	21.33
		For ASTM 120, Deduct	.....	-5.61	
		For Work In Restricted Working Space, Add	.....	9.59	
		For Schedule 80 Nipples, Add	.....	42.64	
22 11 16 00-0249	EA	3" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	90.54	25.76
		For ASTM 120, Deduct	.....	-7.78	
		For Work In Restricted Working Space, Add	.....	11.60	
		For Schedule 80 Nipples, Add	.....	59.14	
22 11 16 00-0250	EA	4" x 5" Long, Schedule 40 Galvanized Steel Nipple	.....	111.91	29.97
		For ASTM 120, Deduct	.....	-10.05	
		For Work In Restricted Working Space, Add	.....	13.47	
		For Schedule 80 Nipples, Add	.....	76.40	
22 11 16 00-0251	EA	3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	25.82	11.38
		For ASTM 120, Deduct	.....	-1.31	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	9.92	
22 11 16 00-0252	EA	1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	22.39	11.38
		For ASTM 120, Deduct	.....	-0.79	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	6.01	
22 11 16 00-0253	EA	3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	23.97	11.38
		For ASTM 120, Deduct	.....	-1.03	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	7.81	
22 11 16 00-0254	EA	1" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	27.44	12.34
		For ASTM 120, Deduct	.....	-1.35	
		For Work In Restricted Working Space, Add	.....	5.53	
		For Schedule 80 Nipples, Add	.....	10.26	
22 11 16 00-0255	EA	1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	31.37	13.30
		For ASTM 120, Deduct	.....	-1.71	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	12.98	
22 11 16 00-0256	EA	1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	33.62	13.30
		For ASTM 120, Deduct	.....	-2.05	
		For Work In Restricted Working Space, Add	.....	5.99	
		For Schedule 80 Nipples, Add	.....	15.55	
22 11 16 00-0257	EA	2" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	44.71	17.14
		For ASTM 120, Deduct	.....	-2.84	
		For Work In Restricted Working Space, Add	.....	7.73	
		For Schedule 80 Nipples, Add	.....	21.59	
22 11 16 00-0258	EA	2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	73.04	21.33
		For ASTM 120, Deduct	.....	-6.16	
		For Work In Restricted Working Space, Add	.....	9.59	
		For Schedule 80 Nipples, Add	.....	46.84	
22 11 16 00-0259	EA	3" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	93.53	25.76
		For ASTM 120, Deduct	.....	-8.23	
		For Work In Restricted Working Space, Add	.....	11.60	
		For Schedule 80 Nipples, Add	.....	62.55	
22 11 16 00-0260	EA	4" x 6" Long, Schedule 40 Galvanized Steel Nipple	.....	118.97	29.97
		For ASTM 120, Deduct	.....	-11.11	
		For Work In Restricted Working Space, Add	.....	13.47	
		For Schedule 80 Nipples, Add	.....	84.45	
22 11 16 00-0261	EA	3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple	.....	51.88	11.38
		For ASTM 120, Deduct	.....	-5.21	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	39.63	
22 11 16 00-0262	EA	1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	.....	26.41	11.38
		For ASTM 120, Deduct	.....	-1.39	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	10.59	
22 11 16 00-0263	EA	3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	.....	29.00	11.38
		For ASTM 120, Deduct	.....	-1.78	
		For Work In Restricted Working Space, Add	.....	5.14	
		For Schedule 80 Nipples, Add	.....	13.54	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple	33.50	12.34
			For ASTM 120, Deduct	-2.26	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	17.17	
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	38.43	13.30
			For ASTM 120, Deduct	-2.77	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	21.03	
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	41.15	13.30
			For ASTM 120, Deduct	-3.18	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	24.13	
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple	56.64	17.14
			For ASTM 120, Deduct	-4.63	
			For Work In Restricted Working Space, Add	7.73	
			For Schedule 80 Nipples, Add	35.19	
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	84.84	21.33
			For ASTM 120, Deduct	-7.93	
			For Work In Restricted Working Space, Add	9.59	
			For Schedule 80 Nipples, Add	60.29	
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple	112.58	25.76
			For ASTM 120, Deduct	-11.09	
			For Work In Restricted Working Space, Add	11.60	
			For Schedule 80 Nipples, Add	84.27	
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple	133.30	29.97
			For ASTM 120, Deduct	-13.26	
			For Work In Restricted Working Space, Add	13.47	
			For Schedule 80 Nipples, Add	100.79	
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple	33.70	11.38
			For ASTM 120, Deduct	-2.49	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	18.90	
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	28.15	11.38
			For ASTM 120, Deduct	-1.65	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	12.57	
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	30.30	11.38
			For ASTM 120, Deduct	-1.98	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	15.03	
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple	35.64	12.34
			For ASTM 120, Deduct	-2.58	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	19.61	
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	42.05	13.30
			For ASTM 120, Deduct	-3.31	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	25.16	
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	44.66	13.30
			For ASTM 120, Deduct	-3.70	
			For Work In Restricted Working Space, Add	5.99	
			For Schedule 80 Nipples, Add	28.14	
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple	61.89	17.14
			For ASTM 120, Deduct	-5.42	
			For Work In Restricted Working Space, Add	7.73	
			For Schedule 80 Nipples, Add	41.18	
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	92.23	21.33
			For ASTM 120, Deduct	-9.04	
			For Work In Restricted Working Space, Add	9.59	
			For Schedule 80 Nipples, Add	68.72	
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple	122.99	25.76
			For ASTM 120, Deduct	-12.65	
			For Work In Restricted Working Space, Add	11.60	
			For Schedule 80 Nipples, Add	96.14	
22 11 16 00-0280	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple	147.35	29.97
			For ASTM 120, Deduct	-15.37	
			For Work In Restricted Working Space, Add	13.47	
			For Schedule 80 Nipples, Add	116.80	
22 11 16 00-0281	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple	35.49	11.38
			For ASTM 120, Deduct	-2.76	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	20.94	
22 11 16 00-0282	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	29.68	11.38
			For ASTM 120, Deduct	-1.88	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	14.32	
22 11 16 00-0283	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	31.90	11.38
			For ASTM 120, Deduct	-2.22	
			For Work In Restricted Working Space, Add	5.14	
			For Schedule 80 Nipples, Add	16.85	
22 11 16 00-0284	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple	38.47	12.34
			For ASTM 120, Deduct	-3.00	
			For Work In Restricted Working Space, Add	5.53	
			For Schedule 80 Nipples, Add	22.83	



	Plumbing	22	
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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
22 11 16 00-0285	EA	1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	46.48	13.30
		For ASTM 120, Deduct	-3.98	
		For Work In Restricted Working Space, Add	5.99	
		For Schedule 80 Nipples, Add	30.21	
22 11 16 00-0286	EA	1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	48.22	13.30
		For ASTM 120, Deduct	-4.24	
		For Work In Restricted Working Space, Add	5.99	
		For Schedule 80 Nipples, Add	32.19	
22 11 16 00-0287	EA	2" x 12" Long, Schedule 40 Galvanized Steel Nipple	67.21	17.14
		For ASTM 120, Deduct	-6.22	
		For Work In Restricted Working Space, Add	7.73	
		For Schedule 80 Nipples, Add	47.24	
22 11 16 00-0288	EA	2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	99.40	21.33
		For ASTM 120, Deduct	-10.12	
		For Work In Restricted Working Space, Add	9.59	
		For Schedule 80 Nipples, Add	76.89	
22 11 16 00-0289	EA	3" x 12" Long, Schedule 40 Galvanized Steel Nipple	133.48	25.76
		For ASTM 120, Deduct	-14.22	
		For Work In Restricted Working Space, Add	11.60	
		For Schedule 80 Nipples, Add	108.09	
22 11 16 00-0290	EA	4" x 12" Long, Schedule 40 Galvanized Steel Nipple	161.53	29.97
		For ASTM 120, Deduct	-17.50	
		For Work In Restricted Working Space, Add	13.47	
		For Schedule 80 Nipples, Add	132.97	
22 11 16 00-0291		Galvanized Steel Dielectric Nipples With Polyethylene Liner (22 11 16 00-0013)		
		See CSI section 22 11 16 00-0837 for dielectric unions.		
22 11 16 00-0292	EA	1/2" Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	19.64	11.38
		For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0293	EA	1/2" Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	20.02	11.38
		For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0294	EA	3/4" Threaded x 2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	20.36	11.38
		For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0295	EA	3/4" Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	21.62	11.38
		For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0296	EA	3/4" Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	22.93	11.38
		For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0297	EA	3/4" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	23.71	11.38
		For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0298	EA	1" Threaded x 2-1/2" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	23.25	12.34
		For Work In Restricted Working Space, Add	5.54	
22 11 16 00-0299	EA	1" Threaded x 3" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	23.66	12.34
		For Work In Restricted Working Space, Add	5.54	
22 11 16 00-0300	EA	1" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	29.97	12.34
		For Work In Restricted Working Space, Add	5.54	
22 11 16 00-0301	EA	1-1/4" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	32.47	13.30
		For Work In Restricted Working Space, Add	6.01	
22 11 16 00-0302	EA	1-1/2" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	35.95	13.30
		For Work In Restricted Working Space, Add	6.01	
22 11 16 00-0303	EA	2" Threaded x 4" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	47.92	17.14
		For Work In Restricted Working Space, Add	7.73	
22 11 16 00-0304	EA	2-1/2" Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	57.19	21.33
		For Work In Restricted Working Space, Add	9.60	
22 11 16 00-0305	EA	3" Threaded x 6" Long, Schedule 40 Galvanized Steel With Polyethylene Liner, Dielectric Nipple.....	89.48	25.76
		For Work In Restricted Working Space, Add	11.61	
22 11 16 00-0306		Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0307	EA	1/2", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	19.98	8.50
		For Work In Restricted Working Space, Add	3.83	
		For 300 Lb. Rating, Add	25.25	
22 11 16 00-0308	EA	3/4", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	21.51	9.58
		For Work In Restricted Working Space, Add	4.29	
		For 300 Lb. Rating, Add	25.34	
22 11 16 00-0309	EA	1", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	23.88	10.66
		For Work In Restricted Working Space, Add	4.79	
		For 300 Lb. Rating, Add	27.82	
22 11 16 00-0310	EA	1-1/4", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	30.23	12.10
		For Work In Restricted Working Space, Add	5.43	
		For 300 Lb. Rating, Add	42.36	
22 11 16 00-0311	EA	1-1/2", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	36.76	13.54
		For Work In Restricted Working Space, Add	6.12	
		For 300 Lb. Rating, Add	56.85	
22 11 16 00-0312	EA	2", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	46.70	17.26
		For Work In Restricted Working Space, Add	7.77	
		For 300 Lb. Rating, Add	72.27	
22 11 16 00-0313	EA	2-1/2", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	78.91	25.52
		For Work In Restricted Working Space, Add	11.50	
		For 300 Lb. Rating, Add	140.24	
22 11 16 00-0314	EA	3", 150 Lb., Galvanized Malleable Iron Square Head Plug.....	108.02	33.67
		For Work In Restricted Working Space, Add	15.14	
		For 300 Lb. Rating, Add	198.73	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0315	EA		4", 150 Lb., Galvanized Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	171.87 15.71 409.41	34.90
22 11 16 00-0316	EA		5", 150 Lb., Galvanized Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	273.89 16.40 748.66	36.48
22 11 16 00-0317	EA		6", 150 Lb., Galvanized Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i> <i>For 300 Lb. Rating, Add</i>	294.15 17.14 809.26	38.05
22 11 16 00-0318 Galvanized Malleable Iron Bushing (22 11 16 00-0013)					
22 11 16 00-0319	EA		3/4" x 1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	43.00 10.16	22.53
22 11 16 00-0320	EA		1" x 1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	46.89 10.79	23.96
22 11 16 00-0321	EA		1" x 3/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	48.21 11.36	25.29
22 11 16 00-0322	EA		1-1/4" x 1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	53.90 11.58	25.76
22 11 16 00-0323	EA		1-1/4" x 3/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	54.42 12.15	26.96
22 11 16 00-0324	EA		1-1/4" x 1", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	56.50 12.77	28.40
22 11 16 00-0325	EA		1-1/2" x 1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	61.71 12.44	27.68
22 11 16 00-0326	EA		1-1/2" x 3/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	63.61 13.01	28.88
22 11 16 00-0327	EA		1-1/2" x 1", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	63.70 13.64	30.32
22 11 16 00-0328	EA		1-1/2" x 1-1/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	64.93 14.43	32.11
22 11 16 00-0329	EA		2" x 1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	73.63 14.51	32.23
22 11 16 00-0330	EA		2" x 3/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	73.78 15.08	33.55
22 11 16 00-0331	EA		2" x 1", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	74.58 15.71	34.87
22 11 16 00-0332	EA		2" x 1-1/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	77.22 16.50	36.67
22 11 16 00-0333	EA		2" x 1-1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	77.38 17.36	38.59
22 11 16 00-0334	EA		2-1/2" x 3/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	102.38 19.75	43.86
22 11 16 00-0335	EA		2-1/2" x 1", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	104.46 20.37	45.29
22 11 16 00-0336	EA		2-1/2" x 1-1/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	107.11 21.17	46.97
22 11 16 00-0337	EA		2-1/2" x 1-1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	109.33 22.03	49.01
22 11 16 00-0338	EA		2-1/2" x 2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	112.12 24.10	53.56
22 11 16 00-0339	EA		3" x 3/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	129.22 24.29	53.93
22 11 16 00-0340	EA		3" x 1", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	131.30 24.91	55.36
22 11 16 00-0341	EA		3" x 1-1/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	133.94 25.70	57.16
22 11 16 00-0342	EA		3" x 1-1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	135.89 26.57	59.08
22 11 16 00-0343	EA		3" x 2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	138.35 28.64	63.63
22 11 16 00-0344	EA		3" x 2-1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	156.39 33.30	74.05
22 11 16 00-0345	EA		4" x 3/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	183.38 24.67	54.78
22 11 16 00-0346	EA		4" x 1", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	185.34 25.25	56.12
22 11 16 00-0347	EA		4" x 1-1/4", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	187.80 25.99	57.80
22 11 16 00-0348	EA		4" x 1-1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	190.51 26.81	59.60
22 11 16 00-0349	EA		4" x 2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	185.05 28.74	63.87
22 11 16 00-0350	EA		4" x 2-1/2", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	211.52 33.11	73.63
22 11 16 00-0351	EA		4" x 3", 150 Lb., Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	219.02 37.37	83.05
22 11 16 00-0352 Galvanized Malleable Iron Floor Flange (22 11 16 00-0013)					
Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.					
22 11 16 00-0353	EA		1/2", 150 Lb., Galvanized Malleable Iron Floor Flange	73.89	43.79
22 11 16 00-0354	EA		3/4", 150 Lb., Galvanized Malleable Iron Floor Flange	80.78	47.93



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0355	EA	1", 150 Lb., Galvanized Malleable Iron Floor Flange	92.77	54.16	
22 11 16 00-0356	EA	1-1/4", 150 Lb., Galvanized Malleable Iron Floor Flange	96.42	56.08	
22 11 16 00-0357	EA	1-1/2", 150 Lb., Galvanized Malleable Iron Floor Flange	104.94	61.00	
22 11 16 00-0358	EA	2", 150 Lb., Galvanized Malleable Iron Floor Flange	113.02	63.63	
22 11 16 00-0359 Galvanized Cast Iron Flanges (22 11 16 00-0013)					
Note: Excludes bolt and gasket sets					
22 11 16 00-0360	EA	3/4", 125 Lb., Galvanized Cast Iron Flange	141.17	47.93	
		For Work In Restricted Working Space, Add	21.57		
22 11 16 00-0361	EA	1", 125 Lb., Galvanized Cast Iron Flange	134.87	54.16	
		For Work In Restricted Working Space, Add	24.37		
22 11 16 00-0362	EA	1-1/4", 125 Lb., Galvanized Cast Iron Flange	112.43	56.08	
		For Work In Restricted Working Space, Add	25.22		
22 11 16 00-0363	EA	1-1/2", 125 Lb., Galvanized Cast Iron Flange	133.33	61.00	
		For Work In Restricted Working Space, Add	27.44		
22 11 16 00-0364	EA	2", 125 Lb., Galvanized Cast Iron Flange	150.87	63.63	
		For Work In Restricted Working Space, Add	28.64		
22 11 16 00-0365	EA	2-1/2", 125 Lb., Galvanized Cast Iron Flange	175.23	73.70	
		For Work In Restricted Working Space, Add	33.13		
22 11 16 00-0366	EA	3", 125 Lb., Galvanized Cast Iron Flange	315.14	93.47	
		For Work In Restricted Working Space, Add	42.04		
22 11 16 00-0367	EA	4", 125 Lb., Galvanized Cast Iron Flange	417.91	119.76	
		For Work In Restricted Working Space, Add	53.86		
22 11 16 00-0368	EA	5", 125 Lb., Galvanized Cast Iron Flange	587.95	142.54	
		For Work In Restricted Working Space, Add	64.12		
22 11 16 00-0369	EA	6", 125 Lb., Galvanized Cast Iron Flange	645.51	163.76	
		For Work In Restricted Working Space, Add	73.66		
22 11 16 00-0370	EA	8", 125 Lb., Galvanized Cast Iron Flange	593.32	187.16	
		For Work In Restricted Working Space, Add	84.18		
22 11 16 00-0371 Cut And Thread Existing In-Place Galvanized Steel Pipe (22 11 16 00-0013)					
Note: For use when connecting pipe to an existing in-place system.					
22 11 16 00-0372	EA	1/2", Cut And Thread Existing In Place Galvanized Steel Pipe	39.04		
		For Work In Restricted Working Space, Add	11.71		
22 11 16 00-0373	EA	3/4", Cut And Thread Existing In Place Galvanized Steel Pipe	42.94		
		For Work In Restricted Working Space, Add	12.88		
22 11 16 00-0374	EA	1", Cut And Thread Existing In Place Galvanized Steel Pipe	46.84		
		For Work In Restricted Working Space, Add	14.05		
22 11 16 00-0375	EA	1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe	50.74		
		For Work In Restricted Working Space, Add	15.22		
22 11 16 00-0376	EA	1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe	53.35		
		For Work In Restricted Working Space, Add	16.01		
22 11 16 00-0377	EA	2", Cut And Thread Existing In Place Galvanized Steel Pipe	55.95		
		For Work In Restricted Working Space, Add	16.79		
22 11 16 00-0378	EA	2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe	58.55		
		For Work In Restricted Working Space, Add	17.57		
22 11 16 00-0379	EA	3", Cut And Thread Existing In Place Galvanized Steel Pipe	61.15		
		For Work In Restricted Working Space, Add	18.35		
22 11 16 00-0380	EA	4", Cut And Thread Existing In Place Galvanized Steel Pipe	63.75		
		For Work In Restricted Working Space, Add	19.13		
22 11 16 00-0381	EA	6", Cut And Thread Existing In Place Galvanized Steel Pipe	68.96		
		For Work In Restricted Working Space, Add	20.69		
22 11 16 00-0382	EA	8", Cut And Thread Existing In Place Galvanized Steel Pipe	74.16		
		For Work In Restricted Working Space, Add	22.25		
22 11 16 00-0383 Copper Pipe And Fittings (22 11 16)					
Note: Excludes hangers. See CSI section 22 11 16 00-0914 for pipe with fittings assembly.					
22 11 16 00-0384 Copper Tube/Pipe (22 11 16 00-0383)					
Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).					
22 11 16 00-0385 Hard Drawn Type L Copper Tube/Pipe (22 11 16 00-0384)					
22 11 16 00-0386	LF	1/4" Hard Drawn Type L Copper Tube/Pipe	6.28	2.93	
		For Up To 20, Add	0.68		
		For >200, Deduct	-0.19		
		For Work In Restricted Working Space, Add	1.31		
		For Medical/Oxygen Service Tubing, Add	0.15		
22 11 16 00-0387	LF	3/8" Hard Drawn Type L Copper Tube/Pipe	7.34	3.05	
		For Up To 20, Add	0.80		
		For >200, Deduct	-0.28		
		For Work In Restricted Working Space, Add	1.37		
		For Medical/Oxygen Service Tubing, Add	0.22		
22 11 16 00-0388	LF	1/2" Hard Drawn Type L Copper Tube/Pipe	8.06	3.18	
		For Up To 20, Add	0.89		
		For >200, Deduct	-0.33		
		For Work In Restricted Working Space, Add	1.43		
		For Medical/Oxygen Service Tubing, Add	0.26		
22 11 16 00-0389	LF	3/4" Hard Drawn Type L Copper Tube/Pipe	10.42	3.37	
		For Up To 20, Add	1.18		
		For >200, Deduct	-0.54		
		For Work In Restricted Working Space, Add	1.52		
		For Medical/Oxygen Service Tubing, Add	0.43		

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0390	LF	1"	Hard Drawn Type L Copper Tube/Pipe	13.44	3.78
			For Up To 20, Add	1.54	
			For >200, Deduct	-0.78	
			For Work In Restricted Working Space, Add	1.70	
			For Medical/Oxygen Service Tubing, Add	0.62	
22 11 16 00-0391	LF	1-1/4"	Hard Drawn Type L Copper Tube/Pipe	19.13	5.63
			For Up To 20, Add	2.18	
			For >200, Deduct	-1.07	
			For Work In Restricted Working Space, Add	2.53	
			For Medical/Oxygen Service Tubing, Add	0.86	
22 11 16 00-0392	LF	1-1/2"	Hard Drawn Type L Copper Tube/Pipe	23.18	6.29
			For Up To 20, Add	2.66	
			For >200, Deduct	-1.38	
			For Work In Restricted Working Space, Add	2.83	
			For Medical/Oxygen Service Tubing, Add	1.10	
22 11 16 00-0393	LF	2"	Hard Drawn Type L Copper Tube/Pipe	33.39	7.75
			For Up To 20, Add	3.88	
			For >200, Deduct	-2.18	
			For Work In Restricted Working Space, Add	3.49	
			For Medical/Oxygen Service Tubing, Add	1.74	
22 11 16 00-0394	LF	2-1/2"	Hard Drawn Type L Copper Tube/Pipe	58.85	9.12
			For Up To 20, Add	6.67	
			For >200, Deduct	-3.15	
			For Work In Restricted Working Space, Add	8.22	
			For Medical/Oxygen Service Tubing, Add	2.52	
22 11 16 00-0395	LF	3"	Hard Drawn Type L Copper Tube/Pipe	74.16	10.74
			For Up To 20, Add	8.46	
			For >200, Deduct	-4.20	
			For Work In Restricted Working Space, Add	9.66	
			For Medical/Oxygen Service Tubing, Add	3.36	
22 11 16 00-0396	LF	4"	Hard Drawn Type L Copper Tube/Pipe	111.12	12.13
			For Up To 20, Add	12.98	
			For >200, Deduct	-7.48	
			For Work In Restricted Working Space, Add	10.91	
			For Medical/Oxygen Service Tubing, Add	5.98	
22 11 16 00-0397	LF	5"	Hard Drawn Type L Copper Tube/Pipe	173.81	13.93
			For Up To 20, Add	20.68	
			For >200, Deduct	-13.20	
			For Work In Restricted Working Space, Add	12.53	
			For Medical/Oxygen Service Tubing, Add	10.56	
22 11 16 00-0398	LF	6"	Hard Drawn Type L Copper Tube/Pipe	238.43	21.58
			For Up To 20, Add	28.19	
			For >200, Deduct	-17.37	
			For Work In Restricted Working Space, Add	19.41	
			For Medical/Oxygen Service Tubing, Add	13.90	
22 11 16 00-0399	LF	8"	Hard Drawn Type L Copper Tube/Pipe	399.33	23.99
			For Up To 20, Add	48.12	
			For >200, Deduct	-32.74	
			For Work In Restricted Working Space, Add	21.58	
			For Medical/Oxygen Service Tubing, Add	26.19	
22 11 16 00-0400			Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0384)		
22 11 16 00-0401	LF	1/4"	Hard Drawn Type K Copper Tube/Pipe	6.84	3.15
			For Up To 20, Add	0.74	
			For >200, Deduct	-0.21	
			For Work In Restricted Working Space, Add	1.41	
			For Medical/Oxygen Service Tubing, Add	0.17	
22 11 16 00-0402	LF	3/8"	Hard Drawn Type K Copper Tube/Pipe	9.21	3.28
			For Up To 20, Add	1.02	
			For >200, Deduct	-0.38	
			For Work In Restricted Working Space, Add	1.62	
			For Medical/Oxygen Service Tubing, Add	0.31	
22 11 16 00-0403	LF	1/2"	Hard Drawn Type K Copper Tube/Pipe	9.75	3.41
			For Up To 20, Add	1.09	
			For >200, Deduct	-0.45	
			For Work In Restricted Working Space, Add	1.58	
			For Medical/Oxygen Service Tubing, Add	0.36	
22 11 16 00-0404	LF	3/4"	Hard Drawn Type K Copper Tube/Pipe	14.18	3.61
			For Up To 20, Add	1.62	
			For >200, Deduct	-0.81	
			For Work In Restricted Working Space, Add	1.83	
			For Medical/Oxygen Service Tubing, Add	0.65	
22 11 16 00-0405	LF	1"	Hard Drawn Type K Copper Tube/Pipe	17.23	4.08
			For Up To 20, Add	1.99	
			For >200, Deduct	-1.08	
			For Work In Restricted Working Space, Add	1.94	
			For Medical/Oxygen Service Tubing, Add	0.86	
22 11 16 00-0406	LF	1-1/4"	Hard Drawn Type K Copper Tube/Pipe	22.56	6.06
			For Up To 20, Add	2.59	
			For >200, Deduct	-1.34	
			For Work In Restricted Working Space, Add	2.75	
			For Medical/Oxygen Service Tubing, Add	1.07	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0407	LF	1-1/2"	Hard Drawn Type K Copper Tube/Pipe.....	27.47	6.75
			For Up To 20, Add	3.18	
			For >200, Deduct	-1.72	
			For Work In Restricted Working Space, Add	3.10	
			For Medical/Oxygen Service Tubing, Add	1.37	
22 11 16 00-0408	LF	2"	Hard Drawn Type K Copper Tube/Pipe	39.01	8.34
			For Up To 20, Add	4.56	
			For >200, Deduct	-2.64	
			For Work In Restricted Working Space, Add	3.80	
			For Medical/Oxygen Service Tubing, Add	2.11	
22 11 16 00-0409	LF	2-1/2"	Hard Drawn Type K Copper Tube/Pipe.....	66.79	9.81
			For Up To 20, Add	7.66	
			For >200, Deduct	-3.93	
			For Work In Restricted Working Space, Add	8.25	
			For Medical/Oxygen Service Tubing, Add	3.14	
22 11 16 00-0410	LF	3"	Hard Drawn Type K Copper Tube/Pipe	89.14	11.55
			For Up To 20, Add	10.26	
			For >200, Deduct	-5.37	
			For Work In Restricted Working Space, Add	10.64	
			For Medical/Oxygen Service Tubing, Add	4.29	
22 11 16 00-0411	LF	4"	Hard Drawn Type K Copper Tube/Pipe	135.86	13.04
			For Up To 20, Add	15.98	
			For >200, Deduct	-9.57	
			For Work In Restricted Working Space, Add	12.05	
			For Medical/Oxygen Service Tubing, Add	7.66	
22 11 16 00-0412	LF	5"	Hard Drawn Type K Copper Tube/Pipe	222.76	14.97
			For Up To 20, Add	26.66	
			For >200, Deduct	-17.53	
			For Work In Restricted Working Space, Add	14.23	
			For Medical/Oxygen Service Tubing, Add	14.03	
22 11 16 00-0413	LF	6"	Hard Drawn Type K Copper Tube/Pipe	328.04	23.20
			For Up To 20, Add	39.09	
			For >200, Deduct	-25.16	
			For Work In Restricted Working Space, Add	22.94	
			For Medical/Oxygen Service Tubing, Add	20.13	
22 11 16 00-0414	LF	8"	Hard Drawn Type K Copper Tube/Pipe	555.34	25.79
			For Up To 20, Add	67.31	
			For >200, Deduct	-47.11	
			For Work In Restricted Working Space, Add	25.27	
			For Medical/Oxygen Service Tubing, Add	37.69	
22 11 16 00-0415			Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0384)		
22 11 16 00-0416	LF	3/8"	Hard Drawn Type M Copper Tube/Pipe	6.13	2.75
			For Up To 20, Add	0.67	
			For >200, Deduct	-0.22	
			For Work In Restricted Working Space, Add	1.19	
22 11 16 00-0417	LF	1/2"	Hard Drawn Type M Copper Tube/Pipe	6.52	2.87
			For Up To 20, Add	0.71	
			For >200, Deduct	-0.24	
			For Work In Restricted Working Space, Add	1.23	
22 11 16 00-0418	LF	3/4"	Hard Drawn Type M Copper Tube/Pipe	8.28	3.03
			For Up To 20, Add	0.93	
			For >200, Deduct	-0.39	
			For Work In Restricted Working Space, Add	1.31	
22 11 16 00-0419	LF	1"	Hard Drawn Type M Copper Tube/Pipe	10.91	3.41
			For Up To 20, Add	1.24	
			For >200, Deduct	-0.61	
			For Work In Restricted Working Space, Add	1.46	
22 11 16 00-0420	LF	1-1/4"	Hard Drawn Type M Copper Tube/Pipe	16.31	5.08
			For Up To 20, Add	1.85	
			For >200, Deduct	-0.88	
			For Work In Restricted Working Space, Add	2.24	
22 11 16 00-0421	LF	1-1/2"	Hard Drawn Type M Copper Tube/Pipe	20.76	5.66
			For Up To 20, Add	2.38	
			For >200, Deduct	-1.22	
			For Work In Restricted Working Space, Add	2.58	
22 11 16 00-0422	LF	2"	Hard Drawn Type M Copper Tube/Pipe	29.81	6.97
			For Up To 20, Add	3.46	
			For >200, Deduct	-1.92	
			For Work In Restricted Working Space, Add	3.20	
22 11 16 00-0423	LF	2-1/2"	Hard Drawn Type M Copper Tube/Pipe	53.67	8.21
			For Up To 20, Add	6.06	
			For >200, Deduct	-2.78	
			For Work In Restricted Working Space, Add	7.76	
22 11 16 00-0424	LF	3"	Hard Drawn Type M Copper Tube/Pipe	66.03	9.67
			For Up To 20, Add	7.53	
			For >200, Deduct	-3.70	
			For Work In Restricted Working Space, Add	8.72	
22 11 16 00-0425	LF	4"	Hard Drawn Type M Copper Tube/Pipe	103.13	10.92
			For Up To 20, Add	12.04	
			For >200, Deduct	-6.92	
			For Work In Restricted Working Space, Add	10.18	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0426 LF 5" Hard Drawn Type M Copper Tube/Pipe	173.51	12.53
For Up To 20, Add	20.71	
For >200, Deduct	-13.44	
For Work In Restricted Working Space, Add	11.75	
22 11 16 00-0427 LF 6" Hard Drawn Type M Copper Tube/Pipe	240.14	19.42
For Up To 20, Add	28.50	
For >200, Deduct	-17.95	
For Work In Restricted Working Space, Add	18.20	
22 11 16 00-0428 LF 8" Hard Drawn Type M Copper Tube/Pipe	406.85	21.59
For Up To 20, Add	49.19	
For >200, Deduct	-34.01	
For Work In Restricted Working Space, Add	20.01	
22 11 16 00-0429 Soft Drawn Type L Copper Tube (22 11 16 00-0384)		
22 11 16 00-0430 LF 1/4" Soft Drawn Type L Copper Tube	6.82	2.93
For Up To 20, Add	0.74	
For >200, Deduct	-0.24	
For Work In Restricted Working Space, Add	1.31	
22 11 16 00-0431 LF 3/8" Soft Drawn Type L Copper Tube	8.36	3.05
For Up To 20, Add	0.93	
For >200, Deduct	-0.38	
For Work In Restricted Working Space, Add	1.37	
22 11 16 00-0432 LF 1/2" Soft Drawn Type L Copper Tube	9.85	3.18
For Up To 20, Add	1.11	
For >200, Deduct	-0.51	
For Work In Restricted Working Space, Add	1.43	
22 11 16 00-0433 LF 5/8" Soft Drawn Type L Copper Tube	11.44	3.28
For Up To 20, Add	1.31	
For >200, Deduct	-0.65	
For Work In Restricted Working Space, Add	1.47	
22 11 16 00-0434 LF 3/4" Soft Drawn Type L Copper Tube	12.85	3.37
For Up To 20, Add	1.48	
For >200, Deduct	-0.78	
For Work In Restricted Working Space, Add	1.52	
22 11 16 00-0435 LF 1" Soft Drawn Type L Copper Tube	16.47	3.78
For Up To 20, Add	1.92	
For >200, Deduct	-1.08	
For Work In Restricted Working Space, Add	1.70	
22 11 16 00-0436 LF 1-1/4" Soft Drawn Type L Copper Tube	22.64	5.63
For Up To 20, Add	2.62	
For >200, Deduct	-1.42	
For Work In Restricted Working Space, Add	2.53	
22 11 16 00-0437 LF 1-1/2" Soft Drawn Type L Copper Tube	28.67	6.29
For Up To 20, Add	3.35	
For >200, Deduct	-1.93	
For Work In Restricted Working Space, Add	2.83	
22 11 16 00-0438 LF 2" Soft Drawn Type L Copper Tube	42.23	7.75
For Up To 20, Add	4.99	
For >200, Deduct	-3.06	
For Work In Restricted Working Space, Add	3.49	
22 11 16 00-0439 Soft Drawn Type K Copper Tube (22 11 16 00-0384)		
22 11 16 00-0440 LF 1/4" Soft Drawn Type K Copper Tube	7.07	2.93
For Up To 20, Add	0.77	
For >200, Deduct	-0.27	
For Work In Restricted Working Space, Add	1.31	
22 11 16 00-0441 LF 3/8" Soft Drawn Type K Copper Tube	9.15	3.05
For Up To 20, Add	1.03	
For >200, Deduct	-0.46	
For Work In Restricted Working Space, Add	1.37	
22 11 16 00-0442 LF 1/2" Soft Drawn Type K Copper Tube	10.50	3.18
For Up To 20, Add	1.19	
For >200, Deduct	-0.57	
For Work In Restricted Working Space, Add	1.43	
22 11 16 00-0443 LF 5/8" Soft Drawn Type K Copper Tube	11.76	3.28
For Up To 20, Add	1.35	
For >200, Deduct	-0.69	
For Work In Restricted Working Space, Add	1.47	
22 11 16 00-0444 LF 3/4" Soft Drawn Type K Copper Tube	15.69	3.37
For Up To 20, Add	1.83	
For >200, Deduct	-1.06	
For Work In Restricted Working Space, Add	1.52	
22 11 16 00-0445 LF 1" Soft Drawn Type K Copper Tube	19.79	3.78
For Up To 20, Add	2.33	
For >200, Deduct	-1.41	
For Work In Restricted Working Space, Add	1.70	
22 11 16 00-0446 LF 1-1/4" Soft Drawn Type K Copper Tube	25.07	5.63
For Up To 20, Add	2.92	
For >200, Deduct	-1.66	
For Work In Restricted Working Space, Add	2.53	



Plumbing			22
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 11 16 00-0447	LF 1-1/2" Soft Drawn Type K Copper Tube	32.53		6.29
	For Up To 20, Add	3.83		
	For >200, Deduct	-2.31		
	For Work In Restricted Working Space, Add	2.83		
22 11 16 00-0448	LF 2" Soft Drawn Type K Copper Tube	47.54		7.75
	For Up To 20, Add	5.65		
	For >200, Deduct	-3.59		
	For Work In Restricted Working Space, Add	3.49		
22 11 16 00-0449	LF 2-1/2" Soft Drawn Type K Copper Tube	67.82		9.30
	For Up To 20, Add	8.13		
	For >200, Deduct	-5.39		
	For Work In Restricted Working Space, Add	4.19		
22 11 16 00-0450	LF 3" Soft Drawn Type K Copper Tube	91.40		10.97
	For Up To 20, Add	11.01		
	For >200, Deduct	-7.50		
	For Work In Restricted Working Space, Add	4.94		
22 11 16 00-0451	Copper And Brass Fittings (22 11 16 00-0383)			
	Note: All fittings are based on 95/5 solder.			
22 11 16 00-0452	90 Degree Copper Elbows (22 11 16 00-0451)			
22 11 16 00-0453	EA 1/4" 90 Degree Copper Elbow	29.17		17.36
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.76		
	For Brazed Fittings Instead Of 95/5 Solder, Add	3.90		
	For Street Fitting, Add	1.26		
	For Work In Restricted Working Space, Add	7.81		
	For Silver Solder Instead Of 95/5 Solder, Add	4.06		
22 11 16 00-0454	EA 3/8" 90 Degree Copper Elbow	34.55		20.82
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.29		
	For Brazed Fittings Instead Of 95/5 Solder, Add	4.68		
	For Street Fitting, Add	1.33		
	For Work In Restricted Working Space, Add	9.37		
	For Silver Solder Instead Of 95/5 Solder, Add	4.85		
22 11 16 00-0455	EA 1/2" 90 Degree Copper Elbow	44.02		28.62
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.35		
	For Brazed Fittings Instead Of 95/5 Solder, Add	6.44		
	For Street Fitting, Add	0.43		
	For Work In Restricted Working Space, Add	12.88		
	For Silver Solder Instead Of 95/5 Solder, Add	6.50		
22 11 16 00-0456	EA 3/4" 90 Degree Copper Elbow	55.77		35.66
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.46		
	For Brazed Fittings Instead Of 95/5 Solder, Add	8.00		
	For Street Fitting, Add	0.97		
	For Work In Restricted Working Space, Add	16.01		
	For Silver Solder Instead Of 95/5 Solder, Add	8.12		
22 11 16 00-0457	EA 1" 90 Degree Copper Elbow	69.67		42.55
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.67		
	For Brazed Fittings Instead Of 95/5 Solder, Add	9.56		
	For Street Fitting, Add	2.37		
	For Work In Restricted Working Space, Add	19.13		
	For Silver Solder Instead Of 95/5 Solder, Add	9.86		
22 11 16 00-0458	EA 1-1/4" 90 Degree Copper Elbow	77.81		46.06
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.34		
	For Brazed Fittings Instead Of 95/5 Solder, Add	10.34		
	For Street Fitting, Add	3.54		
	For Work In Restricted Working Space, Add	20.69		
	For Silver Solder Instead Of 95/5 Solder, Add	10.79		
22 11 16 00-0459	EA 1-1/2" 90 Degree Copper Elbow	89.31		50.35
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.24		
	For Brazed Fittings Instead Of 95/5 Solder, Add	11.32		
	For Street Fitting, Add	5.54		
	For Work In Restricted Working Space, Add	22.64		
	For Silver Solder Instead Of 95/5 Solder, Add	12.01		
22 11 16 00-0460	EA 2" 90 Degree Copper Elbow	109.80		56.47
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.72		
	For Brazed Fittings Instead Of 95/5 Solder, Add	12.69		
	For Street Fitting, Add	10.09		
	For Work In Restricted Working Space, Add	25.37		
	For Silver Solder Instead Of 95/5 Solder, Add	13.95		
22 11 16 00-0461	EA 2-1/2" 90 Degree Copper Elbow	135.18		57.52
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.07		
	For Brazed Fittings Instead Of 95/5 Solder, Add	12.94		
	For Work In Restricted Working Space, Add	25.88		
	For Silver Solder Instead Of 95/5 Solder, Add	15.39		
22 11 16 00-0462	EA 3" 90 Degree Copper Elbow	172.02		68.78
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.75		
	For Brazed Fittings Instead Of 95/5 Solder, Add	15.46		
	For Work In Restricted Working Space, Add	30.92		
	For Silver Solder Instead Of 95/5 Solder, Add	18.91		
22 11 16 00-0463	EA 4" 90 Degree Copper Elbow	313.51		97.54
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.99		
	For Brazed Fittings Instead Of 95/5 Solder, Add	21.93		
	For Work In Restricted Working Space, Add	43.86		
	For Silver Solder Instead Of 95/5 Solder, Add	30.30		

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0464	EA		5" 90 Degree Copper Elbow	901.05	133.49
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-55.06	
			For Brazed Fittings Instead Of 95/5 Solder, Add	30.02	
			For Work In Restricted Working Space, Add	60.04	
			For Silver Solder Instead Of 95/5 Solder, Add	65.06	
22 11 16 00-0465	EA		6" 90 Degree Copper Elbow	1,225.57	194.25
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-75.84	
			For Brazed Fittings Instead Of 95/5 Solder, Add	43.68	
			For Work In Restricted Working Space, Add	87.35	
			For Silver Solder Instead Of 95/5 Solder, Add	90.40	
22 11 16 00-0466	EA		8" 90 Degree Copper Elbow	3,845.01	258.96
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-211.66	
			For Brazed Fittings Instead Of 95/5 Solder, Add	58.24	
			For Work In Restricted Working Space, Add	116.48	
			For Silver Solder Instead Of 95/5 Solder, Add	231.08	
22 11 16 00-0467 90 Degree Brass Elbows (22 11 16 00-0451)					
22 11 16 00-0468	EA		1/2" Drop Ear 90 Degree Brass Elbow	49.69	28.62
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.63	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.44	
			For Work In Restricted Working Space, Add	12.88	
			For Silver Solder Instead Of 95/5 Solder, Add	6.78	
22 11 16 00-0469	EA		3/4" Drop Ear 90 Degree Brass Elbow	73.05	35.66
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.32	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.00	
			For Work In Restricted Working Space, Add	16.01	
			For Silver Solder Instead Of 95/5 Solder, Add	8.99	
22 11 16 00-0470	EA		1/2" Flanged Sink 90 Degree Brass Elbow	55.25	28.62
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.44	
			For Work In Restricted Working Space, Add	12.88	
			For Silver Solder Instead Of 95/5 Solder, Add	7.06	
22 11 16 00-0471	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	41.33	20.82
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.63	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.68	
			For Work In Restricted Working Space, Add	9.37	
			For Silver Solder Instead Of 95/5 Solder, Add	5.19	
22 11 16 00-0472	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	50.17	28.62
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.66	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.44	
			For Work In Restricted Working Space, Add	12.88	
			For Silver Solder Instead Of 95/5 Solder, Add	6.80	
22 11 16 00-0473	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	66.08	35.66
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.97	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.00	
			For Work In Restricted Working Space, Add	16.01	
			For Silver Solder Instead Of 95/5 Solder, Add	8.64	
22 11 16 00-0474	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded	104.40	42.55
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.41	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.56	
			For Work In Restricted Working Space, Add	19.13	
			For Silver Solder Instead Of 95/5 Solder, Add	11.60	
22 11 16 00-0475 Reducing 90 Degree Copper Elbows (22 11 16 00-0451)					
22 11 16 00-0476	EA		1/2" Reducing 90 Degree Copper Elbow	51.67	28.62
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.73	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.44	
			For Work In Restricted Working Space, Add	12.88	
			For Silver Solder Instead Of 95/5 Solder, Add	6.88	
22 11 16 00-0477	EA		3/4" Reducing 90 Degree Copper Elbow	59.54	35.66
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.64	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.00	
			For Work In Restricted Working Space, Add	16.01	
			For Silver Solder Instead Of 95/5 Solder, Add	8.31	
22 11 16 00-0478	EA		1" Reducing 90 Degree Copper Elbow	75.11	42.55
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.94	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.56	
			For Work In Restricted Working Space, Add	19.13	
			For Silver Solder Instead Of 95/5 Solder, Add	10.13	
22 11 16 00-0479	EA		1-1/4" Reducing 90 Degree Copper Elbow	97.89	46.06
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.34	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.34	
			For Work In Restricted Working Space, Add	20.69	
			For Silver Solder Instead Of 95/5 Solder, Add	11.79	
22 11 16 00-0480	EA		1-1/2" Reducing 90 Degree Copper Elbow	113.49	50.35
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.45	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.32	
			For Work In Restricted Working Space, Add	22.64	
			For Silver Solder Instead Of 95/5 Solder, Add	13.22	
22 11 16 00-0481	EA		2" Reducing 90 Degree Copper Elbow	135.74	56.47
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.02	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.69	
			For Work In Restricted Working Space, Add	25.37	
			For Silver Solder Instead Of 95/5 Solder, Add	15.24	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 11 16 00-0482	45 Degree Copper Elbows (22 11 16 00-0451)			
22 11 16 00-0483	EA 1/4" 45 Degree Copper Elbow	31.89		17.36
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.90		
	For Brazed Fittings Instead Of 95/5 Solder, Add	3.90		
	For Street Fitting, Add	2.34		
	For Work In Restricted Working Space, Add	7.81		
	For Silver Solder Instead Of 95/5 Solder, Add	4.20		
22 11 16 00-0484	EA 3/8" 45 Degree Copper Elbow	36.25		20.82
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.37		
	For Brazed Fittings Instead Of 95/5 Solder, Add	4.68		
	For Street Fitting, Add	2.01		
	For Work In Restricted Working Space, Add	9.37		
	For Silver Solder Instead Of 95/5 Solder, Add	4.94		
22 11 16 00-0485	EA 1/2" 45 Degree Copper Elbow	44.91		28.62
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.39		
	For Brazed Fittings Instead Of 95/5 Solder, Add	6.44		
	For Street Fitting, Add	0.79		
	For Work In Restricted Working Space, Add	12.88		
	For Silver Solder Instead Of 95/5 Solder, Add	6.54		
22 11 16 00-0486	EA 3/4" 45 Degree Copper Elbow	56.73		35.66
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.50		
	For Brazed Fittings Instead Of 95/5 Solder, Add	8.00		
	For Street Fitting, Add	1.35		
	For Work In Restricted Working Space, Add	16.01		
	For Silver Solder Instead Of 95/5 Solder, Add	8.17		
22 11 16 00-0487	EA 1" 45 Degree Copper Elbow	72.18		42.55
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.80		
	For Brazed Fittings Instead Of 95/5 Solder, Add	9.56		
	For Street Fitting, Add	3.37		
	For Work In Restricted Working Space, Add	19.13		
	For Silver Solder Instead Of 95/5 Solder, Add	9.98		
22 11 16 00-0488	EA 1-1/4" 45 Degree Copper Elbow	80.38		46.06
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.47		
	For Brazed Fittings Instead Of 95/5 Solder, Add	10.34		
	For Street Fitting, Add	4.57		
	For Work In Restricted Working Space, Add	20.69		
	For Silver Solder Instead Of 95/5 Solder, Add	10.92		
22 11 16 00-0489	EA 1-1/2" 45 Degree Copper Elbow	89.49		50.35
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.25		
	For Brazed Fittings Instead Of 95/5 Solder, Add	11.32		
	For Street Fitting, Add	5.61		
	For Work In Restricted Working Space, Add	22.64		
	For Silver Solder Instead Of 95/5 Solder, Add	12.02		
22 11 16 00-0490	EA 2" 45 Degree Copper Elbow	107.94		56.47
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.63		
	For Brazed Fittings Instead Of 95/5 Solder, Add	12.69		
	For Work In Restricted Working Space, Add	25.37		
	For Silver Solder Instead Of 95/5 Solder, Add	13.85		
22 11 16 00-0491	EA 2-1/2" 45 Degree Copper Elbow	134.59		57.52
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.04		
	For Brazed Fittings Instead Of 95/5 Solder, Add	12.94		
	For Work In Restricted Working Space, Add	25.88		
	For Silver Solder Instead Of 95/5 Solder, Add	15.36		
22 11 16 00-0492	EA 3" 45 Degree Copper Elbow	174.74		68.78
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.89		
	For Brazed Fittings Instead Of 95/5 Solder, Add	15.46		
	For Work In Restricted Working Space, Add	30.92		
	For Silver Solder Instead Of 95/5 Solder, Add	19.04		
22 11 16 00-0493	EA 4" 45 Degree Copper Elbow	299.04		97.54
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.26		
	For Brazed Fittings Instead Of 95/5 Solder, Add	21.93		
	For Work In Restricted Working Space, Add	43.86		
	For Silver Solder Instead Of 95/5 Solder, Add	29.57		
22 11 16 00-0494	EA 5" 45 Degree Copper Elbow	792.02		133.49
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-49.61		
	For Brazed Fittings Instead Of 95/5 Solder, Add	30.02		
	For Work In Restricted Working Space, Add	60.04		
	For Silver Solder Instead Of 95/5 Solder, Add	59.61		
22 11 16 00-0495	EA 6" 45 Degree Copper Elbow	1,223.97		194.25
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-75.76		
	For Brazed Fittings Instead Of 95/5 Solder, Add	43.68		
	For Work In Restricted Working Space, Add	87.35		
	For Silver Solder Instead Of 95/5 Solder, Add	90.32		
22 11 16 00-0496	EA 8" 45 Degree Copper Elbow	3,557.84		258.96
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-197.30		
	For Brazed Fittings Instead Of 95/5 Solder, Add	58.24		
	For Work In Restricted Working Space, Add	116.48		
	For Silver Solder Instead Of 95/5 Solder, Add	216.72		

22 11 16 00-0497 Straight Copper And Brass Tees (22 11 16 00-0451)

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0498	EA	1/4"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	45.62 -4.23 5.86 11.71 6.19	26.03
22 11 16 00-0499	EA	3/8"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	52.13 -4.95 7.03 14.05 7.29	31.23
22 11 16 00-0500	EA	1/2"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	66.90 -6.60 9.76 19.52 9.85	43.46
22 11 16 00-0501	EA	3/4"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	85.09 -8.29 12.10 24.20 12.32	53.87
22 11 16 00-0502	EA	1"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	109.59 -10.29 14.44 28.89 15.11	64.28
22 11 16 00-0503	EA	1-1/4"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	122.62 -11.34 15.61 31.23 16.54	69.48
22 11 16 00-0504	EA	1-1/2"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	141.23 -12.72 16.98 33.96 18.38	75.47
22 11 16 00-0505	EA	2"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	172.07 -14.98 19.13 38.25 21.35	85.10
22 11 16 00-0506	EA	2-1/2"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	216.57 -17.30 19.41 38.82 23.77	86.28
22 11 16 00-0507	EA	3"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	288.94 -22.24 23.37 46.73 30.03	103.90
22 11 16 00-0508	EA	4"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	540.37 -37.92 32.71 65.43 48.83	145.47
22 11 16 00-0509	EA	5"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	1,351.90 -82.51 44.76 89.51 97.43	199.03
22 11 16 00-0510	EA	6"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	1,877.52 -115.75 65.61 131.21 137.61	291.79
22 11 16 00-0511	EA	8"	Straight Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	6,137.67 -336.00 87.36 174.71 365.12	388.50
22 11 16 00-0512	EA	1/2"	Cast Bronze Drop Ear Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	76.44 -7.07 9.76 19.52 10.33	43.46

22 11 16 00-0513 Reducing Copper Tees (22 11 16 00-0451)

22 11 16 00-0514	EA	3/8"	Reducing Copper Tee..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	52.10 -4.69 6.25 12.49 6.77	27.71



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
22 11 16 00-0515	EA	1/2" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	67.76 -6.32 8.78 17.57 9.24	39.04
22 11 16 00-0516	EA	3/4" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	80.16 -7.78 11.32 22.64 11.56	50.35
22 11 16 00-0517	EA	1" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	105.99 -9.85 13.66 27.32 14.41	60.76
22 11 16 00-0518	EA	1-1/4" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	121.51 -11.02 14.83 29.66 15.96	65.97
22 11 16 00-0519	EA	1-1/2" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	139.98 -12.40 16.20 32.40 17.80	72.09
22 11 16 00-0520	EA	2" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	167.25 -14.41 18.15 36.30 20.46	80.67
22 11 16 00-0521	EA	2-1/2" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	220.11 -17.24 18.69 37.39 23.47	83.16
22 11 16 00-0522	EA	3" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	300.59 -22.22 21.57 43.14 29.41	95.87
22 11 16 00-0523	EA	4" Reducing Copper Tee For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	507.43 -34.24 26.60 53.21 43.11	118.28
22 11 16 00-0524	Copper Couplings (22 11 16 00-0451)			
22 11 16 00-0525	EA	1/4" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	22.23 -2.19 3.24 6.48 3.27	14.44
22 11 16 00-0526	EA	3/8" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	26.76 -2.63 3.89 7.78 3.93	17.31
22 11 16 00-0527	EA	1/2" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	36.33 -3.60 5.35 10.69 5.38	23.68
22 11 16 00-0528	EA	3/4" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	45.67 -4.50 6.64 13.28 6.71	29.54
22 11 16 00-0529	EA	1" Copper Coupling..... For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	55.69 -5.43 7.94 15.87 8.08	35.26
22 11 16 00-0530	EA	1-1/4" Copper Coupling For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	62.13 -5.97 8.58 17.17 8.83	38.13
22 11 16 00-0531	EA	1-1/2" Copper Coupling For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	69.13 -6.59 9.40 18.79 9.72	41.77

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0532	EA		2" Copper Coupling.....	80.99	46.71
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.56	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.53	
			For Work In Restricted Working Space, Add	21.06	
			For Silver Solder Instead Of 95/5 Solder, Add	11.07	
22 11 16 00-0533	EA		2-1/2" Copper Coupling.....	92.86	47.21
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.19	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.64	
			For Work In Restricted Working Space, Add	21.28	
			For Silver Solder Instead Of 95/5 Solder, Add	11.74	
22 11 16 00-0534	EA		3" Copper Coupling.....	117.62	58.48
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.27	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.17	
			For Work In Restricted Working Space, Add	26.33	
			For Silver Solder Instead Of 95/5 Solder, Add	14.66	
22 11 16 00-0535	EA		4" Copper Coupling.....	190.13	82.80
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.73	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.66	
			For Work In Restricted Working Space, Add	37.32	
			For Silver Solder Instead Of 95/5 Solder, Add	21.95	
22 11 16 00-0536	EA		5" Copper Coupling.....	317.11	119.95
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-24.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	27.02	
			For Work In Restricted Working Space, Add	54.03	
			For Silver Solder Instead Of 95/5 Solder, Add	33.87	
22 11 16 00-0537	EA		6" Copper Coupling.....	488.47	174.60
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-37.53	
			For Brazed Fittings Instead Of 95/5 Solder, Add	39.31	
			For Work In Restricted Working Space, Add	78.62	
			For Silver Solder Instead Of 95/5 Solder, Add	50.63	
22 11 16 00-0538	EA		8" Copper Coupling.....	1,083.32	232.71
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-71.64	
			For Brazed Fittings Instead Of 95/5 Solder, Add	52.41	
			For Work In Restricted Working Space, Add	104.83	
			For Silver Solder Instead Of 95/5 Solder, Add	89.11	
22 11 16 00-0539 Reducing Copper Couplings (22 11 16 00-0451)					
22 11 16 00-0540	EA		3/8" Reducing Copper Coupling.....	25.13	15.87
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.44	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.56	
			For Work In Restricted Working Space, Add	7.13	
			For Silver Solder Instead Of 95/5 Solder, Add	3.63	
22 11 16 00-0541	EA		1/2" Reducing Copper Coupling.....	32.21	20.56
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.15	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.62	
			For Work In Restricted Working Space, Add	9.23	
			For Silver Solder Instead Of 95/5 Solder, Add	4.69	
22 11 16 00-0542	EA		3/4" Reducing Copper Coupling.....	42.43	26.67
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.99	
			For Work In Restricted Working Space, Add	11.99	
			For Silver Solder Instead Of 95/5 Solder, Add	6.12	
22 11 16 00-0543	EA		1" Reducing Copper Coupling.....	53.07	32.40
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.08	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.29	
			For Work In Restricted Working Space, Add	14.58	
			For Silver Solder Instead Of 95/5 Solder, Add	7.51	
22 11 16 00-0544	EA		1-1/4" Reducing Copper Coupling.....	61.32	36.70
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.82	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.26	
			For Work In Restricted Working Space, Add	16.52	
			For Silver Solder Instead Of 95/5 Solder, Add	8.57	
22 11 16 00-0545	EA		1-1/2" Reducing Copper Coupling.....	70.29	39.94
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.51	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.99	
			For Work In Restricted Working Space, Add	17.99	
			For Silver Solder Instead Of 95/5 Solder, Add	9.51	
22 11 16 00-0546	EA		2" Reducing Copper Coupling.....	82.42	44.24
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.44	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.96	
			For Work In Restricted Working Space, Add	19.93	
			For Silver Solder Instead Of 95/5 Solder, Add	10.76	
22 11 16 00-0547	EA		2-1/2" Reducing Copper Coupling.....	100.33	45.18
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.41	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.17	
			For Work In Restricted Working Space, Add	20.34	
			For Silver Solder Instead Of 95/5 Solder, Add	11.80	
22 11 16 00-0548	EA		3" Reducing Copper Coupling.....	119.58	52.85
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.95	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.91	
			For Work In Restricted Working Space, Add	23.81	
			For Silver Solder Instead Of 95/5 Solder, Add	13.92	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 11 16 00-0549	EA 4" Reducing Copper Coupling	185.92		70.70
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.60		
	For Brazed Fittings Instead Of 95/5 Solder, Add	15.91		
	For Work In Restricted Working Space, Add	31.83		
	For Silver Solder Instead Of 95/5 Solder, Add	19.91		
22 11 16 00-0550	EA 5" Reducing Copper Coupling	460.70		98.98
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-30.46		
	For Brazed Fittings Instead Of 95/5 Solder, Add	22.28		
	For Work In Restricted Working Space, Add	44.56		
	For Silver Solder Instead Of 95/5 Solder, Add	37.89		
22 11 16 00-0551	EA 6" Reducing Copper Coupling	672.93		126.18
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-43.12		
	For Brazed Fittings Instead Of 95/5 Solder, Add	28.43		
	For Work In Restricted Working Space, Add	56.85		
	For Silver Solder Instead Of 95/5 Solder, Add	52.60		
22 11 16 00-0552	EA 8" Reducing Copper Coupling	1,330.37		203.48
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-81.80		
	For Brazed Fittings Instead Of 95/5 Solder, Add	45.84		
	For Work In Restricted Working Space, Add	91.67		
	For Silver Solder Instead Of 95/5 Solder, Add	97.08		
22 11 16 00-0553 Male Copper Adapters (22 11 16 00-0451)				
22 11 16 00-0554	EA 1/4" Male Copper Adapter	37.12		16.91
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.16		
	For Brazed Fittings Instead Of 95/5 Solder, Add	3.90		
	For Work In Restricted Working Space, Add	7.81		
	For Silver Solder Instead Of 95/5 Solder, Add	4.46		
22 11 16 00-0555	EA 3/8" Male Copper Adapter	36.76		20.82
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.40		
	For Brazed Fittings Instead Of 95/5 Solder, Add	4.68		
	For Work In Restricted Working Space, Add	9.37		
	For Silver Solder Instead Of 95/5 Solder, Add	4.96		
22 11 16 00-0556	EA 1/2" Male Copper Adapter	41.28		26.03
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.02		
	For Brazed Fittings Instead Of 95/5 Solder, Add	5.86		
	For Work In Restricted Working Space, Add	11.71		
	For Silver Solder Instead Of 95/5 Solder, Add	5.97		
22 11 16 00-0557	EA 3/4" Male Copper Adapter	51.94		32.53
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.00		
	For Brazed Fittings Instead Of 95/5 Solder, Add	7.22		
	For Work In Restricted Working Space, Add	14.44		
	For Silver Solder Instead Of 95/5 Solder, Add	7.41		
22 11 16 00-0558	EA 1" Male Copper Adapter	65.60		37.73
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.08		
	For Brazed Fittings Instead Of 95/5 Solder, Add	8.39		
	For Work In Restricted Working Space, Add	16.79		
	For Silver Solder Instead Of 95/5 Solder, Add	8.88		
22 11 16 00-0559	EA 1-1/4" Male Copper Adapter	79.10		42.94
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.21		
	For Brazed Fittings Instead Of 95/5 Solder, Add	9.76		
	For Work In Restricted Working Space, Add	19.52		
	For Silver Solder Instead Of 95/5 Solder, Add	10.46		
22 11 16 00-0560	EA 1-1/2" Male Copper Adapter	90.61		49.44
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.24		
	For Brazed Fittings Instead Of 95/5 Solder, Add	11.13		
	For Work In Restricted Working Space, Add	22.25		
	For Silver Solder Instead Of 95/5 Solder, Add	11.95		
22 11 16 00-0561	EA 2" Male Copper Adapter	122.82		63.11
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.89		
	For Brazed Fittings Instead Of 95/5 Solder, Add	14.25		
	For Work In Restricted Working Space, Add	28.50		
	For Silver Solder Instead Of 95/5 Solder, Add	15.64		
22 11 16 00-0562	EA 2-1/2" Male Copper Adapter	209.79		81.97
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.61		
	For Brazed Fittings Instead Of 95/5 Solder, Add	18.35		
	For Work In Restricted Working Space, Add	36.69		
	For Silver Solder Instead Of 95/5 Solder, Add	22.72		
22 11 16 00-0563	EA 3" Male Copper Adapter	278.79		109.35
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.09		
	For Brazed Fittings Instead Of 95/5 Solder, Add	24.45		
	For Work In Restricted Working Space, Add	48.89		
	For Silver Solder Instead Of 95/5 Solder, Add	30.24		
22 11 16 00-0564	EA 4" Male Copper Adapter	415.30		153.39
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-32.27		
	For Brazed Fittings Instead Of 95/5 Solder, Add	34.51		
	For Work In Restricted Working Space, Add	69.02		
	For Silver Solder Instead Of 95/5 Solder, Add	43.77		
22 11 16 00-0565 Female Copper Adapters (22 11 16 00-0451)				
22 11 16 00-0566	EA 1/4" Female Copper Adapter	33.11		16.91
	For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.96		
	For Brazed Fittings Instead Of 95/5 Solder, Add	3.90		
	For Work In Restricted Working Space, Add	7.81		
	For Silver Solder Instead Of 95/5 Solder, Add	4.26		

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0567	EA	3/8"	Female Copper Adapter	38.64	20.82
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.49	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.68	
			For Work In Restricted Working Space, Add	9.37	
			For Silver Solder Instead Of 95/5 Solder, Add	5.06	
22 11 16 00-0568	EA	1/2"	Female Copper Adapter	42.63	26.03
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.08	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.86	
			For Work In Restricted Working Space, Add	11.71	
			For Silver Solder Instead Of 95/5 Solder, Add	6.04	
22 11 16 00-0569	EA	3/4"	Female Copper Adapter	53.04	32.53
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.06	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.22	
			For Work In Restricted Working Space, Add	14.44	
			For Silver Solder Instead Of 95/5 Solder, Add	7.47	
22 11 16 00-0570	EA	1"	Female Copper Adapter	67.16	37.73
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.16	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.39	
			For Work In Restricted Working Space, Add	16.79	
			For Silver Solder Instead Of 95/5 Solder, Add	8.95	
22 11 16 00-0571	EA	1-1/4"	Female Copper Adapter	81.49	42.94
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.33	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.76	
			For Work In Restricted Working Space, Add	19.52	
			For Silver Solder Instead Of 95/5 Solder, Add	10.58	
22 11 16 00-0572	EA	1-1/2"	Female Copper Adapter	99.90	49.44
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.70	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.13	
			For Work In Restricted Working Space, Add	22.25	
			For Silver Solder Instead Of 95/5 Solder, Add	12.41	
22 11 16 00-0573	EA	2"	Female Copper Adapter	129.90	63.11
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.24	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.25	
			For Work In Restricted Working Space, Add	28.50	
			For Silver Solder Instead Of 95/5 Solder, Add	15.99	
22 11 16 00-0574	EA	2-1/2"	Female Copper Adapter	236.08	75.50
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.44	
			For Brazed Fittings Instead Of 95/5 Solder, Add	16.90	
			For Work In Restricted Working Space, Add	33.79	
			For Silver Solder Instead Of 95/5 Solder, Add	23.07	
22 11 16 00-0575	EA	3"	Female Copper Adapter	370.91	109.35
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.69	
			For Brazed Fittings Instead Of 95/5 Solder, Add	24.45	
			For Work In Restricted Working Space, Add	48.89	
			For Silver Solder Instead Of 95/5 Solder, Add	34.84	
22 11 16 00-0576			Wrot Copper, Solder Union (22 11 16 00-0451)		
22 11 16 00-0577	EA	1/4"	Wrot Copper, Solder Union	46.32	20.82
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.88	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.68	
			For Work In Restricted Working Space, Add	9.37	
			For Silver Solder Instead Of 95/5 Solder, Add	5.44	
22 11 16 00-0578	EA	3/8"	Wrot Copper, Solder Union	53.28	25.11
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.55	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.66	
			For Work In Restricted Working Space, Add	11.32	
			For Silver Solder Instead Of 95/5 Solder, Add	6.44	
22 11 16 00-0579	EA	1/2"	Wrot Copper, Solder Union	56.45	31.23
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.16	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.03	
			For Work In Restricted Working Space, Add	14.05	
			For Silver Solder Instead Of 95/5 Solder, Add	7.51	
22 11 16 00-0580	EA	3/4"	Wrot Copper, Solder Union	65.17	35.66
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.93	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.00	
			For Work In Restricted Working Space, Add	16.01	
			For Silver Solder Instead Of 95/5 Solder, Add	8.59	
22 11 16 00-0581	EA	1"	Wrot Copper, Solder Union	84.07	42.55
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.39	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.56	
			For Work In Restricted Working Space, Add	19.13	
			For Silver Solder Instead Of 95/5 Solder, Add	10.58	
22 11 16 00-0582	EA	1-1/4"	Wrot Copper, Solder Union	99.68	46.84
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.50	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.54	
			For Work In Restricted Working Space, Add	21.08	
			For Silver Solder Instead Of 95/5 Solder, Add	12.01	
22 11 16 00-0583	EA	1-1/2"	Wrot Copper, Solder Union	119.55	52.05
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.88	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.71	
			For Work In Restricted Working Space, Add	23.42	
			For Silver Solder Instead Of 95/5 Solder, Add	13.78	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
22 11 16 00-0584	EA 2" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		164.40 -12.90 14.05 28.11 17.59	62.45
22 11 16 00-0585	EA 2-1/2" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		295.88 -19.95 15.46 30.92 25.10	68.78
22 11 16 00-0586	EA 3" Wrot Copper, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		645.17 -39.57 21.93 43.86 46.88	97.54
22 11 16 00-0587 Cast Bronze, Solder Union (22 11 16 00-0451)				
22 11 16 00-0588	EA 1/4" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		51.89 -4.16 4.68 9.37 5.72	20.82
22 11 16 00-0589	EA 3/8" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		58.53 -4.81 5.66 11.32 6.70	25.11
22 11 16 00-0590	EA 1/2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		57.92 -5.24 7.03 14.05 7.58	31.23
22 11 16 00-0591	EA 3/4" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		67.24 -6.03 8.00 16.01 8.70	35.66
22 11 16 00-0592	EA 1" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		87.65 -7.57 9.56 19.13 10.76	42.55
22 11 16 00-0593	EA 1-1/4" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		109.49 -8.99 10.54 21.08 12.50	46.84
22 11 16 00-0594	EA 1-1/2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		129.78 -10.39 11.71 23.42 14.30	52.05
22 11 16 00-0595	EA 2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		181.82 -13.78 14.05 28.11 18.46	62.45
22 11 16 00-0596	EA 2-1/2" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		295.87 -19.95 15.46 30.92 25.10	68.78
22 11 16 00-0597	EA 3" Cast Bronze, Solder Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		645.17 -39.57 21.93 43.86 46.88	97.54
22 11 16 00-0598 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0451)				
22 11 16 00-0599	EA 1/4" Cast Bronze, Solder X Female Threaded Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		59.41 -4.53 4.68 9.37 6.09	20.82
22 11 16 00-0600	EA 3/8" Cast Bronze, Solder X Female Threaded Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		66.89 -5.23 5.66 11.32 7.12	25.11
22 11 16 00-0601	EA 1/2" Cast Bronze, Solder X Female Threaded Union For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add		70.00 -5.84 7.03 14.05 8.18	31.23

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0602	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	84.92	35.66
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.00	
			For Work In Restricted Working Space, Add	16.01	
			For Silver Solder Instead Of 95/5 Solder, Add	9.58	
22 11 16 00-0603	EA		1" Cast Bronze, Solder X Female Threaded Union.....	129.41	42.55
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.66	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.56	
			For Work In Restricted Working Space, Add	19.13	
			For Silver Solder Instead Of 95/5 Solder, Add	12.85	
22 11 16 00-0604	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union	192.62	46.84
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.14	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.54	
			For Work In Restricted Working Space, Add	21.08	
			For Silver Solder Instead Of 95/5 Solder, Add	16.66	
22 11 16 00-0605	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union	233.09	52.05
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.56	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.71	
			For Work In Restricted Working Space, Add	23.42	
			For Silver Solder Instead Of 95/5 Solder, Add	19.46	
22 11 16 00-0606	EA		2" Cast Bronze, Solder X Female Threaded Union.....	356.09	62.45
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.49	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.05	
			For Work In Restricted Working Space, Add	28.11	
			For Silver Solder Instead Of 95/5 Solder, Add	27.17	
22 11 16 00-0607	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union	600.48	68.78
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-35.18	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.46	
			For Work In Restricted Working Space, Add	30.92	
			For Silver Solder Instead Of 95/5 Solder, Add	40.33	
22 11 16 00-0608 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0451)					
22 11 16 00-0609	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	52.69	20.82
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.20	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.68	
			For Work In Restricted Working Space, Add	9.37	
			For Silver Solder Instead Of 95/5 Solder, Add	5.76	
22 11 16 00-0610	EA		3/8" Cast Bronze, Solder X Male Threaded Union.....	62.78	25.11
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.03	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.66	
			For Work In Restricted Working Space, Add	11.32	
			For Silver Solder Instead Of 95/5 Solder, Add	6.91	
22 11 16 00-0611	EA		1/2" Cast Bronze, Solder X Male Threaded Union.....	65.12	31.23
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.60	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.03	
			For Work In Restricted Working Space, Add	14.05	
			For Silver Solder Instead Of 95/5 Solder, Add	7.94	
22 11 16 00-0612	EA		3/4" Cast Bronze, Solder X Male Threaded Union.....	80.78	35.66
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.71	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.00	
			For Work In Restricted Working Space, Add	16.01	
			For Silver Solder Instead Of 95/5 Solder, Add	9.37	
22 11 16 00-0613	EA		1" Cast Bronze, Solder X Male Threaded Union.....	131.30	42.55
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.75	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.56	
			For Work In Restricted Working Space, Add	19.13	
			For Silver Solder Instead Of 95/5 Solder, Add	12.94	
22 11 16 00-0614	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union.....	154.05	46.84
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.22	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.54	
			For Work In Restricted Working Space, Add	21.08	
			For Silver Solder Instead Of 95/5 Solder, Add	14.73	
22 11 16 00-0615	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	166.08	52.05
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.21	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.71	
			For Work In Restricted Working Space, Add	23.42	
			For Silver Solder Instead Of 95/5 Solder, Add	16.11	
22 11 16 00-0616	EA		2" Cast Bronze, Solder X Male Threaded Union.....	228.88	62.45
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.13	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.05	
			For Work In Restricted Working Space, Add	28.11	
			For Silver Solder Instead Of 95/5 Solder, Add	20.81	
22 11 16 00-0617	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	499.24	68.78
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-30.12	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.46	
			For Work In Restricted Working Space, Add	30.92	
			For Silver Solder Instead Of 95/5 Solder, Add	35.27	
22 11 16 00-0618 Copper Caps (22 11 16 00-0451)					
22 11 16 00-0619	EA		1/4" Copper Cap	9.55	5.72
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	1.29	
			For Work In Restricted Working Space, Add	2.58	
			For Silver Solder Instead Of 95/5 Solder, Add	1.34	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0620	EA	3/8" Copper Cap	.....	11.82	6.76
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-1.11	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	1.55	
		For Work In Restricted Working Space, Add	.....	3.09	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	1.62	
22 11 16 00-0621	EA	1/2" Copper Cap	.....	14.95	9.37
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-1.46	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	2.13	
		For Work In Restricted Working Space, Add	.....	4.25	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	2.16	
22 11 16 00-0622	EA	3/4" Copper Cap	.....	19.06	11.58
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-1.83	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	2.64	
		For Work In Restricted Working Space, Add	.....	5.28	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	2.71	
22 11 16 00-0623	EA	1" Copper Cap	.....	24.48	13.93
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-2.28	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	3.16	
		For Work In Restricted Working Space, Add	.....	6.31	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	3.33	
22 11 16 00-0624	EA	1-1/4" Copper Cap	.....	27.36	14.97
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-2.51	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	3.41	
		For Work In Restricted Working Space, Add	.....	6.83	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	3.64	
22 11 16 00-0625	EA	1-1/2" Copper Cap	.....	31.60	16.39
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-2.83	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	3.74	
		For Work In Restricted Working Space, Add	.....	7.47	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	4.07	
22 11 16 00-0626	EA	2" Copper Cap	.....	38.07	17.02
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-3.19	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	3.86	
		For Work In Restricted Working Space, Add	.....	7.71	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	4.47	
22 11 16 00-0627	EA	2-1/2" Copper Cap	.....	66.84	19.89
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-4.85	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	4.53	
		For Work In Restricted Working Space, Add	.....	9.06	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	6.36	
22 11 16 00-0628	EA	3" Copper Cap	.....	91.12	25.52
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-6.49	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	5.80	
		For Work In Restricted Working Space, Add	.....	11.60	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	8.42	
22 11 16 00-0629	EA	4" Copper Cap	.....	157.51	38.59
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-10.80	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	8.77	
		For Work In Restricted Working Space, Add	.....	17.54	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	13.72	
22 11 16 00-0630	EA	5" Cast Bronze Cap	.....	786.19	59.44
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-43.81	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	13.51	
		For Work In Restricted Working Space, Add	.....	27.02	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	48.31	
22 11 16 00-0631	EA	6" Cast Bronze Cap	.....	1,518.00	86.52
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-82.45	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	19.66	
		For Work In Restricted Working Space, Add	.....	39.31	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	89.00	
22 11 16 00-0632	EA	8" Cast Bronze Cap	.....	1,934.98	115.28
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-105.49	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	26.21	
		For Work In Restricted Working Space, Add	.....	52.42	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	114.22	
22 11 16 00-0633		Copper Crosses (22 11 16 00-0451)			
22 11 16 00-0634	EA	1/2" Copper Cross	.....	91.42	52.73
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-8.53	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	11.86	
		For Work In Restricted Working Space, Add	.....	23.73	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	12.48	
22 11 16 00-0635	EA	3/4" Copper Cross	.....	122.22	65.55
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-11.02	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	14.74	
		For Work In Restricted Working Space, Add	.....	29.48	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	15.94	
22 11 16 00-0636	EA	1" Copper Cross	.....	158.15	78.25
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	.....	-13.78	
		For Brazed Fittings Instead Of 95/5 Solder, Add	.....	17.62	
		For Work In Restricted Working Space, Add	.....	35.23	
		For Silver Solder Instead Of 95/5 Solder, Add	.....	19.65	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0637	EA		1-1/4" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	185.53 -15.63 19.05 38.11 21.98	84.72
22 11 16 00-0638	EA		1-1/2" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	222.40 -18.07 20.85 41.70 25.02	92.62
22 11 16 00-0639	EA		2" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	313.32 -23.46 23.37 46.73 31.24	103.90
22 11 16 00-0640	EA		2-1/2" Copper Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	535.70 -35.41 25.88 51.77 44.04	115.03
22 11 16 00-0641 Cast Bronze Crosses (22 11 16 00-0451)					
22 11 16 00-0642	EA		3/8" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	73.96 -6.57 8.63 17.26 9.45	38.34
22 11 16 00-0643	EA		1/2" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	93.88 -8.65 11.86 23.73 12.60	52.73
22 11 16 00-0644	EA		3/4" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	127.01 -11.26 14.74 29.48 16.18	65.55
22 11 16 00-0645	EA		1" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	166.28 -14.19 17.62 35.23 20.06	78.25
22 11 16 00-0646	EA		1-1/4" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	197.23 -16.21 19.05 38.11 22.56	84.72
22 11 16 00-0647	EA		1-1/2" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	239.07 -18.90 20.85 41.70 25.85	92.62
22 11 16 00-0648	EA		2" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	342.65 -24.92 23.37 46.73 32.71	103.90
22 11 16 00-0649	EA		2-1/2" Cast Bronze Cross For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add For Silver Solder Instead Of 95/5 Solder, Add	608.33 -39.04 25.88 51.77 47.67	115.03
22 11 16 00-0650 Flexible Corrugated Copper Supply Line (22 11 16 00-0451)					
22 11 16 00-0651	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	89.13	35.66
22 11 16 00-0652	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	93.44	35.66
22 11 16 00-0653	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	81.39	35.66
22 11 16 00-0654	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	86.26	35.66
22 11 16 00-0655	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	90.57	35.66
22 11 16 00-0656	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	93.44	35.66
22 11 16 00-0657 Crimped Copper Fittings (22 11 16 00-0383) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.					
22 11 16 00-0658 Crimped Copper 90 Degree Elbows (22 11 16 00-0657)					
22 11 16 00-0659	EA		1/2" Crimped Copper 90 Degree Elbow For Work In Restricted Working Space, Add	26.43 7.03	15.61
22 11 16 00-0660	EA		3/4" Crimped Copper 90 Degree Elbow For Work In Restricted Working Space, Add	31.78 8.00	17.82
22 11 16 00-0661	EA		1" Crimped Copper 90 Degree Elbow For Work In Restricted Working Space, Add	42.12 9.56	21.21



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

22

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 11 16 00-0662	EA 1-1/4" Crimped Copper 90 Degree Elbow.....	55.80		23.42
	For Work In Restricted Working Space, Add	10.54		
22 11 16 00-0663	EA 1-1/2" Crimped Copper 90 Degree Elbow.....	78.17		26.03
	For Work In Restricted Working Space, Add	11.71		
22 11 16 00-0664	EA 2" Crimped Copper 90 Degree Elbow.....	101.23		31.23
	For Work In Restricted Working Space, Add	14.05		
22 11 16 00-0665	EA 2-1/2" Crimped Copper 90 Degree Elbow.....	212.63		36.43
	For Work In Restricted Working Space, Add	16.40		
22 11 16 00-0666	EA 3" Crimped Copper 90 Degree Elbow.....	263.80		43.33
	For Work In Restricted Working Space, Add	19.52		
22 11 16 00-0667	EA 4" Crimped Copper 90 Degree Elbow.....	331.77		57.25
	For Work In Restricted Working Space, Add	25.76		
22 11 16 00-0668 Crimped Copper 45 Degree Elbows (22 11 16 00-0657)				
22 11 16 00-0669	EA 1/2" Crimped Copper 45 Degree Elbow.....	26.93		15.61
	For Work In Restricted Working Space, Add	7.03		
22 11 16 00-0670	EA 3/4" Crimped Copper 45 Degree Elbow.....	30.98		17.82
	For Work In Restricted Working Space, Add	8.00		
22 11 16 00-0671	EA 1" Crimped Copper 45 Degree Elbow.....	45.73		21.21
	For Work In Restricted Working Space, Add	9.56		
22 11 16 00-0672	EA 1-1/4" Crimped Copper 45 Degree Elbow.....	55.00		23.42
	For Work In Restricted Working Space, Add	10.54		
22 11 16 00-0673	EA 1-1/2" Crimped Copper 45 Degree Elbow.....	71.25		26.03
	For Work In Restricted Working Space, Add	11.71		
22 11 16 00-0674	EA 2" Crimped Copper 45 Degree Elbow.....	91.90		31.23
	For Work In Restricted Working Space, Add	14.05		
22 11 16 00-0675	EA 2-1/2" Crimped Copper 45 Degree Elbow.....	159.01		36.43
	For Work In Restricted Working Space, Add	16.40		
22 11 16 00-0676	EA 3" Crimped Copper 45 Degree Elbow.....	214.14		43.33
	For Work In Restricted Working Space, Add	19.52		
22 11 16 00-0677	EA 4" Crimped Copper 45 Degree Elbow.....	292.93		57.25
	For Work In Restricted Working Space, Add	25.76		
22 11 16 00-0678 Crimped Copper Straight Tees (22 11 16 00-0657)				
22 11 16 00-0679	EA 1/2" Crimped Copper Straight Tee.....	39.74		23.42
	For Work In Restricted Working Space, Add	10.54		
22 11 16 00-0680	EA 3/4" Crimped Copper Straight Tee.....	54.32		30.84
	For Work In Restricted Working Space, Add	13.86		
22 11 16 00-0681	EA 1" Crimped Copper Straight Tee.....	66.05		34.22
	For Work In Restricted Working Space, Add	15.42		
22 11 16 00-0682	EA 1-1/4" Crimped Copper Straight Tee.....	77.48		35.13
	For Work In Restricted Working Space, Add	15.81		
22 11 16 00-0683	EA 1-1/2" Crimped Copper Straight Tee.....	108.02		39.94
	For Work In Restricted Working Space, Add	17.96		
22 11 16 00-0684	EA 2" Crimped Copper Straight Tee.....	129.76		46.84
	For Work In Restricted Working Space, Add	21.08		
22 11 16 00-0685	EA 2-1/2" Crimped Copper Straight Tee.....	277.15		54.65
	For Work In Restricted Working Space, Add	24.59		
22 11 16 00-0686	EA 3" Crimped Copper Straight Tee.....	341.55		65.05
	For Work In Restricted Working Space, Add	29.27		
22 11 16 00-0687	EA 4" Crimped Copper Straight Tee.....	471.15		85.87
	For Work In Restricted Working Space, Add	38.65		
22 11 16 00-0688 Crimped Copper Reducing Tees (22 11 16 00-0657)				
22 11 16 00-0689	EA 3/4" Crimped Copper Reducing Tee.....	45.98		22.25
	For Work In Restricted Working Space, Add	10.03		
22 11 16 00-0690	EA 1" Crimped Copper Reducing Tee.....	66.13		29.28
	For Work In Restricted Working Space, Add	13.16		
22 11 16 00-0691	EA 1-1/4" Crimped Copper Reducing Tee.....	71.47		32.53
	For Work In Restricted Working Space, Add	14.64		
22 11 16 00-0692	EA 1-1/2" Crimped Copper Reducing Tee.....	92.85		33.44
	For Work In Restricted Working Space, Add	15.03		
22 11 16 00-0693	EA 2" Crimped Copper Reducing Tee.....	110.95		37.87
	For Work In Restricted Working Space, Add	17.06		
22 11 16 00-0694	EA 2-1/2" Crimped Copper Reducing Tee.....	294.33		42.94
	For Work In Restricted Working Space, Add	19.52		
22 11 16 00-0695	EA 3" Crimped Copper Reducing Tee.....	358.75		52.05
	For Work In Restricted Working Space, Add	23.42		
22 11 16 00-0696	EA 4" Crimped Copper Reducing Tee.....	423.43		69.35
	For Work In Restricted Working Space, Add	31.23		
22 11 16 00-0697 Crimped Copper Couplings (22 11 16 00-0657)				
22 11 16 00-0698	EA 1/2" Crimped Copper Coupling.....	26.13		15.61
	For Work In Restricted Working Space, Add	7.03		
22 11 16 00-0699	EA 3/4" Crimped Copper Coupling.....	30.79		17.82
	For Work In Restricted Working Space, Add	8.00		
22 11 16 00-0700	EA 1" Crimped Copper Coupling.....	40.20		21.21
	For Work In Restricted Working Space, Add	9.56		

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 11 16 00-0701	EA	1-1/4" Crimped Copper Coupling	45.47		23.42
		<i>For Work In Restricted Working Space, Add</i>	10.54		
22 11 16 00-0702	EA	1-1/2" Crimped Copper Coupling	58.30		26.03
		<i>For Work In Restricted Working Space, Add</i>	11.71		
22 11 16 00-0703	EA	2" Crimped Copper Coupling	71.43		31.23
		<i>For Work In Restricted Working Space, Add</i>	14.05		
22 11 16 00-0704	EA	2-1/2" Crimped Copper Coupling	133.33		36.43
		<i>For Work In Restricted Working Space, Add</i>	16.40		
22 11 16 00-0705	EA	3" Crimped Copper Coupling	165.25		43.33
		<i>For Work In Restricted Working Space, Add</i>	19.52		
22 11 16 00-0706	EA	4" Crimped Copper Coupling	225.01		57.25
		<i>For Work In Restricted Working Space, Add</i>	25.76		
22 11 16 00-0707 Crimped Copper Reducing Couplings (22 11 16 00-0657)					
22 11 16 00-0708	EA	3/4" Crimped Copper Reducing Coupling	34.60		14.84
		<i>For Work In Restricted Working Space, Add</i>	6.68		
22 11 16 00-0709	EA	1" Crimped Copper Reducing Coupling	39.52		16.91
		<i>For Work In Restricted Working Space, Add</i>	7.61		
22 11 16 00-0710	EA	1-1/4" Crimped Copper Reducing Coupling	50.90		20.16
		<i>For Work In Restricted Working Space, Add</i>	9.10		
22 11 16 00-0711	EA	1-1/2" Crimped Copper Reducing Coupling	63.74		22.25
		<i>For Work In Restricted Working Space, Add</i>	10.03		
22 11 16 00-0712	EA	2" Crimped Copper Reducing Coupling	71.19		24.73
		<i>For Work In Restricted Working Space, Add</i>	11.12		
22 11 16 00-0713	EA	2-1/2" Crimped Copper FTG x C Reducing Coupling	137.19		29.54
		<i>For Work In Restricted Working Space, Add</i>	13.27		
22 11 16 00-0714	EA	3" Crimped Copper FTG x C Reducing Coupling	170.60		34.74
		<i>For Work In Restricted Working Space, Add</i>	15.62		
22 11 16 00-0715	EA	4" Crimped Copper FTG x C Reducing Coupling	221.91		45.93
		<i>For Work In Restricted Working Space, Add</i>	20.69		
22 11 16 00-0716 Crimped Copper Male Adapters (22 11 16 00-0657)					
22 11 16 00-0717	EA	1/2" Crimped Copper Male Adapter	26.74		15.61
		<i>For Work In Restricted Working Space, Add</i>	7.03		
22 11 16 00-0718	EA	3/4" Crimped Copper Male Adapter	32.69		17.82
		<i>For Work In Restricted Working Space, Add</i>	8.00		
22 11 16 00-0719	EA	1" Crimped Copper Male Adapter	42.91		21.21
		<i>For Work In Restricted Working Space, Add</i>	9.56		
22 11 16 00-0720	EA	1-1/4" Crimped Copper Male Adapter	59.31		23.42
		<i>For Work In Restricted Working Space, Add</i>	10.54		
22 11 16 00-0721	EA	1-1/2" Crimped Copper Male Adapter	72.96		26.03
		<i>For Work In Restricted Working Space, Add</i>	11.71		
22 11 16 00-0722	EA	2" Crimped Copper Male Adapter	112.16		31.23
		<i>For Work In Restricted Working Space, Add</i>	14.05		
22 11 16 00-0723	EA	2-1/2" Crimped Copper Male Adapter	212.63		36.43
		<i>For Work In Restricted Working Space, Add</i>	16.40		
22 11 16 00-0724	EA	3" Crimped Copper Male Adapter	263.80		43.33
		<i>For Work In Restricted Working Space, Add</i>	19.52		
22 11 16 00-0725	EA	4" Crimped Copper Male Adapter	315.93		57.25
		<i>For Work In Restricted Working Space, Add</i>	25.76		
22 11 16 00-0726 Crimped Copper Female Adapters (22 11 16 00-0657)					
22 11 16 00-0727	EA	1/2" Crimped Copper Female Adapter	27.43		15.61
		<i>For Work In Restricted Working Space, Add</i>	7.03		
22 11 16 00-0728	EA	3/4" Crimped Copper Female Adapter	33.20		17.82
		<i>For Work In Restricted Working Space, Add</i>	8.00		
22 11 16 00-0729	EA	1" Crimped Copper Female Adapter	43.92		21.21
		<i>For Work In Restricted Working Space, Add</i>	9.56		
22 11 16 00-0730	EA	1-1/4" Crimped Copper Female Adapter	62.32		23.42
		<i>For Work In Restricted Working Space, Add</i>	10.54		
22 11 16 00-0731	EA	1-1/2" Crimped Copper Female Adapter	78.58		26.03
		<i>For Work In Restricted Working Space, Add</i>	11.71		
22 11 16 00-0732	EA	2" Crimped Copper Female Adapter	113.97		31.23
		<i>For Work In Restricted Working Space, Add</i>	14.05		
22 11 16 00-0733 Crimped Copper Caps (22 11 16 00-0657)					
22 11 16 00-0734	EA	1/2" Crimped Copper Cap	17.53		7.81
		<i>For Work In Restricted Working Space, Add</i>	3.51		
22 11 16 00-0735	EA	3/4" Crimped Copper Cap	23.49		9.10
		<i>For Work In Restricted Working Space, Add</i>	4.10		
22 11 16 00-0736	EA	1" Crimped Copper Cap	30.76		10.41
		<i>For Work In Restricted Working Space, Add</i>	4.68		
22 11 16 00-0737	EA	1-1/4" Crimped Copper Cap	34.73		11.71
		<i>For Work In Restricted Working Space, Add</i>	5.27		
22 11 16 00-0738	EA	1-1/2" Crimped Copper Cap	46.75		13.40
		<i>For Work In Restricted Working Space, Add</i>	6.05		
22 11 16 00-0739	EA	2" Crimped Copper Cap	55.72		15.61
		<i>For Work In Restricted Working Space, Add</i>	7.03		



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 11 16 00-0740	EA 2-1/2" Crimped Copper Cap	130.62		18.22	
	For Work In Restricted Working Space, Add	8.20			
22 11 16 00-0741	EA 3" Crimped Copper Cap	163.26		21.73	
	For Work In Restricted Working Space, Add	9.76			
22 11 16 00-0742	EA 4" Crimped Copper Cap	217.15		28.62	
	For Work In Restricted Working Space, Add	12.88			
22 11 16 00-0743 C x F NPT Crimped Bronze Unions (22 11 16 00-0657)					
22 11 16 00-0744	EA 1/2" C x F NPT Crimped Bronze Union	48.94		21.21	
	For Work In Restricted Working Space, Add	9.56			
22 11 16 00-0745	EA 3/4" C x F NPT Crimped Bronze Union	61.04		26.15	
	For Work In Restricted Working Space, Add	11.75			
22 11 16 00-0746	EA 1" C x F NPT Crimped Bronze Union	83.30		31.36	
	For Work In Restricted Working Space, Add	14.09			
22 11 16 00-0747	EA 1-1/4" C x F NPT Crimped Bronze Union	100.35		36.17	
	For Work In Restricted Working Space, Add	16.32			
22 11 16 00-0748	EA 1-1/2" C x F NPT Crimped Bronze Union	125.33		35.39	
	For Work In Restricted Working Space, Add	15.92			
22 11 16 00-0749	EA 2" C x F NPT Crimped Bronze Union	172.49		51.27	
	For Work In Restricted Working Space, Add	23.03			
22 11 16 00-0750 C x C Crimped Bronze Unions (22 11 16 00-0657)					
22 11 16 00-0751	EA 1/2" C x C Bronze Crimped Union	44.69		15.61	
	For Work In Restricted Working Space, Add	7.03			
22 11 16 00-0752	EA 3/4" C x C Bronze Crimped Union	54.56		17.82	
	For Work In Restricted Working Space, Add	8.00			
22 11 16 00-0753	EA 1" C x C Bronze Crimped Union	76.43		21.21	
	For Work In Restricted Working Space, Add	9.56			
22 11 16 00-0754	EA 1-1/4" C x C Bronze Crimped Union	98.74		23.42	
	For Work In Restricted Working Space, Add	10.54			
22 11 16 00-0755	EA 1-1/2" C x C Bronze Crimped Union	125.43		26.03	
	For Work In Restricted Working Space, Add	11.71			
22 11 16 00-0756	EA 2" C x C Bronze Crimped Union	187.92		31.23	
	For Work In Restricted Working Space, Add	14.05			
22 11 16 00-0757 C x Flange Crimped Bronze Flange (22 11 16 00-0657)					
22 11 16 00-0758	EA 2-1/2" C x Flange Crimped Bronze Flange	356.72		36.43	
	For Work In Restricted Working Space, Add	16.40			
22 11 16 00-0759	EA 3" C x Flange Crimped Bronze Flange	390.18		43.33	
	For Work In Restricted Working Space, Add	19.52			
22 11 16 00-0760	EA 4" C x Flange Crimped Bronze Flange	449.84		57.25	
	For Work In Restricted Working Space, Add	25.76			
22 11 16 00-0761 Field Installed FKM Seals (22 11 16 00-0657)					
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.					
22 11 16 00-0762	EA 1/2" Field Installed FKM Seal	7.55			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	1.76			
22 11 16 00-0763	EA 3/4" Field Installed FKM Seal	9.44			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	2.05			
22 11 16 00-0764	EA 1" Field Installed FKM Seal	10.82			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	2.34			
22 11 16 00-0765	EA 1-1/4" Field Installed FKM Seal	12.40			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	2.63			
22 11 16 00-0766	EA 1-1/2" Field Installed FKM Seal	16.91			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	3.02			
22 11 16 00-0767	EA 2" Field Installed FKM Seal	18.93			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	3.51			
22 11 16 00-0768	EA 2-1/2" Field Installed FKM Seal	27.41			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	4.10			
22 11 16 00-0769	EA 3" Field Installed FKM Seal	31.62			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	4.88			
22 11 16 00-0770	EA 4" Field Installed FKM Seal	42.94			
	Note: To be used in conjunction with fittings.				
	For Work In Restricted Working Space, Add	6.44			
22 11 16 00-0771 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0383)					
22 11 16 00-0772	EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe	13.01			
22 11 16 00-0773	EA 3/4", Cut And Prepare Existing In Place Copper Pipe	14.05			
22 11 16 00-0774	EA 1", Cut And Prepare Existing In Place Copper Pipe	15.80			

22	Plumbing
22 10	Plumbing Piping
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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-0775	EA	1-1/4", Cut And Prepare Existing In Place Copper Pipe	16.59	
22 11 16 00-0776	EA	1-1/2", Cut And Prepare Existing In Place Copper Pipe	17.56	
22 11 16 00-0777	EA	2", Cut And Prepare Existing In Place Copper Pipe.....	19.33	
22 11 16 00-0778	EA	2-1/2", Cut And Prepare Existing In Place Copper Pipe	20.82	
22 11 16 00-0779	EA	3", Cut And Prepare Existing In Place Copper Pipe.....	24.59	
22 11 16 00-0780	EA	4", Cut And Prepare Existing In Place Copper Pipe.....	33.18	
22 11 16 00-0781	EA	6", Cut And Prepare Existing In Place Copper Pipe.....	47.41	
22 11 16 00-0782	EA	8", Cut And Prepare Existing In Place Copper Pipe.....	63.24	

22 11 16 00-0783 Sweat Brass Companion Flanges (22 11 16 00-0383)

Note: Excludes bolt and gasket sets

22 11 16 00-0784	EA	1" Sweat Brass Companion Flange	63.98	20.02
22 11 16 00-0785	EA	1-1/4" Sweat Brass Companion Flange	69.89	22.05
22 11 16 00-0786	EA	1-1/2" Sweat Brass Companion Flange	97.53	23.96
22 11 16 00-0787	EA	2" Sweat Brass Companion Flange	128.74	26.60
22 11 16 00-0788	EA	2-1/2" Sweat Brass Companion Flange	160.91	31.99
22 11 16 00-0789	EA	3" Sweat Brass Companion Flange	179.84	41.94
22 11 16 00-0790	EA	4" Sweat Brass Companion Flange	238.05	49.97
22 11 16 00-0791	EA	5" Sweat Brass Companion Flange	445.78	58.55
22 11 16 00-0792	EA	6" Sweat Brass Companion Flange	523.26	85.07
22 11 16 00-0793	EA	8" Copper Companion Flange.....	1,166.50	121.34

22 11 16 00-0794 Brass Compression Fittings (22 11 16 00-0383)

22 11 16 00-0795 Brass Compression Unions (22 11 16 00-0794)

22 11 16 00-0796	EA	1/4" Brass Compression Union	22.15	14.05
22 11 16 00-0797	EA	3/8" Brass Compression Union	22.45	14.05
22 11 16 00-0798	EA	1/2" Brass Compression Union	23.36	14.05
22 11 16 00-0799	EA	5/8" Brass Compression Union	23.79	14.05
22 11 16 00-0800	EA	3/4" Brass Compression Union	32.95	14.05
22 11 16 00-0801	EA	3/8" x 1/4" Brass Compression Union	22.66	14.05
22 11 16 00-0802	EA	1/2" x 3/8" Brass Compression Union	23.43	14.05
22 11 16 00-0803	EA	5/8" x 3/8" Brass Compression Union	23.97	14.05
22 11 16 00-0804	EA	5/8" x 1/2" Brass Compression Union	24.83	14.05

22 11 16 00-0805 Brass Compression Union Elbows (22 11 16 00-0794)

22 11 16 00-0806	EA	1/4" Brass Compression Union Elbow	23.36	14.05
22 11 16 00-0807	EA	3/8" Brass Compression Union Elbow	23.85	14.05
22 11 16 00-0808	EA	1/2" Brass Compression Union Elbow	24.93	14.05
22 11 16 00-0809	EA	5/8" Brass Compression Union Elbow	26.60	14.05
22 11 16 00-0810	EA	3/4" Brass Compression Union Elbow	33.13	14.05
22 11 16 00-0811	EA	3/8" x 1/4" Brass Compression Union Elbow	23.85	14.05
22 11 16 00-0812	EA	1/2" x 3/8" Brass Compression Union Elbow	24.93	14.05
22 11 16 00-0813	EA	5/8" x 3/8" Brass Compression Union Elbow	25.23	14.05
22 11 16 00-0814	EA	5/8" x 1/2" Brass Compression Union Elbow	30.13	14.05

22 11 16 00-0815 Brass Compression Union Tees (22 11 16 00-0794)

22 11 16 00-0816	EA	1/4" Brass Compression Union Tee.....	23.73	14.05
22 11 16 00-0817	EA	3/8" Brass Compression Union Tee.....	24.75	14.05
22 11 16 00-0818	EA	1/2" Brass Compression Union Tee.....	25.83	14.05
22 11 16 00-0819	EA	5/8" Brass Compression Union Tee.....	29.24	14.05
22 11 16 00-0820	EA	3/4" Brass Compression Union Tee.....	41.02	14.05
22 11 16 00-0821	EA	3/8" x 3/8" x 1/4" Brass Compression Union Tee	25.47	14.05
22 11 16 00-0822	EA	1/2" x 1/2" x 3/8" Brass Compression Union Tee	31.00	14.05
22 11 16 00-0823	EA	5/8" x 5/8" x 3/8" Brass Compression Union Tee	30.47	14.05
22 11 16 00-0824	EA	5/8" x 5/8" x 1/2" Brass Compression Union Tee	31.09	14.05

22 11 16 00-0825 Brass Compression Male Connectors (22 11 16 00-0794)

22 11 16 00-0826	EA	1/4" Brass Compression Male Connector	21.94	14.05
22 11 16 00-0827	EA	3/8" Brass Compression Male Connector	22.33	14.05
22 11 16 00-0828	EA	1/2" Brass Compression Male Connector	23.01	14.05
22 11 16 00-0829	EA	5/8" Brass Compression Male Connector	24.03	14.05
22 11 16 00-0830	EA	3/4" Brass Compression Male Connector	29.38	13.93

22 11 16 00-0831 Brass Compression Female Connectors (22 11 16 00-0794)

22 11 16 00-0832	EA	1/4" Brass Compression Female Connector	22.37	14.05
22 11 16 00-0833	EA	3/8" Brass Compression Female Connector	22.88	14.05
22 11 16 00-0834	EA	1/2" Brass Compression Female Connector	23.75	14.05
22 11 16 00-0835	EA	5/8" Brass Compression Female Connector	24.30	14.05
22 11 16 00-0836	EA	3/4" Brass Compression Female Connector	37.71	13.80

22 11 16 00-0837 Dielectric Fittings (22 11 16 00-0383)

22 11 16 00-0838 Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0837)



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
22 11 16 00-0839	EA	1/2" Copper x Female Iron Pipe Thread Dielectric Union	54.48	31.23
22 11 16 00-0840	EA	3/4" Copper x Female Iron Pipe Thread Dielectric Union	60.99	35.66
22 11 16 00-0841	EA	1" Copper x Female Iron Pipe Thread Dielectric Union	72.01	39.18
22 11 16 00-0842	EA	1-1/4" Copper x Female Iron Pipe Thread Dielectric Union	86.51	43.14
22 11 16 00-0843	EA	1-1/2" Copper x Female Iron Pipe Thread Dielectric Union	103.86	47.93
22 11 16 00-0844	EA	2" Copper x Female Iron Pipe Thread Dielectric Union	131.32	57.52
22 11 16 00-0845 Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0837)				
22 11 16 00-0846	EA	1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	59.31	31.23
22 11 16 00-0847	EA	3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	68.95	35.66
22 11 16 00-0848	EA	1" Female Brass Thread x Iron Pipe Thread Dielectric Union	82.50	39.18
22 11 16 00-0849	EA	1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	100.42	43.14
22 11 16 00-0850	EA	1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	121.07	47.93
22 11 16 00-0851	EA	2" Female Brass Thread x Iron Pipe Thread Dielectric Union	151.50	57.52
22 11 16 00-0852 Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0837)				
22 11 16 00-0853	EA	1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	56.25	31.23
22 11 16 00-0854	EA	3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	63.90	35.66
22 11 16 00-0855	EA	1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	72.78	39.18
22 11 16 00-0856	EA	1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	83.82	43.14
22 11 16 00-0857	EA	1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	101.19	47.93
22 11 16 00-0858	EA	2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	129.18	57.52
22 11 16 00-0859 Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0837)				
22 11 16 00-0860	EA	2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange	321.07	147.87
22 11 16 00-0861	EA	3" Copper x Female Iron Pipe Thread Dielectric Flange	402.13	186.22
22 11 16 00-0862	EA	4" Copper x Female Iron Pipe Thread Dielectric Flange	565.35	253.45
22 11 16 00-0863 Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0837)				
22 11 16 00-0864	EA	2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	323.05	147.87
22 11 16 00-0865	EA	3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	417.97	186.22
22 11 16 00-0866	EA	4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	748.00	253.45
22 11 16 00-0867 Brass Push-Fit Fittings (22 11 16)				
22 11 16 00-0868	EA	1/4" x 1/4" Brass Push-Fit Coupling	27.93	13.01
Note: (Sharkbite)				
22 11 16 00-0869	EA	3/8" x 3/8" Brass Push-Fit Coupling	34.65	13.89
Note: (Sharkbite)				
22 11 16 00-0870	EA	1/2" x 1/2" Brass Push-Fit Coupling	35.92	15.61
Note: (Sharkbite)				
22 11 16 00-0871	EA	5/8" x 5/8" Brass Push-Fit Coupling	41.33	16.65
Note: (Sharkbite)				
22 11 16 00-0872	EA	3/4" x 3/4" Brass Push-Fit Coupling	42.14	17.78
Note: (Sharkbite)				
22 11 16 00-0873	EA	1" x 1" Brass Push-Fit Coupling	59.21	21.24
Note: (Sharkbite)				
22 11 16 00-0874	EA	1/2" x 3/8" Brass Push-Fit Reducing Coupling	35.29	14.74
Note: (Sharkbite)				
22 11 16 00-0875	EA	3/4" x 5/8" Brass Push-Fit Reducing Coupling	40.84	16.14
Note: (Sharkbite)				
22 11 16 00-0876	EA	1" x 3/4" Brass Push-Fit Reducing Coupling	60.82	19.52
Note: (Sharkbite)				
22 11 16 00-0877	EA	1/4" x 1/4" Brass Push-Fit Elbow	29.15	13.01
Note: (Sharkbite)				
22 11 16 00-0878	EA	3/8" x 3/8" Brass Push-Fit Elbow	39.83	13.89
Note: (Sharkbite)				
22 11 16 00-0879	EA	1/2" x 1/2" Brass Push-Fit Elbow	36.59	15.61
Note: (Sharkbite)				
22 11 16 00-0880	EA	5/8" x 5/8" Brass Push-Fit Elbow	44.34	16.65
Note: (Sharkbite)				
22 11 16 00-0881	EA	3/4" x 3/4" Brass Push-Fit Elbow	41.28	17.78
Note: (Sharkbite)				
22 11 16 00-0882	EA	1" x 1" Brass Push-Fit Elbow	59.87	21.24
Note: (Sharkbite)				
22 11 16 00-0883	EA	1/2" x 3/8" Brass Push-Fit Reducing Elbow	34.73	14.74
Note: (Sharkbite)				
22 11 16 00-0884	EA	3/4" x 1/2" Brass Push-Fit Reducing Elbow	38.70	16.14
Note: (Sharkbite)				
22 11 16 00-0885	EA	1" x 3/4" Brass Push-Fit Reducing Elbow	75.64	19.52
Note: (Sharkbite)				
22 11 16 00-0886	EA	1/4" x 1/4" x 1/4" Brass Push-Fit Tee	44.22	19.52
Note: (Sharkbite)				
22 11 16 00-0887	EA	3/8" x 3/8" x 3/8" Brass Push-Fit Tee	55.97	20.82
Note: (Sharkbite)				
22 11 16 00-0888	EA	1/2" x 1/2" x 1/2" Brass Push-Fit Tee	51.28	23.42
Note: (Sharkbite)				

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0889	EA	5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	65.24	24.98
22 11 16 00-0890	EA	3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	59.82	26.67
22 11 16 00-0891	EA	1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	81.75	31.88
22 11 16 00-0892	EA	1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	57.52	22.12
22 11 16 00-0893	EA	1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	57.84	22.55
22 11 16 00-0894	EA	3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	57.74	25.59
22 11 16 00-0895	EA	1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	79.29	30.15
22 11 16 00-0896	EA	1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	33.24	14.31
22 11 16 00-0897	EA	3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.85	14.74
22 11 16 00-0898	EA	1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	32.47	15.61
22 11 16 00-0899	EA	3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	37.18	17.78
22 11 16 00-0900	EA	1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	52.24	21.24
22 11 16 00-0901	EA	1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	29.08	14.31
22 11 16 00-0902	EA	3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.85	14.74
22 11 16 00-0903	EA	1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.56	15.61
22 11 16 00-0904	EA	3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	36.81	17.78
22 11 16 00-0905	EA	5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	39.99	17.22
22 11 16 00-0906	EA	1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	47.98	19.52
22 11 16 00-0907	EA	1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	53.01	21.24
22 11 16 00-0908	EA	1/2" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	46.86	15.61
22 11 16 00-0909	EA	3/4" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	54.78	17.78
22 11 16 00-0910	EA	1" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	72.36	21.24
22 11 16 00-0911	EA	1/2" Brass Push-Fit Check Valve..... Note: (Sharkbite)	50.20	15.61
22 11 16 00-0912	EA	3/4" Brass Push-Fit Check Valve..... Note: (Sharkbite)	60.42	17.78
22 11 16 00-0913	EA	1" Brass Push-Fit Check Valve..... Note: (Sharkbite)	101.70	21.24
22 11 16 00-0914		Copper Pipe With Fittings And Hangers Assemblies (22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0915	LF	1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	26.31	3.64
		For Type K Tubing Instead Of Type L, Add	1.85	
		For Type M Tubing Instead Of Type L, Deduct	-1.53	
		For Silver Solder Instead Of 95/5 Solder, Add	3.35	
		For For Brazed Fittings, Add	0.81	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.33	
		For Work In Restricted Working Space, Add	6.11	
22 11 16 00-0916	LF	3/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	30.75	4.68
		For Type K Tubing Instead Of Type L, Add	2.26	
		For Type M Tubing Instead Of Type L, Deduct	-1.85	
		For Silver Solder Instead Of 95/5 Solder, Add	3.84	
		For For Brazed Fittings, Add	0.92	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.69	
		For Work In Restricted Working Space, Add	6.92	
22 11 16 00-0917	LF	1" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	34.30	5.59
		For Type K Tubing Instead Of Type L, Add	2.73	
		For Type M Tubing Instead Of Type L, Deduct	-2.18	
		For Silver Solder Instead Of 95/5 Solder, Add	4.13	
		For For Brazed Fittings, Add	0.97	
		For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.92	
		For Work In Restricted Working Space, Add	7.25	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 11 16 00-0918	LF 1-1/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	39.17		6.51
22 11 16 00-0919	LF 1-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	43.99		7.42
22 11 16 00-0920	LF 2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	56.51		9.23
22 11 16 00-0921	LF 2-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	70.41		11.15
22 11 16 00-0922	LF 3" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	86.45		12.95
22 11 16 00-0923	LF 4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	136.46		17.14
22 11 16 00-0924	LF 5" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	238.98		21.33
22 11 16 00-0925	LF 6" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. For Type K Tubing Instead Of Type L, Add For Type M Tubing Instead Of Type L, Deduct For Silver Solder Instead Of 95/5 Solder, Add For For Brazed Fittings, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Work In Restricted Working Space, Add For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct	312.22		25.76

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0926	LF		8" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	651.15 100.95 -70.63 41.94 3.75 -37.25 28.15 -55.73	30.80
22 11 16 00-0927			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0928			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0927)		
22 11 16 00-0929			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0928)		
22 11 16 00-0930	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.33 1.43	1.92
22 11 16 00-0931	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.15 1.51	2.01
22 11 16 00-0932	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.52 1.62	2.17
22 11 16 00-0933	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.21 1.78	2.36
22 11 16 00-0934	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.73 1.96	2.62
22 11 16 00-0935	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	14.50 2.19	2.93
22 11 16 00-0936	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	19.31 2.49	3.32
22 11 16 00-0937	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	24.53 2.95	3.93
22 11 16 00-0938	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	33.65 3.62	4.83
22 11 16 00-0939	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	57.08 4.61	6.14
22 11 16 00-0940	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	81.68 6.04	8.05
22 11 16 00-0941			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0928)		
22 11 16 00-0942	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	25.19 6.83	9.11
22 11 16 00-0943	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	32.52 8.63	11.50
22 11 16 00-0944	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	42.02 10.82	14.38
22 11 16 00-0945	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	56.52 13.52	17.98
22 11 16 00-0946	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	62.78 14.96	19.89
22 11 16 00-0947	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	73.04 16.68	19.89
22 11 16 00-0948	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	108.69 18.98	25.29
22 11 16 00-0949	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	124.12 22.43	29.96
22 11 16 00-0950	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	174.33 27.61	36.79
22 11 16 00-0951	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	220.11 35.09	46.74
22 11 16 00-0952	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	405.87 46.02	61.35
22 11 16 00-0953			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0928)		
22 11 16 00-0954	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	26.40 6.83	9.11
22 11 16 00-0955	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	33.97 8.63	11.50
22 11 16 00-0956	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.37 10.82	14.38
22 11 16 00-0957	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	59.61 13.52	17.98
22 11 16 00-0958	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	66.55 14.96	19.89
22 11 16 00-0959	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	74.31 16.68	22.29
22 11 16 00-0960	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	109.49 18.98	25.29



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0961	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	124.02	29.96
			<i>For Work In Restricted Working Space, Add</i>	22.43	
22 11 16 00-0962	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	159.59	36.79
			<i>For Work In Restricted Working Space, Add</i>	27.61	
22 11 16 00-0963	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	247.76	46.74
			<i>For Work In Restricted Working Space, Add</i>	35.09	
22 11 16 00-0964	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	425.45	61.35
			<i>For Work In Restricted Working Space, Add</i>	46.02	
22 11 16 00-0965 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0928)					
22 11 16 00-0966	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	38.55	13.66
			<i>For Work In Restricted Working Space, Add</i>	10.25	
22 11 16 00-0967	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	50.16	17.26
			<i>For Work In Restricted Working Space, Add</i>	12.94	
22 11 16 00-0968	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	62.80	21.69
			<i>For Work In Restricted Working Space, Add</i>	16.25	
22 11 16 00-0969	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	85.79	27.08
			<i>For Work In Restricted Working Space, Add</i>	20.27	
22 11 16 00-0970	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	95.63	29.96
			<i>For Work In Restricted Working Space, Add</i>	22.43	
22 11 16 00-0971	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	114.52	33.32
			<i>For Work In Restricted Working Space, Add</i>	25.02	
22 11 16 00-0972	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	146.03	37.99
			<i>For Work In Restricted Working Space, Add</i>	28.47	
22 11 16 00-0973	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	167.79	44.82
			<i>For Work In Restricted Working Space, Add</i>	33.65	
22 11 16 00-0974	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	203.76	55.24
			<i>For Work In Restricted Working Space, Add</i>	41.42	
22 11 16 00-0975	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	303.82	70.23
			<i>For Work In Restricted Working Space, Add</i>	52.63	
22 11 16 00-0976	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee	597.64	92.03
			<i>For Work In Restricted Working Space, Add</i>	69.02	
22 11 16 00-0977 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0928)					
22 11 16 00-0978	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	49.32	18.22
			<i>For Work In Restricted Working Space, Add</i>	13.66	
22 11 16 00-0979	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	63.57	23.00
			<i>For Work In Restricted Working Space, Add</i>	17.26	
22 11 16 00-0980	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	79.57	28.88
			<i>For Work In Restricted Working Space, Add</i>	21.64	
22 11 16 00-0981	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	105.79	36.07
			<i>For Work In Restricted Working Space, Add</i>	27.03	
22 11 16 00-0982	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	117.67	39.90
			<i>For Work In Restricted Working Space, Add</i>	29.91	
22 11 16 00-0983	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	138.01	44.45
			<i>For Work In Restricted Working Space, Add</i>	33.36	
22 11 16 00-0984	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	170.58	50.56
			<i>For Work In Restricted Working Space, Add</i>	37.97	
22 11 16 00-0985	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	197.46	59.79
			<i>For Work In Restricted Working Space, Add</i>	44.87	
22 11 16 00-0986	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	240.65	73.58
			<i>For Work In Restricted Working Space, Add</i>	55.22	
22 11 16 00-0987	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	344.50	93.58
			<i>For Work In Restricted Working Space, Add</i>	70.18	
22 11 16 00-0988	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	623.36	122.71
			<i>For Work In Restricted Working Space, Add</i>	92.03	
22 11 16 00-0989 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts (22 11 16 00-0928)					
22 11 16 00-0990	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	22.54	8.39
			<i>For Work In Restricted Working Space, Add</i>	6.33	
22 11 16 00-0991	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	31.22	11.38
			<i>For Work In Restricted Working Space, Add</i>	8.52	
22 11 16 00-0992	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	50.04	14.86
			<i>For Work In Restricted Working Space, Add</i>	11.14	
22 11 16 00-0993	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	56.32	16.42
			<i>For Work In Restricted Working Space, Add</i>	12.33	
22 11 16 00-0994	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	65.89	18.34
			<i>For Work In Restricted Working Space, Add</i>	13.77	
22 11 16 00-0995	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert	72.24	20.85
			<i>For Work In Restricted Working Space, Add</i>	15.68	
22 11 16 00-0996	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	87.31	24.68
			<i>For Work In Restricted Working Space, Add</i>	18.51	
22 11 16 00-0997	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	116.99	30.32
			<i>For Work In Restricted Working Space, Add</i>	22.79	
22 11 16 00-0998	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	183.84	38.59
			<i>For Work In Restricted Working Space, Add</i>	28.94	
22 11 16 00-0999	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert.....	389.44	50.56
			<i>For Work In Restricted Working Space, Add</i>	37.97	



MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 11 16 00-1000		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts (22 11 16 00-0928)			
22 11 16 00-1001	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	24.45	5.99	
		<i>For Work In Restricted Working Space, Add</i>	4.49		
22 11 16 00-1002	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	31.30	8.39	
		<i>For Work In Restricted Working Space, Add</i>	6.33		
22 11 16 00-1003	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	39.35	11.38	
		<i>For Work In Restricted Working Space, Add</i>	8.52		
22 11 16 00-1004	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	49.34	14.86	
		<i>For Work In Restricted Working Space, Add</i>	11.14		
22 11 16 00-1005	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	57.36	16.42	
		<i>For Work In Restricted Working Space, Add</i>	12.33		
22 11 16 00-1006	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	71.06	18.34	
		<i>For Work In Restricted Working Space, Add</i>	13.77		
22 11 16 00-1007	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	106.03	20.85	
		<i>For Work In Restricted Working Space, Add</i>	15.68		
22 11 16 00-1008	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	202.19	24.68	
		<i>For Work In Restricted Working Space, Add</i>	18.51		
22 11 16 00-1009	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert.....	297.38	30.32	
		<i>For Work In Restricted Working Space, Add</i>	22.79		
22 11 16 00-1010		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters (22 11 16 00-0928)			
22 11 16 00-1011	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	18.61	5.99	
		<i>For Work In Restricted Working Space, Add</i>	4.49		
22 11 16 00-1012	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	25.99	8.39	
		<i>For Work In Restricted Working Space, Add</i>	6.33		
22 11 16 00-1013	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	36.66	11.38	
		<i>For Work In Restricted Working Space, Add</i>	8.52		
22 11 16 00-1014	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	49.34	14.86	
		<i>For Work In Restricted Working Space, Add</i>	11.14		
22 11 16 00-1015	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	57.60	16.42	
		<i>For Work In Restricted Working Space, Add</i>	12.33		
22 11 16 00-1016	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	68.21	18.34	
		<i>For Work In Restricted Working Space, Add</i>	13.77		
22 11 16 00-1017	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	94.48	20.85	
		<i>For Work In Restricted Working Space, Add</i>	15.68		
22 11 16 00-1018	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	112.77	24.68	
		<i>For Work In Restricted Working Space, Add</i>	18.51		
22 11 16 00-1019	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	162.30	30.32	
		<i>For Work In Restricted Working Space, Add</i>	22.79		
22 11 16 00-1020		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0928)			
22 11 16 00-1021	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	19.99	5.99	
		<i>For Work In Restricted Working Space, Add</i>	4.49		
22 11 16 00-1022	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	26.43	8.39	
		<i>For Work In Restricted Working Space, Add</i>	6.33		
22 11 16 00-1023	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	36.78	11.38	
		<i>For Work In Restricted Working Space, Add</i>	8.52		
22 11 16 00-1024	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	49.74	14.86	
		<i>For Work In Restricted Working Space, Add</i>	11.14		
22 11 16 00-1025	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	55.75	16.42	
		<i>For Work In Restricted Working Space, Add</i>	12.33		
22 11 16 00-1026	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	66.70	18.34	
		<i>For Work In Restricted Working Space, Add</i>	13.77		
22 11 16 00-1027	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	95.35	20.85	
		<i>For Work In Restricted Working Space, Add</i>	15.68		
22 11 16 00-1028	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	128.02	24.68	
		<i>For Work In Restricted Working Space, Add</i>	18.51		
22 11 16 00-1029	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	188.23	30.32	
		<i>For Work In Restricted Working Space, Add</i>	22.79		
22 11 16 00-1030		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0928)			
22 11 16 00-1031	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	16.75	5.51	
		<i>For Work In Restricted Working Space, Add</i>	4.10		
22 11 16 00-1032	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	23.55	7.66	
		<i>For Work In Restricted Working Space, Add</i>	5.75		
22 11 16 00-1033	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	31.64	10.30	
		<i>For Work In Restricted Working Space, Add</i>	7.73		
22 11 16 00-1034	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	42.56	13.54	
		<i>For Work In Restricted Working Space, Add</i>	10.14		
22 11 16 00-1035	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	48.44	14.98	
		<i>For Work In Restricted Working Space, Add</i>	11.22		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1036	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	54.53	16.65
			<i>For Work In Restricted Working Space, Add</i>	12.51	
22 11 16 00-1037	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings	78.22	18.93
			<i>For Work In Restricted Working Space, Add</i>	14.24	
22 11 16 00-1038	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	87.15	22.41
			<i>For Work In Restricted Working Space, Add</i>	16.82	
22 11 16 00-1039	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	109.73	27.56
			<i>For Work In Restricted Working Space, Add</i>	20.71	
22 11 16 00-1040	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	168.04	35.11
			<i>For Work In Restricted Working Space, Add</i>	26.32	
22 11 16 00-1041	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	277.79	46.02
			<i>For Work In Restricted Working Space, Add</i>	34.51	
22 11 16 00-1042 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0928)					
22 11 16 00-1043	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	29.59	6.59
			<i>For Work In Restricted Working Space, Add</i>	4.93	
22 11 16 00-1044	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	36.81	9.23
			<i>For Work In Restricted Working Space, Add</i>	6.90	
22 11 16 00-1045	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	45.15	12.34
			<i>For Work In Restricted Working Space, Add</i>	9.27	
22 11 16 00-1046	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	74.00	16.18
			<i>For Work In Restricted Working Space, Add</i>	12.15	
22 11 16 00-1047	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	78.92	17.98
			<i>For Work In Restricted Working Space, Add</i>	13.45	
22 11 16 00-1048	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	106.66	20.02
			<i>For Work In Restricted Working Space, Add</i>	15.03	
22 11 16 00-1049	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	174.22	22.77
			<i>For Work In Restricted Working Space, Add</i>	17.08	
22 11 16 00-1050	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	244.62	26.96
			<i>For Work In Restricted Working Space, Add</i>	20.21	
22 11 16 00-1051	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	384.16	33.07
			<i>For Work In Restricted Working Space, Add</i>	24.84	
22 11 16 00-1052	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	512.21	42.06
			<i>For Work In Restricted Working Space, Add</i>	31.56	
22 11 16 00-1053	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions	635.21	55.24
			<i>For Work In Restricted Working Space, Add</i>	41.42	
22 11 16 00-1054 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0928)					
22 11 16 00-1055	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	13.41	5.64
			<i>For Work In Restricted Working Space, Add</i>	2.56	
22 11 16 00-1056	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	17.71	7.07
			<i>For Work In Restricted Working Space, Add</i>	3.24	
22 11 16 00-1057	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	25.76	8.87
			<i>For Work In Restricted Working Space, Add</i>	4.06	
22 11 16 00-1058	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	30.31	6.71
			<i>For Work In Restricted Working Space, Add</i>	5.07	
22 11 16 00-1059	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	32.36	7.43
			<i>For Work In Restricted Working Space, Add</i>	5.61	
22 11 16 00-1060	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	42.86	8.39
			<i>For Work In Restricted Working Space, Add</i>	6.26	
22 11 16 00-1061	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	63.36	9.46
			<i>For Work In Restricted Working Space, Add</i>	7.12	
22 11 16 00-1062	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	68.59	11.26
			<i>For Work In Restricted Working Space, Add</i>	8.41	
22 11 16 00-1063	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	102.90	13.78
			<i>For Work In Restricted Working Space, Add</i>	10.35	
22 11 16 00-1064	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	214.04	17.49
			<i>For Work In Restricted Working Space, Add</i>	13.16	
22 11 16 00-1065	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap	276.04	23.00
			<i>For Work In Restricted Working Space, Add</i>	17.26	
22 11 16 00-1066 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges (22 11 16 00-0928)					
22 11 16 00-1067	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	22.67	4.31
			<i>For Work In Restricted Working Space, Add</i>	3.27	
22 11 16 00-1068	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	27.94	6.11
			<i>For Work In Restricted Working Space, Add</i>	4.60	
22 11 16 00-1069	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	34.65	8.27
			<i>For Work In Restricted Working Space, Add</i>	6.18	
22 11 16 00-1070	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	41.52	10.79
			<i>For Work In Restricted Working Space, Add</i>	8.12	
22 11 16 00-1071	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	44.74	11.99
			<i>For Work In Restricted Working Space, Add</i>	8.99	
22 11 16 00-1072	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	52.97	13.30
			<i>For Work In Restricted Working Space, Add</i>	10.00	
22 11 16 00-1073	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	68.67	15.22
			<i>For Work In Restricted Working Space, Add</i>	11.40	
22 11 16 00-1074	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	78.28	17.98
			<i>For Work In Restricted Working Space, Add</i>	13.45	
22 11 16 00-1075	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges	97.63	22.05
			<i>For Work In Restricted Working Space, Add</i>	16.57	

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1076	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	136.88 21.07	28.04
22 11 16 00-1077	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 Lb. Flanges..... <i>For Work In Restricted Working Space, Add</i>	242.39 27.61	36.79
22 11 16 00-1078		Polypropylene Random (PP-R), Heat Fusion, Domestic Water Pipe (22 11 16)		
22 11 16 00-1079		Polypropylene Random (PP-R), Heat Fusion, Domestic Hot Water Pipe (22 11 16) 00-1078 Note: Aquatherm greenpipe®		
22 11 16 00-1080	LF	1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	5.40	2.04
22 11 16 00-1081	LF	3/4" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	6.26	2.13
22 11 16 00-1082	LF	1" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	8.40	2.55
22 11 16 00-1083	LF	1-1/4" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	10.46	2.73
22 11 16 00-1084	LF	1-1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	14.29	3.07
22 11 16 00-1085	LF	2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	18.70	3.13
22 11 16 00-1086	LF	2-1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	26.63	4.25
22 11 16 00-1087	LF	3" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	35.13	4.92
22 11 16 00-1088	LF	3-1/2" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	46.99	5.49
22 11 16 00-1089	LF	4" SDR 7.4, Polypropylene, Heat Fusion, Domestic Hot Water Pipe.....	55.44	6.07
22 11 16 00-1090		Polypropylene Random (PP-R), Heat Fusion, Domestic Cold Water Pipe (22 11 16) 00-1078 Note: Aquatherm greenpipe®		
22 11 16 00-1091	LF	1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	4.98	2.04
22 11 16 00-1092	LF	3/4" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	5.57	2.13
22 11 16 00-1093	LF	1" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	7.16	2.55
22 11 16 00-1094	LF	1-1/4" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	8.64	2.73
22 11 16 00-1095	LF	1-1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	11.12	3.07
22 11 16 00-1096	LF	2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	14.20	3.13
22 11 16 00-1097	LF	2-1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	19.70	4.25
22 11 16 00-1098	LF	3" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	25.99	4.92
22 11 16 00-1099	LF	3-1/2" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	35.51	5.49
22 11 16 00-1100	LF	4" SDR 11, Polypropylene, Heat Fusion, Domestic Cold Water Pipe.....	41.84	6.07
22 11 16 00-1101		Polypropylene Random (PP-R), Heat Fusion, UV Protected, Domestic Hot Water Pipe (22 11 16 00-1078) Note: Aquatherm greenpipe®.		
22 11 16 00-1102	LF	1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	5.62	2.04
22 11 16 00-1103	LF	3/4" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	6.56	2.13
22 11 16 00-1104	LF	1" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	8.73	2.55
22 11 16 00-1105	LF	1-1/4" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	10.88	2.73
22 11 16 00-1106	LF	1-1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	15.52	3.07
22 11 16 00-1107	LF	2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	19.37	3.13
22 11 16 00-1108	LF	2-1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	27.58	4.25
22 11 16 00-1109	LF	3" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	37.51	4.92
22 11 16 00-1110	LF	3-1/2" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	46.86	5.49
22 11 16 00-1111	LF	4" SDR 7.4, Polypropylene, Heat Fusion, UV Protected, Domestic Hot Water Pipe.....	55.07	6.07
22 11 16 00-1112		Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe (22 11 16 00-1078) Note: Aquatherm climatherm®.		
22 11 16 00-1113	LF	1/2" 7.4 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	4.97	2.04
22 11 16 00-1114	LF	3/4" 7.4 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	5.65	2.13
22 11 16 00-1115	LF	1" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	6.70	2.55
22 11 16 00-1116	LF	1-1/4" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	7.99	2.73
22 11 16 00-1117	LF	1-1/2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	9.95	3.07
22 11 16 00-1118	LF	2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	12.42	3.13
22 11 16 00-1119	LF	2-1/2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	17.26	4.25
22 11 16 00-1120	LF	3" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	22.59	4.92
22 11 16 00-1121	LF	3-1/2" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	29.92	5.50
22 11 16 00-1122	LF	4" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	35.89	6.07
22 11 16 00-1123	LF	6" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	43.25	7.76
22 11 16 00-1124	LF	8" 11 SDR, Polypropylene Random (PP-R), Heat Fusion, Heating And Cooling Pipe.....	68.69	10.20
22 11 16 00-1125		Pipe Clamp For Polypropylene Random (PP-R) Pipe (22 11 16 00-1078)		
22 11 16 00-1126	EA	1/2" Pipe Clamp For Polypropylene Pipe.....	13.64	5.03
22 11 16 00-1127	EA	3/4" Pipe Clamp For Polypropylene Pipe.....	14.18	5.03
22 11 16 00-1128	EA	1" Pipe Clamp For Polypropylene Pipe.....	14.55	5.03
22 11 16 00-1129	EA	1-1/4" Pipe Clamp For Polypropylene Pipe.....	14.67	5.03
22 11 16 00-1130	EA	1-1/2" Pipe Clamp For Polypropylene Pipe.....	15.09	5.03
22 11 16 00-1131	EA	2" Pipe Clamp For Polypropylene Pipe.....	16.30	5.03
22 11 16 00-1132	EA	2-1/2" Pipe Clamp For Polypropylene Pipe.....	18.05	5.03
22 11 16 00-1133	EA	3" Pipe Clamp For Polypropylene Pipe.....	18.65	5.03
22 11 16 00-1134	EA	3-1/2" Pipe Clamp For Polypropylene Pipe.....	19.50	5.03
22 11 16 00-1135	EA	4" Pipe Clamp For Polypropylene Pipe.....	20.64	5.03



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1136	Polypropylene Random (PP-R) Pipe, Pipe Fastening Strap (22 11 16 00-1078)			
22 11 16 00-1137	EA	Up to 1" Polypropylene Pipe, Single Pipe Fastening Strap, 1-3/8" Spike	4.66	
22 11 16 00-1138	EA	Up to 1" Polypropylene Pipe, Single Pipe Fastening Strap, 2-1/2" Spike	4.81	
22 11 16 00-1139	EA	Up to 1" Polypropylene Pipe, Double Pipe Fastening Strap, 1-3/8" Spike	4.88	
22 11 16 00-1140	EA	Up to 1" Polypropylene Pipe, Double Pipe Fastening Strap, 2-1/2" Spike	4.94	
22 11 16 00-1141	Polypropylene Random (PP-R) Pipe Plastic Pipe Clamp (22 11 16 00-1078)			
22 11 16 00-1142	EA	1/2" Polypropylene Pipe Plastic Pipe Clamp	11.11	2.62
22 11 16 00-1143	EA	3/4" Polypropylene Pipe Plastic Pipe Clamp	11.48	2.62
22 11 16 00-1144	Polypropylene Random (PP-R), Heat Fusion, Socket Coupling (22 11 16 00-1078)			
22 11 16 00-1145	EA	1/2" Polypropylene, Heat Fusion, Socket Coupling	9.66	4.07
22 11 16 00-1146	EA	3/4" Polypropylene, Heat Fusion, Socket Coupling	10.21	4.25
22 11 16 00-1147	EA	1" Polypropylene, Heat Fusion, Socket Coupling	12.45	5.09
22 11 16 00-1148	EA	1-1/4" Polypropylene, Heat Fusion, Socket Coupling	13.62	5.46
22 11 16 00-1149	EA	1-1/2" Polypropylene, Heat Fusion, Socket Coupling	17.92	6.13
22 11 16 00-1150	EA	2" Polypropylene, Heat Fusion, Socket Coupling	23.84	6.25
22 11 16 00-1151	EA	2-1/2" Polypropylene, Heat Fusion, Socket Coupling	29.68	8.50
22 11 16 00-1152	EA	3" Polypropylene, Heat Fusion, Socket Coupling	47.55	9.83
22 11 16 00-1153	EA	3-1/2" Polypropylene, Heat Fusion, Socket Coupling	67.33	10.99
22 11 16 00-1154	EA	4" Polypropylene, Heat Fusion, Socket Coupling	83.79	12.14
22 11 16 00-1155	Polypropylene Random (PP-R), Heat Fusion, Bushing (22 11 16 00-1078)			
22 11 16 00-1156	EA	1" Polypropylene, Heat Fusion, Bushing	10.41	4.07
22 11 16 00-1157	EA	1-1/4" Polypropylene, Heat Fusion, Bushing	12.01	4.25
22 11 16 00-1158	EA	1-1/2" Polypropylene, Heat Fusion, Bushing	16.01	5.09
22 11 16 00-1159	EA	2" Polypropylene, Heat Fusion, Bushing	22.53	5.46
22 11 16 00-1160	EA	2-1/2" Polypropylene, Heat Fusion, Bushing	25.25	6.13
22 11 16 00-1161	EA	3" Polypropylene, Heat Fusion, Bushing	41.44	6.25
22 11 16 00-1162	EA	3-1/2" Polypropylene, Heat Fusion, Bushing	63.26	8.50
22 11 16 00-1163	EA	4" x 2-1/2" Polypropylene, Heat Fusion, Bushing	76.12	9.83
22 11 16 00-1164	EA	4" x 3" Polypropylene, Heat Fusion, Bushing	92.19	10.99
22 11 16 00-1165	EA	4" x 3-1/2" Polypropylene, Heat Fusion, Bushing	96.59	12.14
22 11 16 00-1166	Polypropylene Random (PP-R), Heat Fusion, Reducing Coupling (22 11 16 00-1078)			
22 11 16 00-1167	EA	1-1/4" Polypropylene, Heat Fusion, Reducing Coupling	13.92	4.25
22 11 16 00-1168	EA	1-1/2" Polypropylene, Heat Fusion, Reducing Coupling	18.38	5.09
22 11 16 00-1169	EA	2" Polypropylene, Heat Fusion, Reducing Coupling	27.24	5.46
22 11 16 00-1170	EA	2-1/2" Polypropylene, Heat Fusion, Reducing Coupling	30.19	6.13
22 11 16 00-1171	EA	3" Polypropylene, Heat Fusion, Reducing Coupling	36.68	6.25
22 11 16 00-1172	EA	3-1/2" Polypropylene, Heat Fusion, Reducing Coupling	58.93	8.50
22 11 16 00-1173	EA	4" x 3" Polypropylene, Heat Fusion, Reducing Coupling	76.46	10.32
22 11 16 00-1174	EA	4" x 3-1/2" Polypropylene, Heat Fusion, Reducing Coupling	85.72	12.14
22 11 16 00-1175	Polypropylene Random (PP-R), Heat Fusion, 90 Degree Elbow (22 11 16 00-1078)			
22 11 16 00-1176	EA	1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	17.90	8.13
22 11 16 00-1177	EA	3/4" Polypropylene, Heat Fusion, 90 Degree Elbow	19.22	8.56
22 11 16 00-1178	EA	1" Polypropylene, Heat Fusion, 90 Degree Elbow	23.43	10.20
22 11 16 00-1179	EA	1-1/4" Polypropylene, Heat Fusion, 90 Degree Elbow	26.65	10.99
22 11 16 00-1180	EA	1-1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	34.48	12.20
22 11 16 00-1181	EA	2" Polypropylene, Heat Fusion, 90 Degree Elbow	40.37	12.44
22 11 16 00-1182	EA	2-1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	68.44	17.05
22 11 16 00-1183	EA	3" Polypropylene, Heat Fusion, 90 Degree Elbow	96.40	19.66
22 11 16 00-1184	EA	3-1/2" Polypropylene, Heat Fusion, 90 Degree Elbow	124.99	21.97
22 11 16 00-1185	EA	4" Polypropylene, Heat Fusion, 90 Degree Elbow	173.41	24.27
22 11 16 00-1186	Polypropylene Random (PP-R), Heat Fusion, 90 Degree Street Elbow (22 11 16 00-1078)			
22 11 16 00-1187	EA	1/2" Polypropylene, Heat Fusion, 90 Degree Street Elbow	17.90	8.13
22 11 16 00-1188	EA	3/4" Polypropylene, Heat Fusion, 90 Degree Street Elbow	19.22	8.56
22 11 16 00-1189	EA	1" Polypropylene, Heat Fusion, 90 Degree Street Elbow	23.43	10.20
22 11 16 00-1190	EA	1-1/4" Polypropylene, Heat Fusion, 90 Degree Street Elbow	26.65	10.99
22 11 16 00-1191	Polypropylene Random (PP-R), Heat Fusion, 45 Degree Elbow (22 11 16 00-1078)			
22 11 16 00-1192	EA	1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	17.90	8.13
22 11 16 00-1193	EA	3/4" Polypropylene, Heat Fusion, 45 Degree Elbow	19.22	8.56
22 11 16 00-1194	EA	1" Polypropylene, Heat Fusion, 45 Degree Elbow	23.43	10.20
22 11 16 00-1195	EA	1-1/4" Polypropylene, Heat Fusion, 45 Degree Elbow	26.65	10.99
22 11 16 00-1196	EA	1-1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	34.48	12.20
22 11 16 00-1197	EA	2" Polypropylene, Heat Fusion, 45 Degree Elbow	40.19	12.44
22 11 16 00-1198	EA	2-1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	68.02	17.05
22 11 16 00-1199	EA	3" Polypropylene, Heat Fusion, 45 Degree Elbow	101.96	19.66

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1200 EA 3-1/2" Polypropylene, Heat Fusion, 45 Degree Elbow	133.11	21.97
22 11 16 00-1201 EA 4" Polypropylene, Heat Fusion, 45 Degree Elbow	185.86	24.27
22 11 16 00-1202 Polypropylene Random (PP-R), Heat Fusion, 45 Degree Street Elbow (22 11 16 00-1078)		
22 11 16 00-1203 EA 1/2" Polypropylene, Heat Fusion, 45 Degree Street Elbow	17.88	8.13
22 11 16 00-1204 EA 3/4" Polypropylene, Heat Fusion, 45 Degree Street Elbow	19.22	8.56
22 11 16 00-1205 EA 1" Polypropylene, Heat Fusion, 45 Degree Street Elbow	23.43	10.20
22 11 16 00-1206 EA 1-1/4" Polypropylene, Heat Fusion, 45 Degree Street Elbow	26.65	10.99
22 11 16 00-1207 Polypropylene Random (PP-R), Heat Fusion, Tee (22 11 16 00-1078)		
22 11 16 00-1208 EA 1/2" Polypropylene, Heat Fusion, Tee	26.61	12.20
22 11 16 00-1209 EA 3/4" Polypropylene, Heat Fusion, Tee	28.65	12.81
22 11 16 00-1210 EA 1" Polypropylene, Heat Fusion, Tee	34.33	15.23
22 11 16 00-1211 EA 1-1/4" Polypropylene, Heat Fusion, Tee	38.80	16.45
22 11 16 00-1212 EA 1-1/2" Polypropylene, Heat Fusion, Tee	53.51	18.33
22 11 16 00-1213 EA 2" Polypropylene, Heat Fusion, Tee	61.53	18.69
22 11 16 00-1214 EA 2-1/2" Polypropylene, Heat Fusion, Tee	91.54	25.55
22 11 16 00-1215 EA 3" Polypropylene, Heat Fusion, Tee	125.76	29.49
22 11 16 00-1216 EA 3-1/2" Polypropylene, Heat Fusion, Tee	169.93	32.93
22 11 16 00-1217 EA 4" Polypropylene, Heat Fusion, Tee	211.06	36.35
22 11 16 00-1218 Polypropylene Random (PP-R), Heat Fusion, Reducing Tee (22 11 16 00-1078)		
22 11 16 00-1219 EA 1/2" Polypropylene, Heat Fusion, Reducing Tee	26.61	12.20
22 11 16 00-1220 EA 3/4" Polypropylene, Heat Fusion, Reducing Tee	28.65	12.81
22 11 16 00-1221 EA 1" Polypropylene, Heat Fusion, Reducing Tee	34.28	15.23
22 11 16 00-1222 EA 1-1/4" Polypropylene, Heat Fusion, Reducing Tee	38.80	16.45
22 11 16 00-1223 EA 1-1/2" Polypropylene, Heat Fusion, Reducing Tee	53.51	18.33
22 11 16 00-1224 EA 2" Polypropylene, Heat Fusion, Reducing Tee	60.07	18.69
22 11 16 00-1225 EA 2-1/2" Polypropylene, Heat Fusion, Reducing Tee	88.08	25.55
22 11 16 00-1226 EA 3" Polypropylene, Heat Fusion, Reducing Tee	133.13	29.49
22 11 16 00-1227 EA 3-1/2" Polypropylene, Heat Fusion, Reducing Tee	181.69	32.93
22 11 16 00-1228 EA 4" x 2-1/2" Polypropylene, Heat Fusion, Reducing Tee	206.88	36.35
22 11 16 00-1229 EA 4" x 3" Polypropylene, Heat Fusion, Reducing Tee	211.53	36.35
22 11 16 00-1230 EA 4" x 3-1/2" Polypropylene, Heat Fusion, Reducing Tee	212.06	36.35
22 11 16 00-1231 Polypropylene Random (PP-R), Heat Fusion, End Cap (22 11 16 00-1078)		
22 11 16 00-1232 EA 1/2" Polypropylene, Heat Fusion, End Cap	10.53	4.07
22 11 16 00-1233 EA 3/4" Polypropylene, Heat Fusion, End Cap	11.54	4.25
22 11 16 00-1234 EA 1" Polypropylene, Heat Fusion, End Cap	13.89	5.09
22 11 16 00-1235 EA 1-1/4" Polypropylene, Heat Fusion, End Cap	16.73	5.46
22 11 16 00-1236 EA 1-1/2" Polypropylene, Heat Fusion, End Cap	20.26	6.13
22 11 16 00-1237 EA 2" Polypropylene, Heat Fusion, End Cap	25.91	6.25
22 11 16 00-1238 EA 2-1/2" Polypropylene, Heat Fusion, End Cap	36.43	8.50
22 11 16 00-1239 EA 3" Polypropylene, Heat Fusion, End Cap	63.57	9.83
22 11 16 00-1240 EA 3-1/2" Polypropylene, Heat Fusion, End Cap	74.79	10.99
22 11 16 00-1241 EA 4" Polypropylene, Heat Fusion, End Cap	104.71	12.14
22 11 16 00-1242 Polypropylene Random (PP-R), Heat Fusion Outlet (22 11 16 00-1078)		
22 11 16 00-1243 EA 1-1/4" x 1/2" Polypropylene, Heat Fusion Outlet	13.13	
22 11 16 00-1244 EA 1-1/4" x 3/4" Polypropylene, Heat Fusion Outlet	13.50	
22 11 16 00-1245 EA 1-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	13.70	
22 11 16 00-1246 EA 1-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	14.07	
22 11 16 00-1247 EA 2" x 1/2" Polypropylene, Heat Fusion Outlet	14.64	
22 11 16 00-1248 EA 2" x 3/4" Polypropylene, Heat Fusion Outlet	15.01	
22 11 16 00-1249 EA 2" x 1" Polypropylene, Heat Fusion Outlet	16.83	
22 11 16 00-1250 EA 2-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	15.59	
22 11 16 00-1251 EA 2-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	15.96	
22 11 16 00-1252 EA 2-1/2" x 1" Polypropylene, Heat Fusion Outlet	17.78	
22 11 16 00-1253 EA 2-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet	18.63	
22 11 16 00-1254 EA 3" x 1/2" Polypropylene, Heat Fusion Outlet	16.53	
22 11 16 00-1255 EA 3" x 3/4" Polypropylene, Heat Fusion Outlet	16.90	
22 11 16 00-1256 EA 3" x 1" Polypropylene, Heat Fusion Outlet	18.72	
22 11 16 00-1257 EA 3" x 1-1/4" Polypropylene, Heat Fusion Outlet	19.57	
22 11 16 00-1258 EA 3-1/2" x 1/2" Polypropylene, Heat Fusion Outlet	16.53	
22 11 16 00-1259 EA 3-1/2" x 3/4" Polypropylene, Heat Fusion Outlet	17.84	
22 11 16 00-1260 EA 3-1/2" x 1" Polypropylene, Heat Fusion Outlet	19.66	
22 11 16 00-1261 EA 3-1/2" x 1-1/4" Polypropylene, Heat Fusion Outlet	20.51	
22 11 16 00-1262 EA 3-1/2" x 1-1/2" Polypropylene, Heat Fusion Outlet	24.22	
22 11 16 00-1263 EA 4" x 1/2" Polypropylene, Heat Fusion Outlet	18.42	
22 11 16 00-1264 EA 4" x 3/4" Polypropylene, Heat Fusion Outlet	18.79	
22 11 16 00-1265 EA 4" x 1" Polypropylene, Heat Fusion Outlet	20.61	
22 11 16 00-1266 EA 4" x 1-1/4" Polypropylene, Heat Fusion Outlet	21.46	
22 11 16 00-1267 EA 4" x 1-1/2" Polypropylene, Heat Fusion Outlet	24.22	
22 11 16 00-1268 EA 4" x 2" Polypropylene, Heat Fusion Outlet	28.47	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1269			Polypropylene Random (PP-R), Flange Adaptor With Gaskets Included (22 11 16 00-1078)		
22 11 16 00-1270	EA		1" Polypropylene, Flange Adaptor With Gaskets Included.....	15.50	5.09
22 11 16 00-1271	EA		1-1/4" Polypropylene, Flange Adaptor With Gaskets Included.....	17.17	5.46
22 11 16 00-1272	EA		1-1/2" Polypropylene, Flange Adaptor With Gaskets Included.....	22.03	6.13
22 11 16 00-1273	EA		2" Polypropylene, Flange Adaptor With Gaskets Included.....	23.53	6.25
22 11 16 00-1274	EA		2-1/2" Polypropylene, Flange Adaptor With Gaskets Included.....	32.43	8.50
22 11 16 00-1275	EA		3" Polypropylene, Flange Adaptor With Gaskets Included.....	51.05	9.83
22 11 16 00-1276	EA		3-1/2" Polypropylene, Flange Adaptor With Gaskets Included.....	68.73	10.99
22 11 16 00-1277	EA		4" Polypropylene, Flange Adaptor With Gaskets Included.....	143.37	12.14
22 11 16 00-1278			Polypropylene Random (PP-R), Flange Ring With ANSI Bolt Pattern (22 11 16 00-1078)		
22 11 16 00-1279	EA		1" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	25.16	
22 11 16 00-1280	EA		1-1/4" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	33.18	
22 11 16 00-1281	EA		1-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	41.38	
22 11 16 00-1282	EA		2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	49.14	
22 11 16 00-1283	EA		2-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	68.65	
22 11 16 00-1284	EA		3" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	79.68	
22 11 16 00-1285	EA		3-1/2" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	98.66	
22 11 16 00-1286	EA		4" Polypropylene, Flange Ring With ANSI Bolt Pattern.....	119.45	
22 11 16 00-1287			Polypropylene Random (PP-R), Electrofusion Coupling (22 11 16 00-1078)		
22 11 16 00-1288	EA		1/2" Polypropylene, Electrofusion Coupling.....	55.74	8.13
22 11 16 00-1289	EA		3/4" Polypropylene, Electrofusion Coupling.....	58.14	8.56
22 11 16 00-1290	EA		1" Polypropylene, Electrofusion Coupling.....	66.34	10.20
22 11 16 00-1291	EA		1-1/4" Polypropylene, Electrofusion Coupling.....	68.66	10.99
22 11 16 00-1292	EA		1-1/2" Polypropylene, Electrofusion Coupling.....	74.76	12.20
22 11 16 00-1293	EA		2" Polypropylene, Electrofusion Coupling.....	97.90	12.44
22 11 16 00-1294	EA		2-1/2" Polypropylene, Electrofusion Coupling.....	120.63	17.05
22 11 16 00-1295	EA		3" Polypropylene, Electrofusion Coupling.....	149.76	19.66
22 11 16 00-1296	EA		3-1/2" Polypropylene, Electrofusion Coupling.....	200.76	21.97
22 11 16 00-1297	EA		4" Polypropylene, Electrofusion Coupling.....	245.92	24.27
22 11 16 00-1298			Polypropylene Random (PP-R), Heat Fusion, FIP Rear-Mount Back Plate Elbow (22 11 16 00-1078)		
22 11 16 00-1299	EA		1/2" Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow.....	31.11	11.17
22 11 16 00-1300	EA		3/4" Polypropylene, Heat Fusion, FIP Rear-Mount Back Plate Elbow.....	36.31	11.59
22 11 16 00-1301			Polypropylene Random (PP-R), Heat Fusion, FIP Side-Mount Back Plate Elbow (22 11 16 00-1078)		
22 11 16 00-1302	EA		1/2" Polypropylene, Heat Fusion, FIP Side-Mount Back Plate Elbow.....	33.22	11.17
22 11 16 00-1303			Polypropylene Random (PP-R), Heat Fusion, ISO Plug For Pressure Test (22 11 16 00-1078)		
22 11 16 00-1304	EA		1/2" Polypropylene, Heat Fusion, ISO Plug For Pressure Test.....	9.32	4.07
22 11 16 00-1305	EA		3/4" Polypropylene, Heat Fusion, ISO Plug For Pressure Test.....	10.05	4.25
22 11 16 00-1306			Polypropylene Random (PP-R), Heat Fusion, Round FIP NPT Transition Piece (22 11 16 00-1078)		
22 11 16 00-1307	EA		1/2" x 1/2" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	23.78	8.13
22 11 16 00-1308	EA		1/2" x 3/4" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	26.16	8.13
22 11 16 00-1309	EA		3/4" x 1/2" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	24.63	8.56
22 11 16 00-1310	EA		3/4" x 3/4" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	27.01	8.56
22 11 16 00-1311	EA		1" x 3/4" Polypropylene, Heat Fusion, Round FIP NPT Transition Piece.....	31.28	10.20
22 11 16 00-1312			Polypropylene Random (PP-R), Heat Fusion, Hex FIP NPT Transition Piece (22 11 16 00-1078)		
22 11 16 00-1313	EA		1/2" x 1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	28.05	8.13
22 11 16 00-1314	EA		1/2" x 3/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	30.07	8.13
22 11 16 00-1315	EA		3/4" x 1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	28.90	8.56
22 11 16 00-1316	EA		3/4" x 3/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	30.92	8.56
22 11 16 00-1317	EA		1" x 3/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	36.30	10.20
22 11 16 00-1318	EA		1" x 1" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	52.70	10.20
22 11 16 00-1319	EA		1-1/4" x 1" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	55.89	10.99
22 11 16 00-1320	EA		1-1/4" x 1-1/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	73.01	10.99
22 11 16 00-1321	EA		1-1/2" x 1-1/4" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	77.14	12.20
22 11 16 00-1322	EA		1-1/2" x 1-1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	83.60	12.20
22 11 16 00-1323	EA		2" x 1-1/2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	89.74	12.44
22 11 16 00-1324	EA		2" x 2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	116.56	12.44
22 11 16 00-1325	EA		2-1/2" x 2" Polypropylene, Heat Fusion, Hex FIP NPT Transition Piece.....	129.80	17.05



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-1326	Polypropylene Random (PP-R), Heat Fusion, Round MIP NPT Transition Piece (22 11 16 00-1078)			
22 11 16 00-1327	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	33.96	8.13
22 11 16 00-1328	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	36.49	8.13
22 11 16 00-1329	EA	3/4" x 1/2" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	34.81	8.56
22 11 16 00-1330	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	37.34	8.56
22 11 16 00-1331	EA	1" x 3/4" Polypropylene, Heat Fusion, Round MIP NPT Transition Piece	44.28	10.20
22 11 16 00-1332	Polypropylene Random (PP-R), Heat Fusion, Hex MIP NPT Transition Piece (22 11 16 00-1078)			
22 11 16 00-1333	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	29.24	8.13
22 11 16 00-1334	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	31.09	8.13
22 11 16 00-1335	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	31.94	8.56
22 11 16 00-1336	EA	1" x 1" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	45.25	10.20
22 11 16 00-1337	EA	1" x 1-1/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	62.25	10.20
22 11 16 00-1338	EA	1-1/4" x 1" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	47.74	10.99
22 11 16 00-1339	EA	1-1/4" x 1-1/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	66.50	10.99
22 11 16 00-1340	EA	1-1/2" x 1-1/4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	70.40	12.20
22 11 16 00-1341	EA	1-1/2" x 1-1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	81.07	12.20
22 11 16 00-1342	EA	2" x 1-1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	92.03	12.44
22 11 16 00-1343	EA	2" x 2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	103.41	12.44
22 11 16 00-1344	EA	2-1/2" x 2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	114.51	17.05
22 11 16 00-1345	EA	2-1/2" x 2-1/2" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	154.47	17.05
22 11 16 00-1346	EA	3" x 3" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	227.05	19.66
22 11 16 00-1347	EA	3-1/2" x 4" Polypropylene, Heat Fusion, Hex MIP NPT Transition Piece	428.79	21.97
22 11 16 00-1348	Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Elbow (22 11 16 00-1078)			
22 11 16 00-1349	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	29.39	8.13
22 11 16 00-1350	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	25.04	8.13
22 11 16 00-1351	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	30.24	8.56
22 11 16 00-1352	EA	3/4" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	25.89	8.56
22 11 16 00-1353	EA	1" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	34.93	10.20
22 11 16 00-1354	EA	1" x 1" Polypropylene, Heat Fusion, Transition FIP NPT Elbow	51.85	10.20
22 11 16 00-1355	Polypropylene Random (PP-R), Heat Fusion, Transition Male/Female x FIP NPT Street Elbow (22 11 16 00-1078)			
22 11 16 00-1356	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition Male/Female x FIP NPT Street Elbow	25.04	8.13
22 11 16 00-1357	Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Elbow (22 11 16 00-1078)			
22 11 16 00-1358	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	27.22	8.13
22 11 16 00-1359	EA	1/2" x 3/4" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	28.62	8.13
22 11 16 00-1360	EA	3/4" x 3/4" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	29.47	8.56
22 11 16 00-1361	EA	1" x 3/4" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	36.54	10.20
22 11 16 00-1362	EA	1" x 1" Polypropylene, Heat Fusion, Transition MIP NPT Elbow	49.11	10.20
22 11 16 00-1363	Polypropylene Random (PP-R), Heat Fusion, Transition FIP NPT Tee (22 11 16 00-1078)			
22 11 16 00-1364	EA	1/2" x 1/2" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Tee	34.79	12.20
22 11 16 00-1365	EA	1/2" x 1/2" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Tee	38.24	12.20
22 11 16 00-1366	EA	3/4" x 3/4" x 1/2" Polypropylene, Heat Fusion, Transition FIP NPT Tee	36.00	12.81
22 11 16 00-1367	EA	3/4" x 3/4" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Tee	39.45	12.81
22 11 16 00-1368	EA	1" x 1" x 3/4" Polypropylene, Heat Fusion, Transition FIP NPT Tee	46.61	15.23
22 11 16 00-1369	EA	1" x 1" x 1" Polypropylene, Heat Fusion, Transition FIP NPT Tee	62.06	15.23
22 11 16 00-1370	EA	1-1/2" x 1-1/2" x 1" Polypropylene, Heat Fusion, Transition FIP NPT Tee	72.24	18.33
22 11 16 00-1371	Polypropylene Random (PP-R), Heat Fusion, Transition MIP NPT Tee (22 11 16 00-1078)			
22 11 16 00-1372	EA	1/2" x 1/2" x 1/2" Polypropylene, Heat Fusion, Transition MIP NPT Tee	37.11	12.20
22 11 16 00-1373	Polypropylene Random (PP-R), Heat Fusion, Transition PP-R x Brass Compression Fitting (22 11 16 00-1078)			
22 11 16 00-1374	EA	1/2" x 1/2" Polypropylene, Heat Fusion, Transition PP-R x Brass Compression Fitting	24.78	4.07
22 11 16 00-1375	Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x FIP NPT (22 11 16 00-1078)			
22 11 16 00-1376	EA	1/2" Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	21.90	
22 11 16 00-1377	EA	3/4" Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	27.76	
22 11 16 00-1378	EA	1" Polypropylene, Heat Fusion, Fusion Outlet x FIP NPT	37.97	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
22 11 16 00-1379	Polypropylene Random (PP-R), Heat Fusion, Fusion Outlet x MIP NPT (22 11 16 00-1078)				
22 11 16 00-1380	EA 1/2" Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT		25.27		
22 11 16 00-1381	EA 3/4" Polypropylene, Heat Fusion, Fusion Outlet x MIP NPT		34.00		
22 11 16 00-1382	Polypropylene Random (PP-R), Heat Fusion, PEX Adaptor (22 11 16 00-1078)				
22 11 16 00-1383	EA 1/2" Polypropylene, Heat Fusion, PEX Adaptor		17.89		4.07
22 11 16 00-1384	EA 3/4" Polypropylene, Heat Fusion, PEX Adaptor		26.29		4.25
22 11 16 00-1385	EA 1" Polypropylene, Heat Fusion, PEX Adaptor		34.31		5.09
22 11 16 00-1386	Polypropylene Random (PP-R), Heat Fusion, FIP Stop Valve Body (22 11 16 00-1078)				
22 11 16 00-1387	EA 1/2" Polypropylene, Heat Fusion, FIP Stop Valve Body		25.37		8.92
22 11 16 00-1388	EA 3/4" Polypropylene, Heat Fusion, FIP Stop Valve Body		26.34		9.41
22 11 16 00-1389	EA 1" Polypropylene, Heat Fusion, FIP Stop Valve Body		36.72		11.17
22 11 16 00-1390	EA 1-1/4" Polypropylene, Heat Fusion, FIP Stop Valve Body		54.94		12.08
22 11 16 00-1391	Polypropylene Random (PP-R), Heat Fusion, Inclined Check Valve (22 11 16 00-1078)				
22 11 16 00-1392	EA 1/2" Polypropylene, Heat Fusion, Inclined Check Valve		68.85		8.92
22 11 16 00-1393	EA 3/4" Polypropylene, Heat Fusion, Inclined Check Valve		69.82		9.41
22 11 16 00-1394	EA 1" Polypropylene, Heat Fusion, Inclined Check Valve		83.41		11.17
22 11 16 00-1395	EA 1-1/4" Polypropylene, Heat Fusion, Inclined Check Valve		135.11		12.08
22 11 16 00-1396	Polypropylene Random (PP-R), Heat Fusion, Ball Valve (22 11 16 00-1078)				
22 11 16 00-1397	EA 1/2" Polypropylene, Heat Fusion, Ball Valve		63.85		8.92
22 11 16 00-1398	EA 3/4" Polypropylene, Heat Fusion, Ball Valve		70.62		9.41
22 11 16 00-1399	EA 1" Polypropylene, Heat Fusion, Ball Valve		85.58		11.17
22 11 16 00-1400	EA 1-1/4" Polypropylene, Heat Fusion, Ball Valve		119.80		12.08
22 11 16 00-1401	EA 1-1/2" Polypropylene, Heat Fusion, Ball Valve		173.02		13.41
22 11 16 00-1402	EA 2" Polypropylene, Heat Fusion, Ball Valve		261.26		13.72
22 11 16 00-1403	Extension For Ball Valve (22 11 16 00-1078)				
22 11 16 00-1404	EA Extension For 1/2" to 3/4" Ball Valve, 1-3/8" Length		32.34		
22 11 16 00-1405	EA Extension For 1" to 1-1/4" Ball Valve, 1-3/8" Length		32.39		
22 11 16 00-1406	EA Extension For 1-1/2" to 2" Ball Valve, 1-3/4" Length		35.35		
22 11 16 00-1407	Polypropylene Random (PP-R), Heat Fusion, Draining Branch (22 11 16 00-1078)				
22 11 16 00-1408	EA 1/2" Polypropylene, Heat Fusion, Draining Branch		32.01		8.13
22 11 16 00-1409	EA 3/4" Polypropylene, Heat Fusion, Draining Branch		32.86		8.56
22 11 16 00-1410	EA 1" Polypropylene, Heat Fusion, Draining Branch		37.81		10.20
22 11 16 00-1411	EA 1-1/4" Polypropylene, Heat Fusion, Draining Branch		39.39		10.99
22 11 16 00-1412	EA 1-1/2" Polypropylene, Heat Fusion, Draining Branch		43.27		12.20
22 11 16 00-1413	EA 2" Polypropylene, Heat Fusion, Draining Branch		46.29		12.44
22 11 19	Domestic Water Piping Specialties (22 11)				
22 11 19 00-0001	Rubber Hose And Clamps (22 11 19)				
22 11 19 00-0002	General Purpose Hose (22 11 19 00-0001)				
Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.					
22 11 19 00-0003	LF 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		8.39		2.59
22 11 19 00-0004	LF 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		9.85		2.59
22 11 19 00-0005	LF 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		12.03		2.59
22 11 19 00-0006	LF 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		12.14		2.59
22 11 19 00-0007	LF 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		16.52		3.88
22 11 19 00-0008	LF 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		27.27		3.88
22 11 19 00-0009	LF 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		29.65		5.17
22 11 19 00-0010	LF 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp		56.72		5.17
22 11 19 00-0011	Reinforced EPDM Water Hose Assembly (22 11 19 00-0001)				
Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.					
22 11 19 00-0012	LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement		75.20		5.17
22 11 19 00-0013	LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement		88.73		5.17
22 11 19 00-0014	LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement		124.74		6.37
22 11 19 00-0015	LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement		175.18		8.60
22 11 19 00-0016	Chemical Resistant Rubber Hoses (22 11 19 00-0001)				

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0017	EA		50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,382.45	314.66
22 11 19 00-0018	EA		50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	1,875.90	314.66
22 11 19 00-0019			Water Pump Hose (22 11 19 00-0001)		
22 11 19 00-0020	EA		2" Inside Diameter, 20' Rubber Discharge Hose	643.36	79.03
22 11 19 00-0021	EA		2" Inside Diameter, 20' Rubber Intake Hose	680.90	79.03
22 11 19 00-0022			Barbed Hose x Threaded Male Pipe, Steel Coupling (22 11 19 00-0001)		
22 11 19 00-0023	EA		3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	32.06	10.86
22 11 19 00-0024	EA		1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	34.02	11.64
22 11 19 00-0025	EA		5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	36.42	12.42
22 11 19 00-0026	EA		3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	41.37	13.97
22 11 19 00-0027	EA		1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	49.57	17.08
22 11 19 00-0028	EA		1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	58.76	20.44
22 11 19 00-0029	EA		1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	75.77	26.91
22 11 19 00-0030	EA		2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	95.36	33.64
22 11 19 00-0031			Worm-Drive Hose Clamp (22 11 19 00-0001)		
22 11 19 00-0032	EA		3/8" To 1" Diameter Worm Drive Hose Clamp	13.68	3.88
22 11 19 00-0033	EA		1/2" To 1-1/6" Diameter Worm Drive Hose Clamp	14.47	3.88
22 11 19 00-0034	EA		5/8" To 1-1/2" Diameter Worm Drive Hose Clamp	15.31	3.88
22 11 19 00-0035	EA		3/4" To 2" Diameter Worm Drive Hose Clamp	16.30	3.88
22 11 19 00-0036	EA		1" To 2-1/2" Diameter Worm Drive Hose Clamp	17.42	3.88
22 11 19 00-0037	EA		1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp	18.86	5.17
22 11 19 00-0038	EA		1-1/2" To 3" Diameter Worm Drive Hose Clamp	20.36	5.17
22 11 19 00-0039			Trap Primer And Accessories (22 11 19)		
22 11 19 00-0040			Trap Primer (22 11 19 00-0039)		
22 11 19 00-0041	EA		1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	345.04	19.52
22 11 19 00-0042	EA		1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500)	211.43	13.01
22 11 19 00-0043	EA		1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500)	204.70	13.01
22 11 19 00-0044			Trap Primer Distribution Unit (22 11 19 00-0039)		
22 11 19 00-0045	EA		Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)	174.88	26.03
			Note: Can be used for two, three or four drains.		
22 11 19 00-0046	EA		Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)	193.01	26.03
			Note: Can be used for two, three or four drains.		
22 11 19 00-0047			Trap Primer Manifold (22 11 19 00-0039)		
22 11 19 00-0048	EA		Two Outlet Trap Primer Manifold	276.64	35.00
22 11 19 00-0049	EA		Four Outlet Trap Primer Manifold	419.80	39.81
22 11 19 00-0050	EA		Six Outlet Trap Primer Manifold	559.87	42.15
22 11 19 00-0051	EA		Eight Outlet Trap Primer Manifold	704.66	49.44
22 11 19 00-0052			Brass, Anti Siphon Vacuum Breakers (22 11 19)		
			Note: Watts 288A		
22 11 19 00-0053	EA		1/2" Brass, Anti Siphon Vacuum Breaker	122.45	32.53
22 11 19 00-0054	EA		3/4" Brass, Anti Siphon Vacuum Breaker	140.82	36.43
22 11 19 00-0055	EA		1" Brass, Anti Siphon Vacuum Breaker	291.65	41.64
22 11 19 00-0056	EA		1-1/4" Brass, Anti Siphon Vacuum Breaker	465.64	48.14
22 11 19 00-0057	EA		1-1/2" Brass, Anti Siphon Vacuum Breaker	556.30	53.35
22 11 19 00-0058	EA		2" Brass, Anti Siphon Vacuum Breaker	815.53	65.05
22 11 19 00-0059	EA		2-1/2" Brass, Anti Siphon Vacuum Breaker	2,147.00	81.32
22 11 19 00-0060			Anti Siphon Pressure Vacuum Breakers (22 11 19)		
			Note: Watts 800M4QT		
22 11 19 00-0061	EA		1/2" Anti Siphon Pressure Type Vacuum Breaker	365.58	32.53
22 11 19 00-0062	EA		3/4" Anti Siphon Pressure Type Vacuum Breaker	318.88	36.43
22 11 19 00-0063	EA		1" Anti Siphon Pressure Type Vacuum Breaker	457.02	41.64
22 11 19 00-0064	EA		1-1/4" Anti Siphon Pressure Type Vacuum Breaker	829.46	48.14
22 11 19 00-0065	EA		1-1/2" Anti Siphon Pressure Type Vacuum Breaker	1,010.33	53.35
22 11 19 00-0066	EA		2" Anti Siphon Pressure Type Vacuum Breaker	1,018.91	65.05
22 11 19 00-0067			Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0068	EA		Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005)	278.62	15.56
22 11 19 00-0069	EA		>11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010)	542.14	18.83
22 11 19 00-0070	EA		>32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020)	790.98	18.83



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
22 11 19 00-0071	EA	>60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030)	1,927.02	18.83
22 11 19 00-0072	EA	>113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040)	2,164.03	18.83
22 11 19 00-0073	EA	>154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050)	2,651.33	18.83
22 11 19 00-0074		Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0075		Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0074)		
22 11 19 00-0076	EA	Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A)	203.24	8.68
22 11 19 00-0077	EA	>11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B)	391.79	10.00
22 11 19 00-0078	EA	>32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C)	583.12	10.84
22 11 19 00-0079	EA	>60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D)	1,437.22	13.99
22 11 19 00-0080	EA	>113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E)	1,750.40	17.35
22 11 19 00-0081	EA	>154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F)	1,992.01	18.83
22 11 19 00-0082		Escutcheons (22 11 19)		
22 11 19 00-0083		Brass Escutcheons (22 11 19 00-0082)		
22 11 19 00-0084		Shallow Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0085	EA	3/8" IPS, Antique Or Polished Brass Shallow Escutcheon	14.14	3.25
22 11 19 00-0086	EA	1/2" IPS, Antique Or Polished Brass Shallow Escutcheon	15.19	3.25
22 11 19 00-0087		Deep Bell Brass Escutcheons (22 11 19 00-0083)		
22 11 19 00-0088	EA	3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon	16.56	3.64
22 11 19 00-0089	EA	1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon	16.60	3.64
22 11 19 00-0090		Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0083)		
22 11 19 00-0091	EA	3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.25	3.25
22 11 19 00-0092	EA	1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.50	3.25
22 11 19 00-0093	EA	5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	24.87	3.25
22 11 19 00-0094	EA	3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.23	3.25
22 11 19 00-0095	EA	7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	26.64	3.91
22 11 19 00-0096	EA	1" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.97	3.91
22 11 19 00-0097	EA	1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.99	4.29
22 11 19 00-0098	EA	1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	30.31	4.55
22 11 19 00-0099	EA	2" IPS, Chrome Plated Brass Escutcheon With Setscrew	43.46	5.21
22 11 19 00-0100		Plastic Escutcheons (22 11 19 00-0082)		
22 11 19 00-0101		Split-Ring White Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0102	EA	3/8" IPS, Split-Ring White Plastic Escutcheon	7.97	3.24
22 11 19 00-0103	EA	1/2" IPS, Split-Ring White Plastic Escutcheon	7.97	3.24
22 11 19 00-0104	EA	3/4" IPS, Split-Ring White Plastic Escutcheon	9.31	3.62
22 11 19 00-0105	EA	1" IPS, Split-Ring White Plastic Escutcheon	10.10	3.88
22 11 19 00-0106	EA	1-1/4" IPS, Split-Ring White Plastic Escutcheon	10.87	4.26
22 11 19 00-0107	EA	1-1/2" IPS, Split-Ring White Plastic Escutcheon	11.60	4.53
22 11 19 00-0108	EA	2" IPS, Split-Ring White Plastic Escutcheon	13.08	5.17
22 11 19 00-0109	EA	2-1/2" IPS, Split-Ring White Plastic Escutcheon	16.86	5.56
22 11 19 00-0110	EA	3" IPS, Split-Ring White Plastic Escutcheon	20.65	5.82
22 11 19 00-0111	EA	4" IPS, Split-Ring White Plastic Escutcheon	25.08	6.47
22 11 19 00-0112		Chrome Plate Plastic Escutcheons (22 11 19 00-0100)		
22 11 19 00-0113	EA	1/2" IPS, Chrome Plate Plastic Escutcheon	10.54	3.24
22 11 19 00-0114	EA	3/4" IPS, Chrome Plate Plastic Escutcheon	11.51	3.62
22 11 19 00-0115	EA	1" IPS, Chrome Plate Plastic Escutcheon	12.94	3.88
22 11 19 00-0116	EA	1-1/4" IPS, Chrome Plate Plastic Escutcheon	14.35	4.26
22 11 19 00-0117	EA	1-1/2" IPS, Chrome Plate Plastic Escutcheon	15.10	4.53
22 11 19 00-0118	EA	2" IPS, Chrome Plate Plastic Escutcheon	19.04	5.17
22 11 19 00-0119	EA	2-1/2" IPS, Chrome Plate Plastic Escutcheon	27.60	5.56
22 11 19 00-0120	EA	3" IPS, Chrome Plate Plastic Escutcheon	28.58	5.82
22 11 19 00-0121	EA	4" IPS, Chrome Plate Plastic Escutcheon	30.54	6.47
22 11 19 00-0122		Stainless Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0123		Shallow Stainless Steel Escutcheons (22 11 19 00-0122)		
22 11 19 00-0124	EA	3/8" IPS, Shallow Stainless Steel Escutcheon	19.71	3.25

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0125	EA	1/2" IPS, Shallow Stainless Steel Escutcheon	19.71	3.25
22 11 19 00-0126	EA	3/4" IPS, Shallow Stainless Steel Escutcheon	27.93	3.64
22 11 19 00-0127		Chrome Plated Steel Escutcheons (22 11 19 00-0082)		
22 11 19 00-0128		Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0129	EA	1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.24	3.24
22 11 19 00-0130	EA	3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.88	3.62
22 11 19 00-0131	EA	1" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.69	3.88
22 11 19 00-0132	EA	1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	9.33	4.26
22 11 19 00-0133	EA	1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	9.97	4.53
22 11 19 00-0134	EA	2" IPS, Split-Ring Chrome Plated Steel Escutcheon	11.50	5.17
22 11 19 00-0135	EA	2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	17.33	5.56
22 11 19 00-0136	EA	3" IPS, Split-Ring Chrome Plated Steel Escutcheon	18.40	5.82
22 11 19 00-0137	EA	3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	22.67	6.21
22 11 19 00-0138	EA	4" IPS, Split-Ring Chrome Plated Steel Escutcheon	20.08	6.47
22 11 19 00-0139	EA	5" IPS, Split-Ring Chrome Plated Steel Escutcheon	25.89	7.11
22 11 19 00-0140	EA	6" IPS, Split-Ring Chrome Plated Steel Escutcheon	30.20	7.77
22 11 19 00-0141		Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0142	EA	3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.59	3.24
22 11 19 00-0143	EA	1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.59	3.24
22 11 19 00-0144	EA	3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	12.39	3.62
22 11 19 00-0145	EA	1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.25	3.88
22 11 19 00-0146	EA	1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	14.83	4.26
22 11 19 00-0147	EA	1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	15.68	4.53
22 11 19 00-0148	EA	2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	18.60	5.17
22 11 19 00-0149	EA	2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	21.39	5.56
22 11 19 00-0150	EA	3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	26.14	5.82
22 11 19 00-0151	EA	3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	32.13	6.21
22 11 19 00-0152	EA	4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	32.62	6.47
22 11 19 00-0153	EA	5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	53.85	7.11
22 11 19 00-0154	EA	6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	56.22	7.77
22 11 19 00-0155		Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0156	EA	3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.88	3.64
22 11 19 00-0157	EA	1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.76	3.64
22 11 19 00-0158	EA	3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.49	3.64
22 11 19 00-0159	EA	1" IPS, Deep Bell Chrome Plated Steel Escutcheon	9.43	3.91
22 11 19 00-0160	EA	1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon	10.24	4.29
22 11 19 00-0161	EA	1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon	11.25	4.55
22 11 19 00-0162		Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0127)		
22 11 19 00-0163	EA	3/8" IPS, Shallow Chrome Plated Steel Escutcheon	7.98	3.25
22 11 19 00-0164	EA	1/2" IPS, Shallow Chrome Plated Steel Escutcheon	7.98	3.25
22 11 19 00-0165	EA	3/4" IPS, Shallow Chrome Plated Steel Escutcheon	8.11	3.25
22 11 19 00-0166	EA	1" IPS, Shallow Chrome Plated Steel Escutcheon	8.67	3.91
22 11 19 00-0167	EA	1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon	9.38	4.29
22 11 19 00-0168	EA	1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon	10.38	4.55
22 11 19 00-0169	EA	2" IPS, Shallow Chrome Plated Steel Escutcheon	11.78	5.21
22 11 19 00-0170		Wall Hydrants (22 11 19)		
		Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0171		Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker		
		Wall Hydrants (22 11 19 00-0170)		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0172	EA	6" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	795.89	32.53
		For Cast Bronze Box, Add	39.84	
		For 1" NPT Outlet, Add	93.91	
22 11 19 00-0173	EA	12" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	841.07	39.04
		For Cast Bronze Box, Add	39.84	
		For 1" NPT Outlet, Add	93.91	
22 11 19 00-0174	EA	18" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	867.71	46.97
		For Cast Bronze Box, Add	39.84	
		For 1" NPT Outlet, Add	93.91	
22 11 19 00-0175		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants		
		(22 11 19 00-0170)		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0176	EA	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	816.05	54.65
		For Cast Bronze Box, Add	39.84	
		For 1" NPT Outlet, Add	93.91	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
22 11 19 00-0177 Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0170)				
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.				
22 11 19 00-0178	EA 3" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	446.82		40.34
	For 1" NPT Outlet, Add	93.91		
22 11 19 00-0179	EA 4" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	547.71		40.34
	For 1" NPT Outlet, Add	93.91		
22 11 19 00-0180	EA 6" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	547.71		40.34
	For 1" NPT Outlet, Add	93.91		
22 11 19 00-0181	EA 8" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	547.71		40.34
	For 1" NPT Outlet, Add	93.91		
22 11 19 00-0182	EA 10" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	571.19		81.32
	For 1" NPT Outlet, Add	93.91		
22 11 19 00-0183	EA 12" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	571.19		81.32
	For 1" NPT Outlet, Add	93.91		
22 11 19 00-0184	EA 18" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	641.42		81.32
	For 1" NPT Outlet, Add	93.91		
22 11 19 00-0185 Stainless Steel Box Type Wall Hydrants (22 11 19 00-0170)				
Note: With 3/4" NPT female and 3/4" NPT male inlet connection.				
22 11 19 00-0186	EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	404.41		32.53
22 11 19 00-0187	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141)	439.61		32.53
22 11 19 00-0188	EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	444.41		32.53
22 11 19 00-0189	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151)	497.21		32.53
22 11 19 00-0190	EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	696.49		45.54
	Note: Includes hot and cold hose connections.			
22 11 19 00-0191	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146)	717.28		45.54
	Note: Includes hot and cold hose connections.			
22 11 19 00-0192	EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	717.28		45.54
	Note: Includes hot and cold hose connections.			
22 11 19 00-0193	EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156)	766.88		45.54
	Note: Includes hot and cold hose connections.			
22 11 19 00-0194 Washer Boxes And Dryer Outlets (22 11 19)				
22 11 19 00-0195 Dryer Vent Kit (22 11 19 00-0194)				
Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.				
22 11 19 00-0196	EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps.....	89.19		16.91
22 11 19 00-0197 Washer Boxes And Dryer Vents (22 11 19 00-0194)				
Note: Includes 1/2" supply valves and mounting brackets.				
22 11 19 00-0198	EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	315.83		26.03
22 11 19 00-0199 Ice Maker Outlet Box (22 11 19)				
Note: Includes one 1/2" quarter turn ball valve and connections wall mount.				
22 11 19 00-0200	EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	168.38		26.03
22 11 19 00-0201	EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	171.42		26.03
22 11 19 00-0202	EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	250.63		26.03
22 11 19 00-0203 Tempering Controllers For Potable Hot Water (22 11 19)				
22 11 19 00-0204 Point-Of-Use Thermostatic Mixing Valves (Bradley) (22 11 19 00-0203)				
Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.				
22 11 19 00-0205	EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	596.08		31.50
22 11 19 00-0206	EA 1/4" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	150.96		31.50
22 11 19 00-0207	EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	336.92		31.50
22 11 19 00-0208	EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	385.64		42.44
22 11 19 00-0209 Thermostatic Mixing Valves (Bradley) (22 11 19 00-0203)				
Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.				
22 11 19 00-0210	EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,626.10		45.44
22 11 19 00-0211	EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,824.29		55.96
22 11 19 00-0212	EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	2,193.57		65.09
22 11 19 00-0213	EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	2,846.44		68.41
22 11 19 00-0214	EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,822.06		88.76
22 11 19 00-0215 High Low Temperature Thermostatic Mixing Valves (Bradley) (22 11 19 00-0203)				
Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.				
22 11 19 00-0216	EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	4,153.86		69.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0217 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	5,408.24	81.37
22 11 19 00-0218 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	6,309.07	85.52
22 11 19 00-0219 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200).....	6,986.54	110.95
22 11 19 00-0220 Thermostatic Mixing Valves (Leonard) (22 11 19 00-0203) Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0221 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	1,178.61	45.44
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0222 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,387.21	55.95
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0223 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,705.54	65.09
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0224 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	2,087.26	68.44
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0225 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	3,103.18	88.76
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0226 Water Mixing/Self Operating Temperature Regulator (22 11 19 00-0203) Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0227 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,427.01	65.05
22 11 19 00-0228 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,630.77	81.97
22 11 19 00-0229 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,998.82	98.88
22 11 19 00-0230 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,401.59	115.80
22 11 19 00-0231 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	5,234.42	152.23
22 11 19 00-0232 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	6,180.06	173.64
22 11 19 00-0233 Thermostatic Mixing Valves (Holby) (22 11 19 00-0203)		
22 11 19 00-0234 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	5,537.50	88.79
22 11 19 00-0235 Backflow Preventer Valves (22 11 19)		
22 11 19 00-0236 Double Check Valve Backflow Preventer Assemblies (22 11 19 00-0235)		
22 11 19 00-0237 Threaded Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0238 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0237) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0239 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	502.27	34.87
For Work In Restricted Working Space, Add	26.15	
For Owner Furnished Material, Deduct	-415.09	
22 11 19 00-0240 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	592.21	49.44
For Work In Restricted Working Space, Add	37.08	
For Owner Furnished Material, Deduct	-468.60	
22 11 19 00-0241 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	682.60	60.37
For Work In Restricted Working Space, Add	45.28	
For Owner Furnished Material, Deduct	-531.67	
22 11 19 00-0242 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	956.75	70.26
For Work In Restricted Working Space, Add	52.70	
For Owner Furnished Material, Deduct	-781.10	
22 11 19 00-0243 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,185.30	80.67
For Work In Restricted Working Space, Add	60.11	
For Owner Furnished Material, Deduct	-984.92	
22 11 19 00-0244 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,364.45	104.09
For Work In Restricted Working Space, Add	78.07	
For Owner Furnished Material, Deduct	-1,104.22	
22 11 19 00-0245 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0237) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0246 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	621.05	34.87
For Work In Restricted Working Space, Add	26.15	
For Owner Furnished Material, Deduct	-533.87	
22 11 19 00-0247 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	766.17	49.44
For Work In Restricted Working Space, Add	37.08	
For Owner Furnished Material, Deduct	-642.56	
22 11 19 00-0248 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	895.87	60.37
For Work In Restricted Working Space, Add	45.28	
For Owner Furnished Material, Deduct	-744.94	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0249	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,260.63	70.26
			For Work In Restricted Working Space, Add	52.70	
			For Owner Furnished Material, Deduct	-1,084.98	
22 11 19 00-0250	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,543.21	80.67
			For Work In Restricted Working Space, Add	60.11	
			For Owner Furnished Material, Deduct	-1,342.83	
22 11 19 00-0251	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,858.59	104.09
			For Work In Restricted Working Space, Add	78.07	
			For Owner Furnished Material, Deduct	-1,598.36	
22 11 19 00-0252			Flanged Double Check Valve Assemblies (22 11 19 00-0236)		
22 11 19 00-0253			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0252)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0254	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	6,808.04	287.59
			For Work In Restricted Working Space, Add	115.04	
			For Owner Furnished Material, Deduct	-6,424.58	
22 11 19 00-0255	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)	7,480.26	323.54
			For Work In Restricted Working Space, Add	127.62	
			For Owner Furnished Material, Deduct	-7,054.86	
22 11 19 00-0256			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0252)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0257	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	7,461.06	287.59
			For Work In Restricted Working Space, Add	115.04	
			For Owner Furnished Material, Deduct	-7,077.60	
22 11 19 00-0258	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY)	8,568.62	323.54
			For Work In Restricted Working Space, Add	127.62	
			For Owner Furnished Material, Deduct	-8,143.22	
22 11 19 00-0259			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0252)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0260	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,855.13	287.59
			For Work In Restricted Working Space, Add	115.03	
			For Owner Furnished Material, Deduct	-6,471.69	
22 11 19 00-0261	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	5,222.90	323.54
			For Work In Restricted Working Space, Add	127.63	
			For Owner Furnished Material, Deduct	-4,797.48	
22 11 19 00-0262	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)	8,177.69	479.32
			For Work In Restricted Working Space, Add	191.63	
			For Owner Furnished Material, Deduct	-7,538.93	
22 11 19 00-0263	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	12,398.13	695.88
			For Work In Restricted Working Space, Add	377.12	
			For Owner Furnished Material, Deduct	-11,141.06	
22 11 19 00-0264	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	28,379.87	1,043.81
			For Work In Restricted Working Space, Add	565.77	
			For Owner Furnished Material, Deduct	-26,493.97	
22 11 19 00-0265	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	36,461.14	1,234.62
			For Work In Restricted Working Space, Add	673.43	
			For Owner Furnished Material, Deduct	-34,216.38	
22 11 19 00-0266			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer (22 11 19 00-0252)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0267	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	9,556.77	479.32
			For Work In Restricted Working Space, Add	191.61	
			For Owner Furnished Material, Deduct	-8,918.07	
22 11 19 00-0268	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	15,863.85	695.88
			For Work In Restricted Working Space, Add	377.12	
			For Owner Furnished Material, Deduct	-14,606.78	
22 11 19 00-0269	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	42,373.67	1,234.62
			For Work In Restricted Working Space, Add	673.43	
			For Owner Furnished Material, Deduct	-40,128.91	
22 11 19 00-0270			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0252)		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0271	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	7,282.35	287.59
			For Work In Restricted Working Space, Add	115.03	
			For Owner Furnished Material, Deduct	-6,898.91	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0272 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	8,001.69 127.62 -7,576.29	323.54
22 11 19 00-0273 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	8,677.95 191.61 -8,039.25	479.32
22 11 19 00-0274 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	14,525.33 377.12 -13,268.26	695.88
22 11 19 00-0275 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	30,146.18 565.68 -28,260.57	1,043.81
22 11 19 00-0276 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	38,740.57 673.43 -36,495.81	1,234.62
22 11 19 00-0277 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0278 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	4,330.94 115.03 -3,947.50	287.59
22 11 19 00-0279 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	4,767.88 127.62 -4,342.48	323.54
22 11 19 00-0280 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	5,376.16 191.61 -4,737.46	479.32
22 11 19 00-0281 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	8,664.75 377.12 -7,407.68	695.88
22 11 19 00-0282 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	16,531.22 565.68 -14,645.61	1,043.81
22 11 19 00-0283 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	17,916.60 673.43 -15,671.84	1,234.62
22 11 19 00-0284 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs ^(22 11 19 00-0252) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0285 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	5,731.60 115.03 -5,348.16	287.59
22 11 19 00-0286 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	6,168.54 127.62 -5,743.14	323.54
22 11 19 00-0287 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	7,716.70 191.61 -7,078.00	479.32
22 11 19 00-0288 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	12,582.93 377.12 -11,325.86	695.88
22 11 19 00-0289 EA 8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	22,338.36 565.68 -20,452.75	1,043.81
22 11 19 00-0290 EA 10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	26,582.31 673.43 -24,337.55	1,234.62
22 11 19 00-0291 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves ^(22 11 19 00-0252) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0292 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	4,052.36 115.03 -3,668.92	287.59
22 11 19 00-0293 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	4,501.96 127.62 -4,076.56	323.54
22 11 19 00-0294 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series) For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	5,122.75 191.61 -4,484.05	479.32



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0295	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	8,465.68	695.88
			For Work In Restricted Working Space, Add	377.12	
			For Owner Furnished Material, Deduct	-7,208.61	
22 11 19 00-0296	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)	16,339.37	1,043.81
			For Work In Restricted Working Space, Add	565.68	
			For Owner Furnished Material, Deduct	-14,453.76	
22 11 19 00-0297	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)	18,452.25	1,234.62
			For Work In Restricted Working Space, Add	673.43	
			For Owner Furnished Material, Deduct	-16,207.49	
22 11 19 00-0298 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0252)					
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).					
22 11 19 00-0299	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	5,335.57	287.59
			For Work In Restricted Working Space, Add	115.03	
			For Owner Furnished Material, Deduct	-4,952.13	
22 11 19 00-0300	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	5,772.50	323.54
			For Work In Restricted Working Space, Add	127.62	
			For Owner Furnished Material, Deduct	-5,347.10	
22 11 19 00-0301	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	7,321.16	479.32
			For Work In Restricted Working Space, Add	191.61	
			For Owner Furnished Material, Deduct	-6,682.46	
22 11 19 00-0302	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	12,161.64	695.88
			For Work In Restricted Working Space, Add	377.12	
			For Owner Furnished Material, Deduct	-10,904.57	
22 11 19 00-0303	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	21,700.69	1,043.81
			For Work In Restricted Working Space, Add	565.68	
			For Owner Furnished Material, Deduct	-19,815.08	
22 11 19 00-0304	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series)	25,942.77	1,234.62
			For Work In Restricted Working Space, Add	673.43	
			For Owner Furnished Material, Deduct	-23,698.01	
22 11 19 00-0305 Double Check Valve Assemblies With Butterfly Shut-Off Valves (22 11 19 00-0252)					
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).					
22 11 19 00-0306	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	4,711.22	287.59
			For Work In Restricted Working Space, Add	115.03	
			For Owner Furnished Material, Deduct	-4,327.78	
22 11 19 00-0307	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,148.16	323.54
			For Work In Restricted Working Space, Add	127.62	
			For Owner Furnished Material, Deduct	-4,722.76	
22 11 19 00-0308	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	5,756.44	479.32
			For Work In Restricted Working Space, Add	191.61	
			For Owner Furnished Material, Deduct	-5,117.74	
22 11 19 00-0309	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	9,054.61	695.88
			For Work In Restricted Working Space, Add	377.12	
			For Owner Furnished Material, Deduct	-7,797.54	
22 11 19 00-0310	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	16,921.08	1,043.81
			For Work In Restricted Working Space, Add	565.68	
			For Owner Furnished Material, Deduct	-15,035.47	
22 11 19 00-0311 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0252)					
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).					
22 11 19 00-0312	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series)	6,111.88	287.59
			For Work In Restricted Working Space, Add	115.03	
			For Owner Furnished Material, Deduct	-5,728.44	
22 11 19 00-0313	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	6,548.81	323.54
			For Work In Restricted Working Space, Add	127.62	
			For Owner Furnished Material, Deduct	-6,123.41	
22 11 19 00-0314	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	8,096.98	479.32
			For Work In Restricted Working Space, Add	191.61	
			For Owner Furnished Material, Deduct	-7,458.28	
22 11 19 00-0315	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	12,972.87	695.88
			For Work In Restricted Working Space, Add	377.12	
			For Owner Furnished Material, Deduct	-11,715.80	
22 11 19 00-0316	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	16,921.08	1,043.81
			For Work In Restricted Working Space, Add	565.68	
			For Owner Furnished Material, Deduct	-15,035.47	
22 11 19 00-0317 Grooved Double Check Valve Assemblies (22 11 19 00-0236)					
22 11 19 00-0318 Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317)					
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).					
22 11 19 00-0319	EA		2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	4,052.36	153.39
			For Work In Restricted Working Space, Add	115.03	
			For Owner Furnished Material, Deduct	-3,668.92	

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MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 11 19 00-0320	EA	3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	4,501.96		170.16
		<i>For Work In Restricted Working Space, Add</i>	127.62		
		<i>For Owner Furnished Material, Deduct</i>	-4,076.56		
22 11 19 00-0321		N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0317)			
		Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).			
22 11 19 00-0322	EA	2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series)	5,335.57		153.39
		<i>For Work In Restricted Working Space, Add</i>	115.03		
		<i>For Owner Furnished Material, Deduct</i>	-4,952.13		
22 11 19 00-0323	EA	3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	5,772.50		170.16
		<i>For Work In Restricted Working Space, Add</i>	127.62		
		<i>For Owner Furnished Material, Deduct</i>	-5,347.10		
22 11 19 00-0324		Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0235)			
22 11 19 00-0325		Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0324)			
22 11 19 00-0326		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325)			
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).			
22 11 19 00-0327	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	558.26		30.19
		<i>For Work In Restricted Working Space, Add</i>	22.64		
		<i>For Owner Furnished Material, Deduct</i>	-482.79		
22 11 19 00-0328	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	589.50		33.31
		<i>For Work In Restricted Working Space, Add</i>	24.98		
		<i>For Owner Furnished Material, Deduct</i>	-506.23		
22 11 19 00-0329	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	686.85		34.87
		<i>For Work In Restricted Working Space, Add</i>	26.15		
		<i>For Owner Furnished Material, Deduct</i>	-599.67		
22 11 19 00-0330	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	922.26		49.44
		<i>For Work In Restricted Working Space, Add</i>	37.08		
		<i>For Owner Furnished Material, Deduct</i>	-798.65		
22 11 19 00-0331	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,094.12		60.37
		<i>For Work In Restricted Working Space, Add</i>	45.28		
		<i>For Owner Furnished Material, Deduct</i>	-943.19		
22 11 19 00-0332	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,655.23		70.26
		<i>For Work In Restricted Working Space, Add</i>	52.70		
		<i>For Owner Furnished Material, Deduct</i>	-1,479.58		
22 11 19 00-0333	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,749.55		80.67
		<i>For Work In Restricted Working Space, Add</i>	60.11		
		<i>For Owner Furnished Material, Deduct</i>	-1,549.17		
22 11 19 00-0334	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	2,098.56		104.09
		<i>For Work In Restricted Working Space, Add</i>	78.07		
		<i>For Owner Furnished Material, Deduct</i>	-1,838.33		
22 11 19 00-0335		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0325)			
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).			
22 11 19 00-0336	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	616.70		30.19
		<i>For Work In Restricted Working Space, Add</i>	22.64		
		<i>For Owner Furnished Material, Deduct</i>	-541.23		
22 11 19 00-0337	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	651.09		33.31
		<i>For Work In Restricted Working Space, Add</i>	24.98		
		<i>For Owner Furnished Material, Deduct</i>	-567.82		
22 11 19 00-0338	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	771.26		49.44
		<i>For Work In Restricted Working Space, Add</i>	26.15		
		<i>For Owner Furnished Material, Deduct</i>	-684.08		
22 11 19 00-0339	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,054.92		49.44
		<i>For Work In Restricted Working Space, Add</i>	37.08		
		<i>For Owner Furnished Material, Deduct</i>	-931.31		
22 11 19 00-0340	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,259.99		60.37
		<i>For Work In Restricted Working Space, Add</i>	45.28		
		<i>For Owner Furnished Material, Deduct</i>	-1,109.06		
22 11 19 00-0341	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,881.44		70.26
		<i>For Work In Restricted Working Space, Add</i>	52.70		
		<i>For Owner Furnished Material, Deduct</i>	-1,705.79		
22 11 19 00-0342	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,068.78		80.67
		<i>For Work In Restricted Working Space, Add</i>	60.11		
		<i>For Owner Furnished Material, Deduct</i>	-1,868.40		
22 11 19 00-0343	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,490.22		104.09
		<i>For Work In Restricted Working Space, Add</i>	78.07		
		<i>For Owner Furnished Material, Deduct</i>	-2,229.99		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0344 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0345 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	922.26	49.44
For Work In Restricted Working Space, Add	37.08	
For Owner Furnished Material, Deduct	-798.65	
22 11 19 00-0346 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,094.12	60.37
For Work In Restricted Working Space, Add	45.28	
For Owner Furnished Material, Deduct	-943.19	
22 11 19 00-0347 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,655.23	70.26
For Work In Restricted Working Space, Add	52.70	
For Owner Furnished Material, Deduct	-1,479.58	
22 11 19 00-0348 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,749.55	80.67
For Work In Restricted Working Space, Add	60.11	
For Owner Furnished Material, Deduct	-1,549.17	
22 11 19 00-0349 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	2,098.56	104.09
For Work In Restricted Working Space, Add	78.07	
For Owner Furnished Material, Deduct	-1,838.33	
22 11 19 00-0350 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0351 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,054.92	49.44
For Work In Restricted Working Space, Add	37.08	
For Owner Furnished Material, Deduct	-931.31	
22 11 19 00-0352 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,259.99	60.37
For Work In Restricted Working Space, Add	45.28	
For Owner Furnished Material, Deduct	-1,109.06	
22 11 19 00-0353 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,881.44	70.26
For Work In Restricted Working Space, Add	52.70	
For Owner Furnished Material, Deduct	-1,705.79	
22 11 19 00-0354 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	2,068.78	80.67
For Work In Restricted Working Space, Add	60.11	
For Owner Furnished Material, Deduct	-1,868.40	
22 11 19 00-0355 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	2,490.22	104.09
For Work In Restricted Working Space, Add	78.07	
For Owner Furnished Material, Deduct	-2,229.99	
22 11 19 00-0356 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0357 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,907.54	49.44
For Work In Restricted Working Space, Add	37.08	
For Owner Furnished Material, Deduct	-1,783.93	
22 11 19 00-0358 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	2,257.71	60.37
For Work In Restricted Working Space, Add	45.28	
For Owner Furnished Material, Deduct	-2,106.78	
22 11 19 00-0359 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,476.22	70.26
For Work In Restricted Working Space, Add	52.70	
For Owner Furnished Material, Deduct	-3,300.57	
22 11 19 00-0360 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,757.73	80.67
For Work In Restricted Working Space, Add	60.11	
For Owner Furnished Material, Deduct	-3,557.35	
22 11 19 00-0361 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	4,358.16	104.09
For Work In Restricted Working Space, Add	78.07	
For Owner Furnished Material, Deduct	-4,097.93	
22 11 19 00-0362 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0325) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0363 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,570.66	49.44
For Work In Restricted Working Space, Add	37.08	
For Owner Furnished Material, Deduct	-2,447.05	
22 11 19 00-0364 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	3,055.67	60.37
For Work In Restricted Working Space, Add	45.28	
For Owner Furnished Material, Deduct	-2,904.74	
22 11 19 00-0365 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,660.70	70.26
For Work In Restricted Working Space, Add	52.70	
For Owner Furnished Material, Deduct	-4,485.05	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0366 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	5,090.87	80.67
For Work In Restricted Working Space, Add	60.11	
For Owner Furnished Material, Deduct	-4,890.49	
22 11 19 00-0367 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	6,046.29	104.09
For Work In Restricted Working Space, Add	78.07	
For Owner Furnished Material, Deduct	-5,786.06	
22 11 19 00-0368 Flanged Reduced Pressure Zone Assemblies (22 11 19 00-0324)		
22 11 19 00-0369 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0368)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0370 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	6,260.61	287.59
For Work In Restricted Working Space, Add	115.04	
For Owner Furnished Material, Deduct	-5,877.15	
22 11 19 00-0371 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	7,054.66	323.54
For Work In Restricted Working Space, Add	127.62	
For Owner Furnished Material, Deduct	-6,629.26	
22 11 19 00-0372 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer (22 11 19 00-0368)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0373 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	7,465.93	287.59
For Work In Restricted Working Space, Add	115.04	
For Owner Furnished Material, Deduct	-7,082.47	
22 11 19 00-0374 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	8,454.91	323.54
For Work In Restricted Working Space, Add	127.62	
For Owner Furnished Material, Deduct	-8,029.51	
22 11 19 00-0375 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0368)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0376 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	6,721.95	287.59
For Work In Restricted Working Space, Add	115.04	
For Owner Furnished Material, Deduct	-6,338.49	
22 11 19 00-0377 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	7,821.38	323.54
For Work In Restricted Working Space, Add	127.62	
For Owner Furnished Material, Deduct	-7,395.98	
22 11 19 00-0378 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer (22 11 19 00-0368)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0379 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	7,465.93	287.59
For Work In Restricted Working Space, Add	115.04	
For Owner Furnished Material, Deduct	-7,082.47	
22 11 19 00-0380 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	8,454.91	323.54
For Work In Restricted Working Space, Add	127.62	
For Owner Furnished Material, Deduct	-8,029.51	
22 11 19 00-0381 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0368)		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0382 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	8,289.51	287.59
For Work In Restricted Working Space, Add	115.04	
For Owner Furnished Material, Deduct	-7,906.05	
22 11 19 00-0383 EA 3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	9,593.63	323.54
For Work In Restricted Working Space, Add	127.62	
For Owner Furnished Material, Deduct	-9,168.23	
22 11 19 00-0384 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0368)		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0385 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	10,761.86	287.59
For Work In Restricted Working Space, Add	115.03	
For Owner Furnished Material, Deduct	-10,378.42	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 11 19 00-0386	EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	12,226.83	127.63	323.54
22 11 19 00-0387	EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	15,391.74	191.63	479.32
22 11 19 00-0388	EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	23,195.61	528.00	695.88
22 11 19 00-0389	EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	38,488.12	792.00	1,043.81
22 11 19 00-0390	EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	49,724.77	673.43	1,234.62
22 11 19 00-0391 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer (22 11 19 00-0368) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).				
22 11 19 00-0392	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	11,598.44	115.03	287.59
22 11 19 00-0393	EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	13,107.25	127.62	323.54
22 11 19 00-0394	EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	16,741.58	191.61	479.32
22 11 19 00-0395	EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	25,233.51	377.12	695.88
22 11 19 00-0396	EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	40,870.63	565.68	1,043.81
22 11 19 00-0397	EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	55,484.12	673.43	1,234.62
22 11 19 00-0398 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0368) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).				
22 11 19 00-0399	EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	11,450.61	115.03	287.59
22 11 19 00-0400	EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	13,016.30	127.63	323.54
22 11 19 00-0401	EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	16,372.89	191.63	479.32
22 11 19 00-0402	EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	24,122.94	377.12	695.88
22 11 19 00-0403	EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	40,124.70	565.68	1,043.81
22 11 19 00-0404	EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series)..... For Work In Restricted Working Space, Add For Owner Furnished Material, Deduct	52,888.33	673.43	1,234.62
22 11 19 00-0405 Double Check Detector Assemblies (22 11 19 00-0235)				
22 11 19 00-0406 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0405)				
22 11 19 00-0407 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).				



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0408	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	8,584.94	323.54
			<i>For Work In Restricted Working Space, Add</i>	127.62	
			<i>For Owner Furnished Material, Deduct</i>	-8,159.54	
22 11 19 00-0409	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	8,987.57	479.32
			<i>For Work In Restricted Working Space, Add</i>	191.61	
			<i>For Owner Furnished Material, Deduct</i>	-8,348.87	
22 11 19 00-0410	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	12,098.37	695.88
			<i>For Work In Restricted Working Space, Add</i>	377.12	
			<i>For Owner Furnished Material, Deduct</i>	-10,841.30	
22 11 19 00-0411	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	21,481.88	1,043.81
			<i>For Work In Restricted Working Space, Add</i>	565.68	
			<i>For Owner Furnished Material, Deduct</i>	-19,596.27	
22 11 19 00-0412	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	29,026.25	1,234.62
			<i>For Work In Restricted Working Space, Add</i>	673.43	
			<i>For Owner Furnished Material, Deduct</i>	-26,781.49	
22 11 19 00-0413 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0406)					
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).					
22 11 19 00-0414	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,428.33	287.59
			<i>For Work In Restricted Working Space, Add</i>	115.04	
			<i>For Owner Furnished Material, Deduct</i>	-6,044.87	
22 11 19 00-0415	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,864.84	323.54
			<i>For Work In Restricted Working Space, Add</i>	127.62	
			<i>For Owner Furnished Material, Deduct</i>	-6,439.44	
22 11 19 00-0416	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	7,482.46	479.32
			<i>For Work In Restricted Working Space, Add</i>	191.61	
			<i>For Owner Furnished Material, Deduct</i>	-6,843.76	
22 11 19 00-0417	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	10,143.62	695.88
			<i>For Work In Restricted Working Space, Add</i>	377.12	
			<i>For Owner Furnished Material, Deduct</i>	-8,886.55	
22 11 19 00-0418	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	17,948.85	1,043.81
			<i>For Work In Restricted Working Space, Add</i>	565.68	
			<i>For Owner Furnished Material, Deduct</i>	-16,063.24	
22 11 19 00-0419	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	21,165.11	1,234.62
			<i>For Work In Restricted Working Space, Add</i>	673.43	
			<i>For Owner Furnished Material, Deduct</i>	-18,920.35	
22 11 19 00-0420 Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0406)					
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).					
22 11 19 00-0421	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,808.69	287.59
			<i>For Work In Restricted Working Space, Add</i>	115.04	
			<i>For Owner Furnished Material, Deduct</i>	-6,425.23	
22 11 19 00-0422	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,245.20	323.54
			<i>For Work In Restricted Working Space, Add</i>	127.62	
			<i>For Owner Furnished Material, Deduct</i>	-6,819.80	
22 11 19 00-0423	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,862.74	479.32
			<i>For Work In Restricted Working Space, Add</i>	191.61	
			<i>For Owner Furnished Material, Deduct</i>	-7,224.04	
22 11 19 00-0424	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	10,533.48	695.88
			<i>For Work In Restricted Working Space, Add</i>	377.12	
			<i>For Owner Furnished Material, Deduct</i>	-9,276.41	
22 11 19 00-0425	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	17,481.10	1,043.81
			<i>For Work In Restricted Working Space, Add</i>	565.68	
			<i>For Owner Furnished Material, Deduct</i>	-15,595.49	
22 11 19 00-0426 Flanged Double Check Detector Assemblies Without Meter (22 11 19 00-0405)					
22 11 19 00-0427 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter (22 11 19 00-0426)					
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).					
22 11 19 00-0428	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,308.24	287.59
			<i>For Work In Restricted Working Space, Add</i>	115.04	
22 11 19 00-0429	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,744.80	323.54
			<i>For Work In Restricted Working Space, Add</i>	127.62	



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0430	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	7,362.42	479.32
			<i>For Work In Restricted Working Space, Add</i>	191.61	
22 11 19 00-0431	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	10,023.58	695.88
			<i>For Work In Restricted Working Space, Add</i>	377.12	
22 11 19 00-0432	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	17,828.89	1,043.81
			<i>For Work In Restricted Working Space, Add</i>	565.68	
22 11 19 00-0433	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	21,044.98	1,234.62
			<i>For Work In Restricted Working Space, Add</i>	673.43	
22 11 19 00-0434			Double Check Detector Assembly With Butterfly Valves Less Meter (22 11 19 00-0426) Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0435	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,688.56	287.59
			<i>For Work In Restricted Working Space, Add</i>	115.04	
22 11 19 00-0436	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	7,125.08	323.54
			<i>For Work In Restricted Working Space, Add</i>	127.62	
22 11 19 00-0437	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	7,742.69	479.32
			<i>For Work In Restricted Working Space, Add</i>	191.61	
22 11 19 00-0438	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	10,413.36	695.88
			<i>For Work In Restricted Working Space, Add</i>	377.12	
22 11 19 00-0439	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	18,218.75	1,043.81
			<i>For Work In Restricted Working Space, Add</i>	565.68	
22 11 19 00-0440			Backflow Preventer Accessories (22 11 19 00-0235)		
22 11 19 00-0441			Air Gap (22 11 19 00-0440)		
22 11 19 00-0442	EA		Up To 1" Diameter Air Gap For Backflow Preventer	142.99	16.27
22 11 19 00-0443	EA		1-1/4" To 2" Diameter Air Gap For Backflow Preventer	175.99	19.52
22 11 19 00-0444	EA		2-1/2" To 3" Diameter Air Gap For Backflow Preventer	330.81	26.03
22 11 19 00-0445	EA		4" To 6" Diameter Air Gap For Backflow Preventer	654.55	45.54
22 11 19 00-0446	EA		8" To 10" Diameter Air Gap For Backflow Preventer	693.59	65.05
22 11 19 00-0447			Brass Test Cocks (22 11 19 00-0440)		
22 11 19 00-0448	EA		1/8" Or 1/4" Brass Test Cock	58.21	6.51
22 11 19 00-0449			Backflow Valve Enclosures (22 11 19 00-0235)		
22 11 19 00-0450			Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0451	EA		19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,648.73	117.10
			<i>For Heated Enclosure, Add</i>	203.40	
22 11 19 00-0452	EA		27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,028.15	117.10
			<i>For Heated Enclosure, Add</i>	260.31	
22 11 19 00-0453	EA		27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,572.48	107.84
			<i>For Heated Enclosure, Add</i>	345.43	
22 11 19 00-0454	EA		33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,672.25	143.79
			<i>For Heated Enclosure, Add</i>	346.91	
22 11 19 00-0455	EA		39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,800.92	143.79
			<i>For Heated Enclosure, Add</i>	366.21	
22 11 19 00-0456	EA		47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,302.40	143.79
			<i>For Heated Enclosure, Add</i>	441.44	
22 11 19 00-0457	EA		39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,315.60	143.79
			<i>For Heated Enclosure, Add</i>	443.42	
22 11 19 00-0458	EA		47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	4,170.10	143.79
			<i>For Heated Enclosure, Add</i>	571.59	
22 11 19 00-0459	EA		70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	9,608.82	215.70
			<i>For Heated Enclosure, Add</i>	1,360.44	
22 11 19 00-0460	EA		83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	13,920.92	215.70
			<i>For Heated Enclosure, Add</i>	2,007.25	
22 11 19 00-0461	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	13,228.08	215.70
			<i>For Heated Enclosure, Add</i>	1,903.33	
22 11 19 00-0462	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	15,927.65	251.65
			<i>For Heated Enclosure, Add</i>	2,294.78	
22 11 19 00-0463			One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0449) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0464	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	876.86	31.23
			<i>For Heated Enclosure, Add</i>	164.96	
22 11 19 00-0465	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,226.58	31.23
			<i>For Heated Enclosure, Add</i>	234.91	
22 11 19 00-0466	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,545.78	28.76
			<i>For Heated Enclosure, Add</i>	299.57	

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0467 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure For Heated Enclosure, Add	2,344.19 459.25	28.76
22 11 19 00-0468 EA 70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure For Heated Enclosure, Add	6,081.28 1,198.28	53.93
22 11 19 00-0469 EA 83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure For Heated Enclosure, Add	8,314.86 1,645.00	53.93
22 11 19 00-0470 EA 45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure For Heated Enclosure, Add	5,527.01 1,087.43	53.93
22 11 19 00-0471 EA 53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure For Heated Enclosure, Add	6,259.44 1,233.91	53.93
22 11 19 00-0472 EA 61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure For Heated Enclosure, Add	9,812.71 1,944.57	53.93
22 11 19 00-0473 Sectional, Insulated Aluminum Valve Enclosures (22 11 19 00-0449) Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0474 EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	12,456.06 1,787.52 851.43 1,523.60	215.70
22 11 19 00-0475 EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	13,732.86 1,979.04 851.43 1,523.60	215.70
22 11 19 00-0476 EA 53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	9,763.89 1,383.70 851.43 1,523.60	215.70
22 11 19 00-0477 EA 53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	10,707.47 1,525.23 851.43 1,523.60	215.70
22 11 19 00-0478 EA 90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	12,460.94 1,761.29 851.43 1,523.60	287.59
22 11 19 00-0479 EA 102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	13,971.99 1,987.95 851.43 1,523.60	287.59
22 11 19 00-0480 EA 90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	13,971.99 1,987.95 851.43 1,523.60	287.59
22 11 19 00-0481 EA 102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	15,436.84 2,207.68 851.43 1,523.60	287.59
22 11 19 00-0482 EA 62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	11,592.46 1,644.50 851.43 1,523.60	251.65
22 11 19 00-0483 EA 62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	13,572.78 1,928.07 851.43 1,523.60	287.59
22 11 19 00-0484 EA 105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	15,859.15 2,271.03 851.43 1,523.60	287.59
22 11 19 00-0485 EA 125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	17,408.54 2,496.69 851.43 1,523.60	305.57
22 11 19 00-0486 EA 105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	17,787.95 2,553.60 851.43 1,523.60	305.57
22 11 19 00-0487 EA 125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	19,720.05 2,836.68 851.43 1,523.60	323.54
22 11 19 00-0488 EA 105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	20,475.57 2,950.01 851.43 1,523.60	323.54
22 11 19 00-0489 EA 72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	14,869.38 2,122.56 851.43 1,523.60	287.59
22 11 19 00-0490 EA 72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	15,849.25 2,269.54 851.43 1,523.60	287.59



Plumbing			22
Plumbing Piping			22 10
Facility Water Distribution			22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0491	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure	17,933.11	305.57
			For Heated Enclosure, Add	2,575.38	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0492	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure	21,732.58	323.54
			For Heated Enclosure, Add	3,138.56	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0493	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	18,964.52	323.54
			For Heated Enclosure, Add	2,723.35	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0494	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure	22,787.08	341.52
			For Heated Enclosure, Add	3,289.99	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0495	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	22,031.56	341.52
			For Heated Enclosure, Add	3,176.66	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0496	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure	25,517.58	359.49
			For Heated Enclosure, Add	3,692.83	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0497	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure	23,587.53	359.49
			For Heated Enclosure, Add	3,403.32	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0498	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure	27,522.27	377.47
			For Heated Enclosure, Add	3,986.79	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0499	EA		142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure	27,567.21	395.44
			For Heated Enclosure, Add	3,986.79	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0500	EA		172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure	32,676.46	413.42
			For Heated Enclosure, Add	4,746.44	
			For One 24" Fluorescent Light Fixture, Add	851.43	
			For Two 24" Fluorescent Light Fixture, Add	1,523.60	
22 11 19 00-0501			Faucets (Hose Bibbs) (22 11 19)		
22 11 19 00-0502			Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0501)		
22 11 19 00-0503	EA		1/2", 125 Lb., Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends.....	70.16	13.01
22 11 19 00-0504	EA		3/4", 125 Lb., Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends.....	81.08	14.31
22 11 19 00-0505	EA		3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL)	20.72	9.76
22 11 19 00-0506			Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0501)		
22 11 19 00-0507	EA		3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP).....	234.56	39.81
22 11 19 00-0508			Antisiphon Freezeless Wall Faucet (Woodford 19CP) (22 11 19 00-0501)		
22 11 19 00-0509	EA		4" Long, 1/2" Antisiphon Freezeless Wall Faucet	147.71	32.53
22 11 19 00-0510	EA		6" Long, 1/2" Antisiphon Freezeless Wall Faucet	160.42	36.04
22 11 19 00-0511	EA		8" Long, 1/2" Antisiphon Freezeless Wall Faucet	169.86	38.13
22 11 19 00-0512	EA		10" Long, 1/2" Antisiphon Freezeless Wall Faucet	179.29	40.85
22 11 19 00-0513	EA		12" Long, 1/2" Antisiphon Freezeless Wall Faucet	188.87	43.33
22 11 19 00-0514			Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0515	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	376.92	38.81
22 11 19 00-0516	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	419.68	38.81
22 11 19 00-0517	EA		8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	483.83	38.81
22 11 19 00-0518	EA		12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	466.94	51.74
22 11 19 00-0519	EA		12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	531.08	51.74
22 11 19 00-0520	EA		12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	550.32	51.74
22 11 19 00-0521	EA		8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	445.34	38.81
22 11 19 00-0522	EA		8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	539.42	38.81
22 11 19 00-0523	EA		8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	622.80	38.81
22 11 19 00-0524	EA		12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	586.67	51.74
22 11 19 00-0525	EA		12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	670.06	51.74
22 11 19 00-0526	EA		12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	702.13	51.74
22 11 23			Domestic Water Pumps (22 11)		
22 11 23 13			Domestic Water Packaged Booster Pumps (22 11 23)		
			Note: Includes motor starter and controls.		
22 11 23 13-0001			Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002	EA		1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	16,877.25	383.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	17,449.82	515.27
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	18,143.90	647.09
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	18,777.22	778.90
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	20,747.22	910.72
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	23,021.01	1,042.54
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	24,565.71	1,174.34
22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank.....	45,018.74	1,553.62
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank.....	54,402.54	1,650.73
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator Tank.....	63,825.07	1,747.83
22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	59,582.16	1,650.73
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	74,432.66	1,747.83
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	92,702.03	1,942.03
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	117,705.68	2,136.23
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	142,709.31	2,330.44
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	166,328.90	2,621.74
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	189,948.50	2,913.05
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	213,568.11	3,204.35
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	237,430.46	3,592.76
22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)		
22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0002 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B).....	1,198.91	215.70
22 11 23 23-0003 EA 1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	1,231.12	215.70
22 11 23 23-0004 EA 1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B).....	1,288.77	219.89
22 11 23 23-0005 EA 1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....	1,421.00	228.88
22 11 23 23-0006 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	2,556.48	237.44
22 11 23 23-0007 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	2,727.91	237.44
22 11 23 23-0008 EA 1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB).....	4,082.08	261.42
22 11 23 23-0009 EA 1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB).....	4,256.02	287.20
22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	5,154.47	315.99
22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	5,266.93	347.77
22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	5,759.81	381.94
22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	8,261.00	420.31
22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	9,518.63	440.70
22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)		
Note: ODP motor.		
22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30).....	1,249.18	215.70
22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36).....	2,097.61	215.70
22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	2,106.28	219.89
22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	2,142.66	224.69
22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	2,151.04	228.88
22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	2,191.46	237.44
22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	2,680.31	261.42
22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....	3,459.36	315.99
22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	3,643.74	347.77
22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	4,254.44	381.94
22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	5,747.14	420.31
22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	6,722.08	440.70
22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	6,030.92	462.89
22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	6,482.45	508.82
22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF).....	7,121.82	539.63
22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	9,029.05	599.59
22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	9,572.33	719.63
22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	12,214.98	839.79
22 12 Facility Potable-Water Storage Tanks (22 10)		
22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)		
22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)		
22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	45,366.27	10,214.85
22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	51,718.04	10,214.85
22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	93,633.47	15,763.69
22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	120,844.59	20,429.72
22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)		
22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	54,776.29	10,214.85



Plumbing			22
Plumbing Piping			22 10
Facility Potable-Water Storage Tanks			22 12

22

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 12 19 00-0008	EA	10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	76,889.84		10,214.85
22 12 19 00-0009	EA	20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	114,494.35		15,763.69
22 12 19 00-0010	EA	35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	165,288.08		20,429.72
22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)					
22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)					
22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)					
22 12 23 13-0002	EA	80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	2,871.46		479.32
22 12 23 13-0003	EA	119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M)	3,556.99		599.15
22 12 23 13-0004	EA	140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	6,594.63		659.07
22 12 23 13-0005	EA	200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	7,293.57		718.98
22 12 23 13-0006	EA	250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	14,530.92		778.90
22 12 23 13-0007	EA	350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	12,509.75		838.82
22 12 23 13-0008	EA	400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	21,509.90		898.73
22 12 23 13-0009	EA	500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	19,813.47		958.65
22 12 23 13-0010	EA	750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	21,525.88		1,018.56
22 12 23 13-0011	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	25,656.74		1,078.48
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)					
22 12 23 13-0013	EA	80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,452.73		479.32
22 12 23 13-0014	EA	120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S)	4,736.37		599.15
22 12 23 13-0015	EA	140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A)	5,928.68		659.07
22 12 23 13-0016	EA	200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	7,334.79		718.98
22 12 23 13-0017	EA	200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A)	6,222.17		718.98
22 12 23 13-0018	EA	250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A)	9,644.91		778.90
22 12 23 13-0019	EA	325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A)	10,438.67		838.82
22 12 23 13-0020	EA	350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	9,933.22		838.82
22 12 23 13-0021	EA	350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A)	9,058.88		838.82
22 12 23 13-0022	EA	400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A)	12,411.81		898.73
22 12 23 13-0023	EA	500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A)	13,465.57		958.65
22 12 23 13-0024	EA	750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	15,639.72		1,018.56
22 12 23 13-0025	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A)	29,400.58		1,078.48
22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)					
22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)					
Note: Excludes excavation and backfill.					
22 12 23 26-0002	EA	100 Gallon Horizontal Non-Pressurized Polyethylene Tank	775.73		269.62
For Saddle Assembly, Add			865.80		
22 12 23 26-0003	EA	150 Gallon Horizontal Non-Pressurized Polyethylene Tank	908.68		314.55
For Saddle Assembly, Add			865.80		
22 12 23 26-0004	EA	200 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,078.13		359.49
For Saddle Assembly, Add			989.95		
22 12 23 26-0005	EA	300 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,313.32		404.43
For Saddle Assembly, Add			1,474.38		
22 12 23 26-0006	EA	335 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,575.28		449.37
For Two Tie Down Bands, Add			497.65		
22 12 23 26-0007	EA	535 Gallon Horizontal Non-Pressurized Polyethylene Tank	2,028.73		607.04
For Two Tie Down Bands, Add			531.73		
22 12 23 26-0008	EA	1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	3,033.33		708.21
For Three Tie Down Bands, Add			907.13		
22 12 23 26-0009	EA	1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank	4,377.63		809.39
For Three Tie Down Bands, Add			914.44		
22 12 23 26-0010	EA	1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	5,464.34		910.55
For Four Tie Down Bands, Add			1,238.72		
22 12 23 26-0011	EA	2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	6,401.23		1,011.73
For Four Tie Down Bands, Add			1,735.32		
22 12 23 26-0012	EA	2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	9,151.88		1,112.90
For Four Tie Down Bands, Add			2,280.60		
22 12 23 26-0013	EA	3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank	10,601.30		1,214.08
For Four Tie Down Bands, Add			2,465.61		
22 12 23 26-0014	EA	4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	15,228.31		1,618.76
For Four Tie Down Bands, Add			2,786.94		
22 12 23 26-0015	EA	5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank	19,702.33		1,618.76
For Five Tie Down Bands, Add			4,372.19		
22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)					
22 12 23 26-0017	EA	100 Gallon Vertical Non-Pressurized Polyethylene Tank	846.88		359.49
22 12 23 26-0018	EA	160 Gallon Vertical Non-Pressurized Polyethylene Tank	1,020.47		381.96

22 Plumbing**22 10 Plumbing Piping****22 12 Facility Potable-Water Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 26-0019 EA 210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,121.01	404.43
22 12 23 26-0020 EA 300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,358.63	449.37
22 12 23 26-0021 EA 405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,549.05	539.24
22 12 23 26-0022 EA 500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,829.56	629.12
22 12 23 26-0023 EA 800 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,549.47	809.39
22 12 23 26-0024 EA 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,301.25	1,011.73
22 12 23 26-0025 EA 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	4,437.66	1,214.08
22 12 23 26-0026 EA 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	5,802.89	1,416.42
22 12 23 26-0027 EA 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,538.63	1,618.76
22 12 23 26-0028 EA 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	11,561.62	1,821.11
22 12 23 26-0029 EA 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	13,106.98	2,023.45
22 12 23 26-0030 EA 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	14,443.01	2,225.80
22 12 23 26-0031 EA 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	16,640.76	2,428.15
22 12 23 26-0032 EA 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	18,797.14	2,630.49
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	23,266.09	2,832.84
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	27,992.68	3,237.53

22 13 Facility Sanitary Sewerage ^(22 10)**22 13 16 Sanitary Waste and Vent Piping** ^(22 13)**22 13 16 00-0001 Cast Iron Soil Pipe Assemblies** ^(22 13 16)**22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies** ^(22 13 16 00-0001)

Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.

22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	36.64	7.55
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	5.54	
22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	52.26	11.38
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	7.51	
22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	67.79	14.50
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	9.66	
22 13 16 00-0006 LF 5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	78.71	17.51
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	9.85	
22 13 16 00-0007 LF 6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	92.34	19.08
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	10.94	
22 13 16 00-0008 LF 8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	146.26	27.20
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	15.41	
22 13 16 00-0009 LF 10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	213.82	27.20
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	17.44	

22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies ^(22 13 16 00-0001)

Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.

22 13 16 00-0011 LF 1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly	38.16	7.19
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	6.31	
22 13 16 00-0012 LF 2" Aboveground No Hub Cast Iron Soil Pipe Assembly	40.40	7.66
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	6.78	
22 13 16 00-0013 LF 3" Aboveground No Hub Cast Iron Soil Pipe Assembly	52.00	11.15
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	8.32	
22 13 16 00-0014 LF 4" Aboveground No Hub Cast Iron Soil Pipe Assembly	62.92	14.50
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	9.95	
22 13 16 00-0015 LF 5" Aboveground No Hub Cast Iron Soil Pipe Assembly	82.23	17.17
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	11.66	
22 13 16 00-0016 LF 6" Aboveground No Hub Cast Iron Soil Pipe Assembly	94.35	18.74
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	12.70	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	149.04 17.56	26.98
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	216.34 20.41	30.65
22 13 16 00-0019 Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16)					
Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).					
22 13 16 00-0020 Bell And Spigot Cast Iron Pipe (22 13 16 00-0019)					
Note: Excludes excavation, hangers, gaskets, and fittings.					
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.97 6.12 0.57 3.42	7.55
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.98 8.76 0.86 5.14	11.38
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.91 11.39 1.09 6.53	14.50
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.46 16.08 1.31 7.85	17.51
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.19 19.58 1.43 8.57	19.08
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.32 30.45 2.04 12.24	27.20
22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.64 50.70 2.30 13.78	30.65
22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.59 73.66 3.06 18.37	40.86
22 13 16 00-0029	LF		15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	329.78 107.65 3.67 22.04	49.02
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)					
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)					
22 13 16 00-0032	EA		2" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.48 23.08 2.58 15.46	34.40
22 13 16 00-0033	EA		3" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.59 46.84 3.24 19.43	43.26
22 13 16 00-0034	EA		4" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.57 62.43 4.31 25.86	57.52
22 13 16 00-0035	EA		6" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	411.35 105.11 5.55 33.31	74.08
22 13 16 00-0036	EA		8" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	813.29 234.43 7.18 43.05	95.75
22 13 16 00-0037	EA		10" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,112.14 327.43 8.83 52.99	117.78
22 13 16 00-0038	EA		12" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,705.04 510.50 12.32 73.94	164.39

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
22 13 16 00-0039	EA	15" Bell And Spigot Cast Iron Long Sweep.....	3,164.18	228.91
		For Extra Heavy Fittings, Add	987.34	
		For Above Ground Cast Iron Pipe Installation, Add	17.16	
		For Work In Restricted Working Space, Add	102.96	
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)				
22 13 16 00-0041	EA	2" Bell And Spigot Cast Iron Short Sweep	100.07	34.40
		For Extra Heavy Fittings, Add	16.99	
		For Above Ground Cast Iron Pipe Installation, Add	2.58	
		For Work In Restricted Working Space, Add	15.46	
22 13 16 00-0042	EA	3" Bell And Spigot Cast Iron Short Sweep	169.37	43.26
		For Extra Heavy Fittings, Add	36.61	
		For Above Ground Cast Iron Pipe Installation, Add	3.24	
		For Work In Restricted Working Space, Add	19.43	
22 13 16 00-0043	EA	4" Bell And Spigot Cast Iron Short Sweep	231.71	57.52
		For Extra Heavy Fittings, Add	50.93	
		For Above Ground Cast Iron Pipe Installation, Add	4.31	
		For Work In Restricted Working Space, Add	25.86	
22 13 16 00-0044	EA	5" Bell And Spigot Cast Iron Short Sweep	345.95	62.97
		For Extra Heavy Fittings, Add	88.06	
		For Above Ground Cast Iron Pipe Installation, Add	4.72	
		For Work In Restricted Working Space, Add	28.31	
22 13 16 00-0045	EA	6" Bell And Spigot Cast Iron Short Sweep	417.61	74.08
		For Extra Heavy Fittings, Add	107.30	
		For Above Ground Cast Iron Pipe Installation, Add	5.55	
		For Work In Restricted Working Space, Add	33.31	
22 13 16 00-0046	EA	8" Bell And Spigot Cast Iron Short Sweep	687.35	95.75
		For Extra Heavy Fittings, Add	190.35	
		For Above Ground Cast Iron Pipe Installation, Add	7.18	
		For Work In Restricted Working Space, Add	43.05	
22 13 16 00-0047	EA	10" Bell And Spigot Cast Iron Short Sweep	1,004.68	117.78
		For Extra Heavy Fittings, Add	289.82	
		For Above Ground Cast Iron Pipe Installation, Add	8.83	
		For Work In Restricted Working Space, Add	52.99	
22 13 16 00-0048	EA	12" Bell And Spigot Cast Iron Short Sweep	1,664.96	164.39
		For Extra Heavy Fittings, Add	496.47	
		For Above Ground Cast Iron Pipe Installation, Add	12.32	
		For Work In Restricted Working Space, Add	73.94	
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)				
22 13 16 00-0050	EA	2" Bell And Spigot Cast Iron 1/4 Bend	90.19	34.27
		For Extra Heavy Fittings, Add	13.57	
		For Above Ground Cast Iron Pipe Installation, Add	2.57	
		For Work In Restricted Working Space, Add	15.43	
22 13 16 00-0051	EA	3" Bell And Spigot Cast Iron 1/4 Bend	135.35	38.59
		For Extra Heavy Fittings, Add	27.11	
		For Above Ground Cast Iron Pipe Installation, Add	2.89	
		For Work In Restricted Working Space, Add	17.37	
22 13 16 00-0052	EA	4" Bell And Spigot Cast Iron 1/4 Bend	193.33	51.41
		For Extra Heavy Fittings, Add	40.70	
		For Above Ground Cast Iron Pipe Installation, Add	3.85	
		For Work In Restricted Working Space, Add	23.12	
22 13 16 00-0053	EA	5" Bell And Spigot Cast Iron 1/4 Bend	240.43	56.23
		For Extra Heavy Fittings, Add	54.66	
		For Above Ground Cast Iron Pipe Installation, Add	4.21	
		For Work In Restricted Working Space, Add	25.28	
22 13 16 00-0054	EA	6" Bell And Spigot Cast Iron 1/4 Bend	289.17	67.35
		For Extra Heavy Fittings, Add	65.85	
		For Above Ground Cast Iron Pipe Installation, Add	5.05	
		For Work In Restricted Working Space, Add	30.31	
22 13 16 00-0055	EA	8" Bell And Spigot Cast Iron 1/4 Bend	599.00	88.16
		For Extra Heavy Fittings, Add	163.40	
		For Above Ground Cast Iron Pipe Installation, Add	6.61	
		For Work In Restricted Working Space, Add	39.64	
22 13 16 00-0056	EA	10" Bell And Spigot Cast Iron 1/4 Bend	882.72	106.99
		For Extra Heavy Fittings, Add	252.82	
		For Above Ground Cast Iron Pipe Installation, Add	8.02	
		For Work In Restricted Working Space, Add	48.12	
22 13 16 00-0057	EA	12" Bell And Spigot Cast Iron 1/4 Bend	1,163.34	126.28
		For Extra Heavy Fittings, Add	340.89	
		For Above Ground Cast Iron Pipe Installation, Add	9.47	
		For Work In Restricted Working Space, Add	56.81	
22 13 16 00-0058	EA	15" Bell And Spigot Cast Iron 1/4 Bend	2,969.15	199.18
		For Extra Heavy Fittings, Add	934.71	
		For Above Ground Cast Iron Pipe Installation, Add	14.93	
		For Work In Restricted Working Space, Add	89.57	
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)				
22 13 16 00-0060	EA	2" Bell And Spigot Cast Iron 1/8 Bend	82.48	34.40
		For Extra Heavy Fittings, Add	10.83	
		For Above Ground Cast Iron Pipe Installation, Add	2.58	
		For Work In Restricted Working Space, Add	15.46	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 13 16 00-0061	EA 3" Bell And Spigot Cast Iron 1/8 Bend	128.64		43.26
	For Extra Heavy Fittings, Add	22.35		
	For Above Ground Cast Iron Pipe Installation, Add	3.24		
	For Work In Restricted Working Space, Add	19.43		
22 13 16 00-0062	EA 4" Bell And Spigot Cast Iron 1/8 Bend	183.11		57.52
	For Extra Heavy Fittings, Add	33.92		
	For Above Ground Cast Iron Pipe Installation, Add	4.31		
	For Work In Restricted Working Space, Add	25.86		
22 13 16 00-0063	EA 5" Bell And Spigot Cast Iron 1/8 Bend	227.64		70.37
	For Extra Heavy Fittings, Add	42.77		
	For Above Ground Cast Iron Pipe Installation, Add	5.27		
	For Work In Restricted Working Space, Add	31.64		
22 13 16 00-0064	EA 6" Bell And Spigot Cast Iron 1/8 Bend	263.18		78.45
	For Extra Heavy Fittings, Add	50.93		
	For Above Ground Cast Iron Pipe Installation, Add	5.88		
	For Work In Restricted Working Space, Add	35.30		
22 13 16 00-0065	EA 8" Bell And Spigot Cast Iron 1/8 Bend	522.40		105.62
	For Extra Heavy Fittings, Add	127.42		
	For Above Ground Cast Iron Pipe Installation, Add	7.92		
	For Work In Restricted Working Space, Add	47.50		
22 13 16 00-0066	EA 10" Bell And Spigot Cast Iron 1/8 Bend	730.13		130.30
	For Extra Heavy Fittings, Add	187.16		
	For Above Ground Cast Iron Pipe Installation, Add	9.77		
	For Work In Restricted Working Space, Add	58.62		
22 13 16 00-0067	EA 12" Bell And Spigot Cast Iron 1/8 Bend	1,178.54		168.98
	For Extra Heavy Fittings, Add	323.84		
	For Above Ground Cast Iron Pipe Installation, Add	12.66		
	For Work In Restricted Working Space, Add	75.98		
22 13 16 00-0068	EA 15" Bell And Spigot Cast Iron 1/8 Bend	2,254.81		199.18
	For Extra Heavy Fittings, Add	684.69		
	For Above Ground Cast Iron Pipe Installation, Add	14.93		
	For Work In Restricted Working Space, Add	89.57		
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)				
22 13 16 00-0070	EA 2" Bell And Spigot Cast Iron Wye	145.00		76.81
	For Extra Heavy Fittings, Add	10.42		
	For Above Ground Cast Iron Pipe Installation, Add	5.76		
	For Work In Restricted Working Space, Add	34.57		
22 13 16 00-0071	EA 3" Bell And Spigot Cast Iron Wye	181.91		84.12
	For Extra Heavy Fittings, Add	19.52		
	For Above Ground Cast Iron Pipe Installation, Add	6.31		
	For Work In Restricted Working Space, Add	37.84		
22 13 16 00-0072	EA 4" Bell And Spigot Cast Iron Wye	239.45		110.25
	For Extra Heavy Fittings, Add	25.98		
	For Above Ground Cast Iron Pipe Installation, Add	8.26		
	For Work In Restricted Working Space, Add	49.57		
22 13 16 00-0073	EA 5" Bell And Spigot Cast Iron Wye	305.29		121.10
	For Extra Heavy Fittings, Add	43.28		
	For Above Ground Cast Iron Pipe Installation, Add	9.08		
	For Work In Restricted Working Space, Add	54.49		
22 13 16 00-0074	EA 6" Bell And Spigot Cast Iron Wye	382.81		143.55
	For Extra Heavy Fittings, Add	58.65		
	For Above Ground Cast Iron Pipe Installation, Add	10.76		
	For Work In Restricted Working Space, Add	64.58		
22 13 16 00-0075	EA 8" Bell And Spigot Cast Iron Wye	700.05		192.87
	For Extra Heavy Fittings, Add	143.81		
	For Above Ground Cast Iron Pipe Installation, Add	14.46		
	For Work In Restricted Working Space, Add	86.75		
22 13 16 00-0076	EA 10" Bell And Spigot Cast Iron Wye	980.17		218.81
	For Extra Heavy Fittings, Add	228.26		
	For Above Ground Cast Iron Pipe Installation, Add	16.40		
	For Work In Restricted Working Space, Add	98.40		
22 13 16 00-0077	EA 12" Bell And Spigot Cast Iron Wye	1,448.48		266.33
	For Extra Heavy Fittings, Add	367.21		
	For Above Ground Cast Iron Pipe Installation, Add	19.97		
	For Work In Restricted Working Space, Add	119.79		
22 13 16 00-0078	EA 15" Bell And Spigot Cast Iron Wye	2,244.56		298.83
	For Extra Heavy Fittings, Add	628.80		
	For Above Ground Cast Iron Pipe Installation, Add	22.40		
	For Work In Restricted Working Space, Add	134.40		
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)				
22 13 16 00-0080	EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	227.49		80.28
	For Extra Heavy Fittings, Add	37.48		
	For Above Ground Cast Iron Pipe Installation, Add	6.02		
	For Work In Restricted Working Space, Add	36.12		
22 13 16 00-0081	EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye	276.95		99.22
	For Extra Heavy Fittings, Add	44.85		
	For Above Ground Cast Iron Pipe Installation, Add	7.44		
	For Work In Restricted Working Space, Add	44.65		

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 13 16 00-0082	EA	4" x 3" Bell And Spigot Cast Iron Reducing Wye	308.59		101.73
		For Extra Heavy Fittings, Add	54.59		
		For Above Ground Cast Iron Pipe Installation, Add	7.63		
		For Work In Restricted Working Space, Add	45.78		
22 13 16 00-0083	EA	6" x 2" Bell And Spigot Cast Iron Reducing Wye	452.72		128.62
		For Extra Heavy Fittings, Add	90.99		
		For Above Ground Cast Iron Pipe Installation, Add	9.64		
		For Work In Restricted Working Space, Add	57.83		
22 13 16 00-0084	EA	6" x 3" Bell And Spigot Cast Iron Reducing Wye	464.44		130.98
		For Extra Heavy Fittings, Add	93.81		
		For Above Ground Cast Iron Pipe Installation, Add	9.82		
		For Work In Restricted Working Space, Add	58.93		
22 13 16 00-0085	EA	6" x 4" Bell And Spigot Cast Iron Reducing Wye	486.20		139.74
		For Extra Heavy Fittings, Add	96.84		
		For Above Ground Cast Iron Pipe Installation, Add	10.48		
		For Work In Restricted Working Space, Add	62.85		
22 13 16 00-0086	EA	8" x 2" Bell And Spigot Cast Iron Reducing Wye	714.70		155.10
		For Extra Heavy Fittings, Add	168.77		
		For Above Ground Cast Iron Pipe Installation, Add	11.63		
		For Work In Restricted Working Space, Add	69.75		
22 13 16 00-0087	EA	8" x 3" Bell And Spigot Cast Iron Reducing Wye	747.00		158.08
		For Extra Heavy Fittings, Add	178.52		
		For Above Ground Cast Iron Pipe Installation, Add	11.85		
		For Work In Restricted Working Space, Add	71.09		
22 13 16 00-0088	EA	8" x 4" Bell And Spigot Cast Iron Reducing Wye	765.06		165.54
		For Extra Heavy Fittings, Add	180.90		
		For Above Ground Cast Iron Pipe Installation, Add	12.41		
		For Work In Restricted Working Space, Add	74.46		
22 13 16 00-0089	EA	8" x 6" Bell And Spigot Cast Iron Reducing Wye	903.77		184.14
		For Extra Heavy Fittings, Add	219.68		
		For Above Ground Cast Iron Pipe Installation, Add	13.81		
		For Work In Restricted Working Space, Add	82.84		
22 13 16 00-0090	EA	10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,113.52		172.54
		For Extra Heavy Fittings, Add	299.19		
		For Above Ground Cast Iron Pipe Installation, Add	12.94		
		For Work In Restricted Working Space, Add	77.61		
22 13 16 00-0091	EA	10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,158.37		180.11
		For Extra Heavy Fittings, Add	310.89		
		For Above Ground Cast Iron Pipe Installation, Add	13.51		
		For Work In Restricted Working Space, Add	81.04		
22 13 16 00-0092	EA	10" x 6" Bell And Spigot Cast Iron Reducing Wye	1,267.28		199.18
		For Extra Heavy Fittings, Add	339.05		
		For Above Ground Cast Iron Pipe Installation, Add	14.93		
		For Work In Restricted Working Space, Add	89.57		
22 13 16 00-0093	EA	10" x 8" Bell And Spigot Cast Iron Reducing Wye	1,674.74		211.23
		For Extra Heavy Fittings, Add	475.32		
		For Above Ground Cast Iron Pipe Installation, Add	15.83		
		For Work In Restricted Working Space, Add	95.00		
22 13 16 00-0094	EA	12" x 4" Bell And Spigot Cast Iron Reducing Wye	1,723.64		211.23
		For Extra Heavy Fittings, Add	492.44		
		For Above Ground Cast Iron Pipe Installation, Add	15.83		
		For Work In Restricted Working Space, Add	95.00		
22 13 16 00-0095	EA	12" x 6" Bell And Spigot Cast Iron Reducing Wye	1,794.11		228.91
		For Extra Heavy Fittings, Add	507.82		
		For Above Ground Cast Iron Pipe Installation, Add	17.16		
		For Work In Restricted Working Space, Add	102.96		
22 13 16 00-0096	EA	12" x 8" Bell And Spigot Cast Iron Reducing Wye	2,106.32		240.27
		For Extra Heavy Fittings, Add	611.16		
		For Above Ground Cast Iron Pipe Installation, Add	18.01		
		For Work In Restricted Working Space, Add	108.05		
22 13 16 00-0097	EA	12" x 10" Bell And Spigot Cast Iron Reducing Wye	2,559.67		247.39
		For Extra Heavy Fittings, Add	766.06		
		For Above Ground Cast Iron Pipe Installation, Add	18.55		
		For Work In Restricted Working Space, Add	111.28		
22 13 16 00-0098	EA	15" x 4" Bell And Spigot Cast Iron Reducing Wye	4,229.55		233.27
		For Extra Heavy Fittings, Add	1,357.94		
		For Above Ground Cast Iron Pipe Installation, Add	17.49		
		For Work In Restricted Working Space, Add	104.92		
22 13 16 00-0099	EA	15" x 6" Bell And Spigot Cast Iron Reducing Wye	4,414.36		252.44
		For Extra Heavy Fittings, Add	1,412.53		
		For Above Ground Cast Iron Pipe Installation, Add	18.93		
		For Work In Restricted Working Space, Add	113.57		
22 13 16 00-0100	EA	15" x 8" Bell And Spigot Cast Iron Reducing Wye	4,504.91		263.35
		For Extra Heavy Fittings, Add	1,438.53		
		For Above Ground Cast Iron Pipe Installation, Add	19.74		
		For Work In Restricted Working Space, Add	118.45		
22 13 16 00-0101	EA	15" x 10" Bell And Spigot Cast Iron Reducing Wye	4,609.86		272.30
		For Extra Heavy Fittings, Add	1,470.59		
		For Above Ground Cast Iron Pipe Installation, Add	20.41		
		For Work In Restricted Working Space, Add	122.45		
22 13 16 00-0102	EA	15" x 12" Bell And Spigot Cast Iron Reducing Wye	4,726.52		288.15
		For Extra Heavy Fittings, Add	1,503.09		
		For Above Ground Cast Iron Pipe Installation, Add	21.60		
		For Work In Restricted Working Space, Add	129.59		



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Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0103			Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104	EA		2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	157.75	76.81
			For Extra Heavy Fittings, Add	14.88	
			For Above Ground Cast Iron Pipe Installation, Add	5.76	
			For Work In Restricted Working Space, Add	34.57	
22 13 16 00-0105	EA		3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	189.77	84.12
			For Extra Heavy Fittings, Add	22.27	
			For Above Ground Cast Iron Pipe Installation, Add	6.31	
			For Work In Restricted Working Space, Add	37.64	
22 13 16 00-0106	EA		4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	253.13	110.25
			For Extra Heavy Fittings, Add	30.77	
			For Above Ground Cast Iron Pipe Installation, Add	8.26	
			For Work In Restricted Working Space, Add	49.57	
22 13 16 00-0107	EA		5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	349.69	127.06
			For Extra Heavy Fittings, Add	55.74	
			For Above Ground Cast Iron Pipe Installation, Add	9.52	
			For Work In Restricted Working Space, Add	57.13	
22 13 16 00-0108	EA		6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	437.89	157.58
			For Extra Heavy Fittings, Add	70.58	
			For Above Ground Cast Iron Pipe Installation, Add	11.81	
			For Work In Restricted Working Space, Add	70.87	
22 13 16 00-0109	EA		8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	802.24	207.67
			For Extra Heavy Fittings, Add	171.82	
			For Above Ground Cast Iron Pipe Installation, Add	15.57	
			For Work In Restricted Working Space, Add	93.40	
22 13 16 00-0110	EA		10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,157.15	272.30
			For Extra Heavy Fittings, Add	262.14	
			For Above Ground Cast Iron Pipe Installation, Add	20.41	
			For Work In Restricted Working Space, Add	122.45	
22 13 16 00-0111	EA		12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,551.17	350.03
			For Extra Heavy Fittings, Add	359.23	
			For Above Ground Cast Iron Pipe Installation, Add	26.24	
			For Work In Restricted Working Space, Add	157.44	
22 13 16 00-0112			Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0113	EA		3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	168.13	80.28
			For Extra Heavy Fittings, Add	16.70	
			For Above Ground Cast Iron Pipe Installation, Add	6.02	
			For Work In Restricted Working Space, Add	36.12	
22 13 16 00-0114	EA		4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	236.48	99.22
			For Extra Heavy Fittings, Add	30.68	
			For Above Ground Cast Iron Pipe Installation, Add	7.44	
			For Work In Restricted Working Space, Add	44.65	
22 13 16 00-0115	EA		4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	255.18	101.73
			For Extra Heavy Fittings, Add	35.90	
			For Above Ground Cast Iron Pipe Installation, Add	7.63	
			For Work In Restricted Working Space, Add	45.78	
22 13 16 00-0116	EA		6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	376.12	128.62
			For Extra Heavy Fittings, Add	64.18	
			For Above Ground Cast Iron Pipe Installation, Add	9.64	
			For Work In Restricted Working Space, Add	57.83	
22 13 16 00-0117	EA		6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	391.72	130.98
			For Extra Heavy Fittings, Add	68.36	
			For Above Ground Cast Iron Pipe Installation, Add	9.82	
			For Work In Restricted Working Space, Add	58.93	
22 13 16 00-0118	EA		6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	415.24	139.74
			For Extra Heavy Fittings, Add	72.01	
			For Above Ground Cast Iron Pipe Installation, Add	10.48	
			For Work In Restricted Working Space, Add	62.85	
22 13 16 00-0119	EA		8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	572.42	155.10
			For Extra Heavy Fittings, Add	118.97	
			For Above Ground Cast Iron Pipe Installation, Add	11.63	
			For Work In Restricted Working Space, Add	69.75	
22 13 16 00-0120	EA		8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	588.12	165.54
			For Extra Heavy Fittings, Add	118.97	
			For Above Ground Cast Iron Pipe Installation, Add	12.41	
			For Work In Restricted Working Space, Add	74.46	
22 13 16 00-0121	EA		8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend	742.75	184.14
			For Extra Heavy Fittings, Add	163.32	
			For Above Ground Cast Iron Pipe Installation, Add	13.81	
			For Work In Restricted Working Space, Add	82.84	
22 13 16 00-0122			Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123	EA		2" Bell And Spigot Cast Iron Double Wye.....	255.35	91.91
			For Extra Heavy Fittings, Add	41.16	
			For Above Ground Cast Iron Pipe Installation, Add	6.89	
			For Work In Restricted Working Space, Add	41.32	
22 13 16 00-0124	EA		3" Bell And Spigot Cast Iron Double Wye.....	371.13	115.87
			For Extra Heavy Fittings, Add	69.11	
			For Above Ground Cast Iron Pipe Installation, Add	8.68	
			For Work In Restricted Working Space, Add	52.10	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye	503.30	146.55
For Extra Heavy Fittings, Add	99.23	
For Above Ground Cast Iron Pipe Installation, Add	10.99	
For Work In Restricted Working Space, Add	65.94	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye	959.55	220.55
For Extra Heavy Fittings, Add	220.11	
For Above Ground Cast Iron Pipe Installation, Add	16.53	
For Work In Restricted Working Space, Add	99.20	
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye	1,921.56	260.71
For Extra Heavy Fittings, Add	535.77	
For Above Ground Cast Iron Pipe Installation, Add	19.54	
For Work In Restricted Working Space, Add	117.24	
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye	2,546.23	291.71
For Extra Heavy Fittings, Add	738.12	
For Above Ground Cast Iron Pipe Installation, Add	21.87	
For Work In Restricted Working Space, Add	131.20	
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye	1,766.30	350.03
For Extra Heavy Fittings, Add	434.53	
For Above Ground Cast Iron Pipe Installation, Add	26.24	
For Work In Restricted Working Space, Add	157.44	
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye	4,977.35	367.36
For Extra Heavy Fittings, Add	1,549.21	
For Above Ground Cast Iron Pipe Installation, Add	27.55	
For Work In Restricted Working Space, Add	165.32	
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	232.38	108.68
For Extra Heavy Fittings, Add	24.29	
For Above Ground Cast Iron Pipe Installation, Add	8.15	
For Work In Restricted Working Space, Add	48.90	
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	270.00	124.86
For Extra Heavy Fittings, Add	28.97	
For Above Ground Cast Iron Pipe Installation, Add	9.36	
For Work In Restricted Working Space, Add	56.17	
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	292.33	130.98
For Extra Heavy Fittings, Add	33.56	
For Above Ground Cast Iron Pipe Installation, Add	9.82	
For Work In Restricted Working Space, Add	58.94	
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	372.44	152.98
For Extra Heavy Fittings, Add	50.09	
For Above Ground Cast Iron Pipe Installation, Add	11.47	
For Work In Restricted Working Space, Add	68.80	
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	394.81	158.81
For Extra Heavy Fittings, Add	54.86	
For Above Ground Cast Iron Pipe Installation, Add	11.90	
For Work In Restricted Working Space, Add	71.42	
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	454.25	173.19
For Extra Heavy Fittings, Add	68.11	
For Above Ground Cast Iron Pipe Installation, Add	12.98	
For Work In Restricted Working Space, Add	77.89	
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	733.23	200.90
For Extra Heavy Fittings, Add	151.24	
For Above Ground Cast Iron Pipe Installation, Add	15.06	
For Work In Restricted Working Space, Add	90.33	
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye	798.72	237.75
For Extra Heavy Fittings, Add	154.77	
For Above Ground Cast Iron Pipe Installation, Add	17.83	
For Work In Restricted Working Space, Add	106.96	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye	781.11	214.90
For Extra Heavy Fittings, Add	160.60	
For Above Ground Cast Iron Pipe Installation, Add	16.11	
For Work In Restricted Working Space, Add	96.68	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye	910.33	252.44
For Extra Heavy Fittings, Add	186.12	
For Above Ground Cast Iron Pipe Installation, Add	18.93	
For Work In Restricted Working Space, Add	113.57	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,121.62	275.17
For Extra Heavy Fittings, Add	248.17	
For Above Ground Cast Iron Pipe Installation, Add	20.63	
For Work In Restricted Working Space, Add	123.77	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye	1,145.66	281.48
For Extra Heavy Fittings, Add	253.26	
For Above Ground Cast Iron Pipe Installation, Add	21.10	
For Work In Restricted Working Space, Add	126.62	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,464.24	306.28
For Extra Heavy Fittings, Add	351.77	
For Above Ground Cast Iron Pipe Installation, Add	22.96	
For Work In Restricted Working Space, Add	137.76	

22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)



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Facility Sanitary Sewerage			22 13

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
22 13 16 00-0146	EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	213.19		91.91	
	For Extra Heavy Fittings, Add	26.41			
	For Above Ground Cast Iron Pipe Installation, Add	6.89			
	For Work In Restricted Working Space, Add	41.32			
22 13 16 00-0147	EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	287.10		122.95	
	For Extra Heavy Fittings, Add	35.96			
	For Above Ground Cast Iron Pipe Installation, Add	9.22			
	For Work In Restricted Working Space, Add	55.31			
22 13 16 00-0148	EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	375.04		153.74	
	For Extra Heavy Fittings, Add	50.61			
	For Above Ground Cast Iron Pipe Installation, Add	11.52			
	For Work In Restricted Working Space, Add	69.13			
22 13 16 00-0149	EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	817.82		246.48	
	For Extra Heavy Fittings, Add	156.89			
	For Above Ground Cast Iron Pipe Installation, Add	18.48			
	For Work In Restricted Working Space, Add	110.87			
22 13 16 00-0150	Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)				
22 13 16 00-0151	EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	284.50		110.25	
	For Extra Heavy Fittings, Add	41.74			
	For Above Ground Cast Iron Pipe Installation, Add	8.26			
	For Work In Restricted Working Space, Add	49.57			
22 13 16 00-0152	EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	337.51		124.86	
	For Extra Heavy Fittings, Add	52.59			
	For Above Ground Cast Iron Pipe Installation, Add	9.36			
	For Work In Restricted Working Space, Add	56.17			
22 13 16 00-0153	EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	378.88		139.01	
	For Extra Heavy Fittings, Add	59.69			
	For Above Ground Cast Iron Pipe Installation, Add	10.42			
	For Work In Restricted Working Space, Add	62.50			
22 13 16 00-0154	EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	754.23		183.84	
	For Extra Heavy Fittings, Add	167.49			
	For Above Ground Cast Iron Pipe Installation, Add	13.78			
	For Work In Restricted Working Space, Add	82.70			
22 13 16 00-0155	Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)				
22 13 16 00-0156	EA 2" Bell And Spigot Cast Iron Sanitary Tee	174.13		76.93	
	For Extra Heavy Fittings, Add	20.58			
	For Above Ground Cast Iron Pipe Installation, Add	5.77			
	For Work In Restricted Working Space, Add	34.60			
22 13 16 00-0157	EA 3" Bell And Spigot Cast Iron Sanitary Tee	197.94		84.12	
	For Extra Heavy Fittings, Add	25.13			
	For Above Ground Cast Iron Pipe Installation, Add	6.31			
	For Work In Restricted Working Space, Add	37.84			
22 13 16 00-0158	EA 4" Bell And Spigot Cast Iron Sanitary Tee	317.99		103.06	
	For Extra Heavy Fittings, Add	57.19			
	For Above Ground Cast Iron Pipe Installation, Add	7.73			
	For Work In Restricted Working Space, Add	46.37			
22 13 16 00-0159	EA 5" Bell And Spigot Cast Iron Sanitary Tee	458.94		112.02	
	For Extra Heavy Fittings, Add	101.82			
	For Above Ground Cast Iron Pipe Installation, Add	8.40			
	For Work In Restricted Working Space, Add	50.41			
22 13 16 00-0160	EA 6" Bell And Spigot Cast Iron Sanitary Tee	550.56		134.35	
	For Extra Heavy Fittings, Add	122.19			
	For Above Ground Cast Iron Pipe Installation, Add	10.07			
	For Work In Restricted Working Space, Add	60.44			
22 13 16 00-0161	EA 8" Bell And Spigot Cast Iron Sanitary Tee	1,183.41		176.21	
	For Extra Heavy Fittings, Add	321.72			
	For Above Ground Cast Iron Pipe Installation, Add	13.21			
	For Work In Restricted Working Space, Add	79.26			
22 13 16 00-0162	EA 10" Bell And Spigot Cast Iron Sanitary Tee	1,778.11		214.90	
	For Extra Heavy Fittings, Add	509.55			
	For Above Ground Cast Iron Pipe Installation, Add	16.11			
	For Work In Restricted Working Space, Add	96.68			
22 13 16 00-0163	EA 12" Bell And Spigot Cast Iron Sanitary Tee	2,652.73		252.44	
	For Extra Heavy Fittings, Add	795.96			
	For Above Ground Cast Iron Pipe Installation, Add	18.93			
	For Work In Restricted Working Space, Add	113.57			
22 13 16 00-0164	Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)				
22 13 16 00-0165	EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	233.07		80.28	
	For Extra Heavy Fittings, Add	39.43			
	For Above Ground Cast Iron Pipe Installation, Add	6.02			
	For Work In Restricted Working Space, Add	36.12			
22 13 16 00-0166	EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee	275.92		94.07	
	For Extra Heavy Fittings, Add	47.23			
	For Above Ground Cast Iron Pipe Installation, Add	7.05			
	For Work In Restricted Working Space, Add	42.29			

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0167	EA		4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	288.92 51.78 7.05 42.29	94.07
22 13 16 00-0168	EA		6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	435.39 84.92 9.64 57.83	128.62
22 13 16 00-0169	EA		6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	453.30 89.91 9.82 58.93	130.98
22 13 16 00-0170	EA		6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	491.77 98.79 10.48 62.85	139.74
22 13 16 00-0171	EA		8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	838.72 206.68 12.41 74.46	165.54
22 13 16 00-0172	EA		8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,052.95 271.89 13.81 82.84	184.14
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)					
22 13 16 00-0174	EA		2" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.58 12.02 5.76 34.57	76.81
22 13 16 00-0175	EA		3" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	185.93 20.93 6.31 37.84	84.12
22 13 16 00-0176	EA		4" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.26 28.36 8.26 49.57	110.25
22 13 16 00-0177	EA		5" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	311.31 42.31 9.52 57.13	127.06
22 13 16 00-0178	EA		6" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	391.96 54.51 11.81 70.87	157.58
22 13 16 00-0179	EA		8" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	673.74 126.85 15.57 93.40	207.67
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)					
22 13 16 00-0181	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.61 13.43 5.76 34.57	76.81
22 13 16 00-0182	EA		3" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	169.53 15.19 6.31 37.84	84.12
22 13 16 00-0183	EA		4" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.71 18.72 8.26 49.57	110.25
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)					
22 13 16 00-0185	EA		2" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.15 14.32 5.76 34.57	76.81
22 13 16 00-0186	EA		3" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.36 16.88 6.31 37.84	84.12
22 13 16 00-0187	EA		4" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.84 22.96 8.26 49.57	110.25
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)					



Plumbing			22
Plumbing Piping			22 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0189	EA		3" x 2" Bell And Spigot Cast Iron Reducer.....	86.50	43.26
			For Extra Heavy Fittings, Add	7.61	
			For Above Ground Cast Iron Pipe Installation, Add	3.24	
			For Work In Restricted Working Space, Add	19.43	
22 13 16 00-0190	EA		4" x 2" Bell And Spigot Cast Iron Reducer.....	108.32	57.04
			For Extra Heavy Fittings, Add	7.95	
			For Above Ground Cast Iron Pipe Installation, Add	4.28	
			For Work In Restricted Working Space, Add	25.68	
22 13 16 00-0191	EA		4" x 3" Bell And Spigot Cast Iron Reducer.....	115.74	57.52
			For Extra Heavy Fittings, Add	10.34	
			For Above Ground Cast Iron Pipe Installation, Add	4.31	
			For Work In Restricted Working Space, Add	25.86	
22 13 16 00-0192	EA		6" x 2" Bell And Spigot Cast Iron Reducer.....	144.94	68.01
			For Extra Heavy Fittings, Add	15.02	
			For Above Ground Cast Iron Pipe Installation, Add	5.10	
			For Work In Restricted Working Space, Add	30.61	
22 13 16 00-0193	EA		6" x 3" Bell And Spigot Cast Iron Reducer.....	151.60	68.91
			For Extra Heavy Fittings, Add	16.88	
			For Above Ground Cast Iron Pipe Installation, Add	5.17	
			For Work In Restricted Working Space, Add	31.01	
22 13 16 00-0194	EA		6" x 4" Bell And Spigot Cast Iron Reducer.....	156.45	70.37
			For Extra Heavy Fittings, Add	17.85	
			For Above Ground Cast Iron Pipe Installation, Add	5.27	
			For Work In Restricted Working Space, Add	31.64	
22 13 16 00-0195	EA		8" x 2" Bell And Spigot Cast Iron Reducer.....	202.88	72.50
			For Extra Heavy Fittings, Add	32.95	
			For Above Ground Cast Iron Pipe Installation, Add	5.44	
			For Work In Restricted Working Space, Add	32.62	
22 13 16 00-0196	EA		8" x 3" Bell And Spigot Cast Iron Reducer.....	229.21	89.43
			For Extra Heavy Fittings, Add	33.30	
			For Above Ground Cast Iron Pipe Installation, Add	6.70	
			For Work In Restricted Working Space, Add	40.22	
22 13 16 00-0197	EA		8" x 4" Bell And Spigot Cast Iron Reducer.....	235.24	91.72
			For Extra Heavy Fittings, Add	34.19	
			For Above Ground Cast Iron Pipe Installation, Add	6.88	
			For Work In Restricted Working Space, Add	41.27	
22 13 16 00-0198	EA		8" x 6" Bell And Spigot Cast Iron Reducer.....	242.97	95.75
			For Extra Heavy Fittings, Add	34.81	
			For Above Ground Cast Iron Pipe Installation, Add	7.18	
			For Work In Restricted Working Space, Add	43.05	
22 13 16 00-0199	EA		10" x 4" Bell And Spigot Cast Iron Reducer.....	303.49	107.46
			For Extra Heavy Fittings, Add	49.83	
			For Above Ground Cast Iron Pipe Installation, Add	8.06	
			For Work In Restricted Working Space, Add	48.34	
22 13 16 00-0200	EA		10" x 6" Bell And Spigot Cast Iron Reducer.....	319.97	112.85
			For Extra Heavy Fittings, Add	52.75	
			For Above Ground Cast Iron Pipe Installation, Add	8.46	
			For Work In Restricted Working Space, Add	50.78	
22 13 16 00-0201	EA		10" x 8" Bell And Spigot Cast Iron Reducer.....	340.96	117.78
			For Extra Heavy Fittings, Add	57.52	
			For Above Ground Cast Iron Pipe Installation, Add	8.83	
			For Work In Restricted Working Space, Add	52.99	
22 13 16 00-0202	EA		12" x 4" Bell And Spigot Cast Iron Reducer.....	423.76	127.66
			For Extra Heavy Fittings, Add	81.35	
			For Above Ground Cast Iron Pipe Installation, Add	9.57	
			For Work In Restricted Working Space, Add	57.40	
22 13 16 00-0203	EA		12" x 6" Bell And Spigot Cast Iron Reducer.....	472.58	149.35
			For Extra Heavy Fittings, Add	87.01	
			For Above Ground Cast Iron Pipe Installation, Add	11.20	
			For Work In Restricted Working Space, Add	67.20	
22 13 16 00-0204	EA		12" x 8" Bell And Spigot Cast Iron Reducer.....	511.06	170.13
			For Extra Heavy Fittings, Add	89.58	
			For Above Ground Cast Iron Pipe Installation, Add	12.76	
			For Work In Restricted Working Space, Add	76.53	
22 13 16 00-0205	EA		12" x 10" Bell And Spigot Cast Iron Reducer.....	559.83	195.96
			For Extra Heavy Fittings, Add	93.11	
			For Above Ground Cast Iron Pipe Installation, Add	14.69	
			For Work In Restricted Working Space, Add	88.14	
22 13 16 00-0206	EA		15" x 6" Bell And Spigot Cast Iron Reducer.....	731.97	195.96
			For Extra Heavy Fittings, Add	153.36	
			For Above Ground Cast Iron Pipe Installation, Add	14.69	
			For Work In Restricted Working Space, Add	88.14	
22 13 16 00-0207	EA		15" x 8" Bell And Spigot Cast Iron Reducer.....	778.82	211.23
			For Extra Heavy Fittings, Add	161.75	
			For Above Ground Cast Iron Pipe Installation, Add	15.83	
			For Work In Restricted Working Space, Add	95.00	
22 13 16 00-0208	EA		15" x 10" Bell And Spigot Cast Iron Reducer.....	810.95	222.71
			For Extra Heavy Fittings, Add	166.95	
			For Above Ground Cast Iron Pipe Installation, Add	16.70	
			For Work In Restricted Working Space, Add	100.19	
22 13 16 00-0209	EA		15" x 12" Bell And Spigot Cast Iron Reducer.....	854.50	237.75
			For Extra Heavy Fittings, Add	174.29	
			For Above Ground Cast Iron Pipe Installation, Add	17.83	
			For Work In Restricted Working Space, Add	106.96	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
22 13 16 00-0210	Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)				
22 13 16 00-0211	EA 2" Bell And Spigot Cast Iron P-Trap.....		88.67	34.40	
	For Extra Heavy Fittings, Add		13.00		
	For Above Ground Cast Iron Pipe Installation, Add		2.58		
	For Work In Restricted Working Space, Add		15.46		
22 13 16 00-0212	EA 3" Bell And Spigot Cast Iron P-Trap.....		118.81	43.26	
	For Extra Heavy Fittings, Add		18.91		
	For Above Ground Cast Iron Pipe Installation, Add		3.24		
	For Work In Restricted Working Space, Add		19.43		
22 13 16 00-0213	EA 4" Bell And Spigot Cast Iron P-Trap.....		161.91	57.52	
	For Extra Heavy Fittings, Add		26.50		
	For Above Ground Cast Iron Pipe Installation, Add		4.31		
	For Work In Restricted Working Space, Add		25.86		
22 13 16 00-0214	EA 5" Bell And Spigot Cast Iron P-Trap.....		256.66	62.97	
	For Extra Heavy Fittings, Add		56.81		
	For Above Ground Cast Iron Pipe Installation, Add		4.72		
	For Work In Restricted Working Space, Add		28.31		
22 13 16 00-0215	EA 6" Bell And Spigot Cast Iron P-Trap.....		344.77	74.08	
	For Extra Heavy Fittings, Add		81.81		
	For Above Ground Cast Iron Pipe Installation, Add		5.55		
	For Work In Restricted Working Space, Add		33.31		
22 13 16 00-0216	EA 8" Bell And Spigot Cast Iron P-Trap.....		767.44	95.75	
	For Extra Heavy Fittings, Add		218.38		
	For Above Ground Cast Iron Pipe Installation, Add		7.18		
	For Work In Restricted Working Space, Add		43.05		
22 13 16 00-0217	EA 10" Bell And Spigot Cast Iron P-Trap.....		850.70	117.78	
	For Extra Heavy Fittings, Add		235.93		
	For Above Ground Cast Iron Pipe Installation, Add		8.83		
	For Work In Restricted Working Space, Add		52.99		
22 13 16 00-0218	Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)				
22 13 16 00-0219	EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap.....		102.78	34.40	
	For Extra Heavy Fittings, Add		17.94		
	For Above Ground Cast Iron Pipe Installation, Add		2.58		
	For Work In Restricted Working Space, Add		15.46		
22 13 16 00-0220	EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap.....		146.54	43.26	
	For Extra Heavy Fittings, Add		28.62		
	For Above Ground Cast Iron Pipe Installation, Add		3.24		
	For Work In Restricted Working Space, Add		19.43		
22 13 16 00-0221	EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap.....		213.47	57.52	
	For Extra Heavy Fittings, Add		44.54		
	For Above Ground Cast Iron Pipe Installation, Add		4.31		
	For Work In Restricted Working Space, Add		25.86		
22 13 16 00-0222	EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap.....		349.27	70.37	
	For Extra Heavy Fittings, Add		85.34		
	For Above Ground Cast Iron Pipe Installation, Add		5.27		
	For Work In Restricted Working Space, Add		31.64		
22 13 16 00-0223	EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap.....		370.60	78.45	
	For Extra Heavy Fittings, Add		88.52		
	For Above Ground Cast Iron Pipe Installation, Add		5.88		
	For Work In Restricted Working Space, Add		35.30		
22 13 16 00-0224	Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)				
22 13 16 00-0225	EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent		237.07	83.04	
	For Above Ground Cast Iron Pipe Installation, Add		6.31		
	For Work In Restricted Working Space, Add		37.84		
22 13 16 00-0226	EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent		316.24	109.17	
	For Above Ground Cast Iron Pipe Installation, Add		8.26		
	For Work In Restricted Working Space, Add		49.57		
22 13 16 00-0227	EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent		425.22	122.22	
	For Above Ground Cast Iron Pipe Installation, Add		9.24		
	For Work In Restricted Working Space, Add		55.43		
22 13 16 00-0228	EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent		856.73	138.51	
	For Above Ground Cast Iron Pipe Installation, Add		10.48		
	For Work In Restricted Working Space, Add		62.85		
22 13 16 00-0229	EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent		2,817.69	163.70	
	For Above Ground Cast Iron Pipe Installation, Add		12.41		
	For Work In Restricted Working Space, Add		74.46		
22 13 16 00-0230	EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent		3,050.77	182.64	
	For Above Ground Cast Iron Pipe Installation, Add		13.81		
	For Work In Restricted Working Space, Add		82.84		
22 13 16 00-0231	Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)				
22 13 16 00-0232	EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent.....		303.28	114.68	
	For Above Ground Cast Iron Pipe Installation, Add		8.68		
	For Work In Restricted Working Space, Add		52.10		
22 13 16 00-0233	EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....		414.22	144.75	
	For Above Ground Cast Iron Pipe Installation, Add		10.99		
	For Work In Restricted Working Space, Add		65.94		



Plumbing		22	22
Plumbing Piping		22 10	
Facility Sanitary Sewerage		22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0234	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	954.66	171.16
			For Above Ground Cast Iron Pipe Installation, Add	12.98	
			For Work In Restricted Working Space, Add	77.89	
22 13 16 00-0235	EA		6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent.....	1,107.09	207.19
			For Above Ground Cast Iron Pipe Installation, Add	15.70	
			For Work In Restricted Working Space, Add	94.19	
22 13 16 00-0236	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent.....	3,034.43	198.49
			For Above Ground Cast Iron Pipe Installation, Add	15.06	
			For Work In Restricted Working Space, Add	90.33	
22 13 16 00-0237	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent.....	3,329.45	235.68
			For Above Ground Cast Iron Pipe Installation, Add	17.83	
			For Work In Restricted Working Space, Add	106.96	
22 13 16 00-0238	EA		10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent.....	4,429.07	271.96
			For Above Ground Cast Iron Pipe Installation, Add	20.63	
			For Work In Restricted Working Space, Add	123.77	
22 13 16 00-0239	EA		12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent.....	6,131.46	314.43
			For Above Ground Cast Iron Pipe Installation, Add	23.82	
			For Work In Restricted Working Space, Add	142.90	
22 13 16 00-0240	EA		15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent.....	11,940.81	363.68
			For Above Ground Cast Iron Pipe Installation, Add	27.56	
			For Work In Restricted Working Space, Add	165.38	
22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)					
22 13 16 00-0242	EA		2" Bell And Spigot Cast Iron Scission Joint Fitting.....	183.97	
			For Above Ground Cast Iron Pipe Installation, Add	2.57	
			For Work In Restricted Working Space, Add	15.42	
22 13 16 00-0243	EA		3" Bell And Spigot Cast Iron Scission Joint Fitting.....	253.88	
			For Above Ground Cast Iron Pipe Installation, Add	2.89	
			For Work In Restricted Working Space, Add	17.33	
22 13 16 00-0244	EA		4" Bell And Spigot Cast Iron Scission Joint Fitting.....	293.08	
			For Above Ground Cast Iron Pipe Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.21	
22 13 16 00-0245	EA		5" Bell And Spigot Cast Iron Scission Joint Fitting.....	361.98	
			For Above Ground Cast Iron Pipe Installation, Add	4.49	
			For Work In Restricted Working Space, Add	26.96	
22 13 16 00-0246	EA		6" Bell And Spigot Cast Iron Scission Joint Fitting.....	439.59	
			For Above Ground Cast Iron Pipe Installation, Add	5.43	
			For Work In Restricted Working Space, Add	32.57	
22 13 16 00-0247	EA		8" Bell And Spigot Cast Iron Scission Joint Fitting.....	833.36	
			For Above Ground Cast Iron Pipe Installation, Add	6.86	
			For Work In Restricted Working Space, Add	41.16	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)					
Note: For use when connecting pipe to an existing in-place system.					
22 13 16 00-0249	EA		2", Cut And Prepare Existing In-Place Cast Iron Pipe.....	14.31	
			For Above Ground Cast Iron Pipe Installation, Add	0.72	
			For Work In Restricted Working Space, Add	4.29	
22 13 16 00-0250	EA		3", Cut And Prepare Existing In-Place Cast Iron Pipe.....	15.61	
			For Above Ground Cast Iron Pipe Installation, Add	0.78	
			For Work In Restricted Working Space, Add	4.68	
22 13 16 00-0251	EA		4", Cut And Prepare Existing In-Place Cast Iron Pipe.....	19.52	
			For Above Ground Cast Iron Pipe Installation, Add	0.98	
			For Work In Restricted Working Space, Add	5.86	
22 13 16 00-0252	EA		6", Cut And Prepare Existing In-Place Cast Iron Pipe.....	23.42	
			For Above Ground Cast Iron Pipe Installation, Add	1.17	
			For Work In Restricted Working Space, Add	7.03	
22 13 16 00-0253	EA		8", Cut And Prepare Existing In-Place Cast Iron Pipe.....	31.23	
			For Above Ground Cast Iron Pipe Installation, Add	1.56	
			For Work In Restricted Working Space, Add	9.37	
22 13 16 00-0254	EA		10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	36.43	
			For Above Ground Cast Iron Pipe Installation, Add	1.82	
			For Work In Restricted Working Space, Add	10.93	
22 13 16 00-0255	EA		12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	42.93	
			For Above Ground Cast Iron Pipe Installation, Add	2.15	
			For Work In Restricted Working Space, Add	12.88	
22 13 16 00-0256	EA		15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	49.44	
			For Above Ground Cast Iron Pipe Installation, Add	2.47	
			For Work In Restricted Working Space, Add	14.83	
22 13 16 00-0257 Joint Material (22 13 16 00-0019)					
Note: Labor costs are included in the installation costs for fittings.					
22 13 16 00-0258	LB		Lead (1 Lb./Diameter Inch) Joint Material.....	6.73	
22 13 16 00-0259	LB		Oakum (1/8 Lb./Diameter Inch) Joint Material.....	12.82	
22 13 16 00-0260	EA		2" Dual Tite Rubber Gasket.....	3.32	
22 13 16 00-0261	EA		3" Dual Tite Rubber Gasket.....	4.55	
22 13 16 00-0262	EA		4" Dual Tite Rubber Gasket.....	5.65	
22 13 16 00-0263	EA		6" Dual Tite Rubber Gasket.....	9.38	
22 13 16 00-0264	EA		8" Dual Tite Rubber Gasket.....	20.68	
22 13 16 00-0265	EA		10" Dual Tite Rubber Gasket.....	31.72	
22 13 16 00-0266	EA		12" Dual Tite Rubber Gasket.....	40.40	
22 13 16 00-0267	EA		15" Dual Tite Rubber Gasket.....	47.99	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 13 16 00-0268	No Hub Cast Iron Soil Pipe And Fittings (22 13 16)				
	Note: Service Weight. Excludes hangers.				
22 13 16 00-0269	No Hub Cast Iron Pipe (22 13 16 00-0268)				
	Note: Excludes couplings.				
22 13 16 00-0270	LF 1-1/2" No Hub Cast Iron Pipe.....	22.66		7.19	
	For Below Ground Installation, Add	0.54			
	For Work In Restricted Working Space, Add	3.24			
22 13 16 00-0271	LF 2" No Hub Cast Iron Pipe.....	24.02		7.66	
	For Below Ground Installation, Add	0.58			
	For Work In Restricted Working Space, Add	3.47			
22 13 16 00-0272	LF 3" No Hub Cast Iron Pipe.....	34.00		11.15	
	For Below Ground Installation, Add	0.84			
	For Work In Restricted Working Space, Add	5.03			
22 13 16 00-0273	LF 4" No Hub Cast Iron Pipe.....	44.10		14.50	
	For Below Ground Installation, Add	1.09			
	For Work In Restricted Working Space, Add	6.53			
22 13 16 00-0274	LF 5" No Hub Cast Iron Pipe.....	56.85		17.17	
	For Below Ground Installation, Add	1.29			
	For Work In Restricted Working Space, Add	7.73			
22 13 16 00-0275	LF 6" No Hub Cast Iron Pipe.....	66.52		18.74	
	For Below Ground Installation, Add	1.40			
	For Work In Restricted Working Space, Add	8.42			
22 13 16 00-0276	LF 8" No Hub Cast Iron Pipe.....	101.96		26.98	
	For Below Ground Installation, Add	2.02			
	For Work In Restricted Working Space, Add	12.11			
22 13 16 00-0277	LF 10" No Hub Cast Iron Pipe.....	148.03		30.65	
	For Below Ground Installation, Add	2.30			
	For Work In Restricted Working Space, Add	13.78			
22 13 16 00-0278	No Hub Cast Iron Fittings (22 13 16 00-0268)				
22 13 16 00-0279	No Hub Cast Iron Long Sweeps (22 13 16 00-0278)				
22 13 16 00-0280	EA 1-1/2" No Hub Cast Iron Long Sweep.....	76.14		32.60	
	For Below Ground Installation, Add	2.45			
	For Work In Restricted Working Space, Add	14.67			
22 13 16 00-0281	EA 2" No Hub Cast Iron Long Sweep.....	78.89		34.03	
	For Below Ground Installation, Add	2.55			
	For Work In Restricted Working Space, Add	15.30			
22 13 16 00-0282	EA 3" No Hub Cast Iron Long Sweep.....	93.42		38.94	
	For Below Ground Installation, Add	2.92			
	For Work In Restricted Working Space, Add	17.54			
22 13 16 00-0283	EA 4" No Hub Cast Iron Long Sweep.....	129.44		51.52	
	For Below Ground Installation, Add	3.87			
	For Work In Restricted Working Space, Add	23.20			
22 13 16 00-0284	EA 5" No Hub Cast Iron Long Sweep.....	180.90		56.68	
	For Below Ground Installation, Add	4.25			
	For Work In Restricted Working Space, Add	25.48			
22 13 16 00-0285	EA 6" No Hub Cast Iron Long Sweep.....	214.50		67.57	
	For Below Ground Installation, Add	5.07			
	For Work In Restricted Working Space, Add	30.41			
22 13 16 00-0286	EA 8" No Hub Cast Iron Long Sweep.....	440.48		87.47	
	For Below Ground Installation, Add	6.56			
	For Work In Restricted Working Space, Add	39.36			
22 13 16 00-0287	No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)				
22 13 16 00-0288	EA 3" x 2" No Hub Cast Iron Reducing Long Sweep.....	122.23		38.94	
	For Below Ground Installation, Add	2.92			
	For Work In Restricted Working Space, Add	17.54			
22 13 16 00-0289	EA 4" x 3" No Hub Cast Iron Reducing Long Sweep.....	184.35		51.52	
	For Below Ground Installation, Add	3.87			
	For Work In Restricted Working Space, Add	23.20			
22 13 16 00-0290	No Hub Cast Iron Short Sweeps (22 13 16 00-0278)				
22 13 16 00-0291	EA 2" No Hub Cast Iron Short Sweep.....	73.10		34.03	
	For Below Ground Installation, Add	2.55			
	For Work In Restricted Working Space, Add	15.30			
22 13 16 00-0292	EA 3" No Hub Cast Iron Short Sweep.....	88.84		38.94	
	For Below Ground Installation, Add	2.92			
	For Work In Restricted Working Space, Add	17.54			
22 13 16 00-0293	EA 4" No Hub Cast Iron Short Sweep.....	127.04		51.52	
	For Below Ground Installation, Add	3.87			
	For Work In Restricted Working Space, Add	23.20			
22 13 16 00-0294	EA 5" No Hub Cast Iron Short Sweep.....	181.80		56.68	
	For Below Ground Installation, Add	4.25			
	For Work In Restricted Working Space, Add	25.48			
22 13 16 00-0295	EA 6" No Hub Cast Iron Short Sweep.....	200.44		67.57	
	For Below Ground Installation, Add	5.07			
	For Work In Restricted Working Space, Add	30.41			



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0296	EA		8" No Hub Cast Iron Short Sweep	397.98	87.47
			For Below Ground Installation, Add	6.56	
			For Work In Restricted Working Space, Add	39.36	
22 13 16 00-0297	EA		10" No Hub Cast Iron Short Sweep	652.93	122.49
			For Below Ground Installation, Add	9.18	
			For Work In Restricted Working Space, Add	55.10	
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)					
22 13 16 00-0299	EA		1-1/2" No Hub Cast Iron 1/4 Bend	66.06	32.60
			For Below Ground Installation, Add	2.45	
			For Work In Restricted Working Space, Add	14.67	
22 13 16 00-0300	EA		2" No Hub Cast Iron 1/4 Bend	69.12	34.03
			For Below Ground Installation, Add	2.55	
			For Work In Restricted Working Space, Add	15.30	
22 13 16 00-0301	EA		3" No Hub Cast Iron 1/4 Bend	82.37	38.94
			For Below Ground Installation, Add	2.92	
			For Work In Restricted Working Space, Add	17.54	
22 13 16 00-0302	EA		4" No Hub Cast Iron 1/4 Bend	112.75	51.52
			For Below Ground Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.20	
22 13 16 00-0303	EA		5" No Hub Cast Iron 1/4 Bend	164.05	56.68
			For Below Ground Installation, Add	4.25	
			For Work In Restricted Working Space, Add	25.48	
22 13 16 00-0304	EA		6" No Hub Cast Iron 1/4 Bend	189.08	67.57
			For Below Ground Installation, Add	5.07	
			For Work In Restricted Working Space, Add	30.41	
22 13 16 00-0305	EA		8" No Hub Cast Iron 1/4 Bend	364.89	87.47
			For Below Ground Installation, Add	6.56	
			For Work In Restricted Working Space, Add	39.36	
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0307	EA		1-1/2" No Hub Cast Iron 1/8 Bend	62.37	32.60
			For Below Ground Installation, Add	2.45	
			For Work In Restricted Working Space, Add	14.67	
22 13 16 00-0308	EA		2" No Hub Cast Iron 1/8 Bend	64.75	34.03
			For Below Ground Installation, Add	2.55	
			For Work In Restricted Working Space, Add	15.30	
22 13 16 00-0309	EA		3" No Hub Cast Iron 1/8 Bend	78.08	38.94
			For Below Ground Installation, Add	2.92	
			For Work In Restricted Working Space, Add	17.54	
22 13 16 00-0310	EA		4" No Hub Cast Iron 1/8 Bend	103.12	51.52
			For Below Ground Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.20	
22 13 16 00-0311	EA		6" No Hub Cast Iron 1/8 Bend	173.02	76.09
			For Below Ground Installation, Add	5.71	
			For Work In Restricted Working Space, Add	34.24	
22 13 16 00-0312	EA		8" No Hub Cast Iron 1/8 Bend	306.53	99.94
			For Below Ground Installation, Add	7.49	
			For Work In Restricted Working Space, Add	44.94	
22 13 16 00-0313	EA		10" No Hub Cast Iron 1/8 Bend	480.01	122.95
			For Below Ground Installation, Add	9.22	
			For Work In Restricted Working Space, Add	55.31	
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)					
22 13 16 00-0315	EA		1-1/2" No Hub Cast Iron Wye	100.73	51.29
			For Below Ground Installation, Add	3.84	
			For Work In Restricted Working Space, Add	23.04	
22 13 16 00-0316	EA		2" No Hub Cast Iron Wye	128.42	69.50
			For Below Ground Installation, Add	5.21	
			For Work In Restricted Working Space, Add	31.26	
22 13 16 00-0317	EA		3" No Hub Cast Iron Wye	147.22	76.09
			For Below Ground Installation, Add	5.71	
			For Work In Restricted Working Space, Add	34.24	
22 13 16 00-0318	EA		4" No Hub Cast Iron Wye	203.49	99.94
			For Below Ground Installation, Add	7.49	
			For Work In Restricted Working Space, Add	44.94	
22 13 16 00-0319	EA		5" No Hub Cast Iron Wye	281.61	110.33
			For Below Ground Installation, Add	8.27	
			For Work In Restricted Working Space, Add	49.62	
22 13 16 00-0320	EA		6" No Hub Cast Iron Wye	334.14	130.98
			For Below Ground Installation, Add	9.82	
			For Work In Restricted Working Space, Add	58.93	
22 13 16 00-0321	EA		8" No Hub Cast Iron Wye	585.97	175.07
			For Below Ground Installation, Add	13.12	
			For Work In Restricted Working Space, Add	78.72	
22 13 16 00-0322	EA		10" No Hub Cast Iron Wye	992.17	194.46
			For Below Ground Installation, Add	14.58	
			For Work In Restricted Working Space, Add	87.47	
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)					

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 13 16 00-0324	EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.54 4.97 29.83		66.39	
22 13 16 00-0325	EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.23 5.71 34.24		76.09	
22 13 16 00-0326	EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.53 6.31 37.84		84.12	
22 13 16 00-0327	EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.90 7.01 42.05		93.47	
22 13 16 00-0328	EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	241.41 8.36 50.15		111.45	
22 13 16 00-0329	EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.30 8.73 52.38		116.50	
22 13 16 00-0330	EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	295.75 10.20 61.22		136.15	
22 13 16 00-0331	EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	391.63 10.32 61.91		137.64	
22 13 16 00-0332	EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	455.56 11.34 68.03		151.30	
22 13 16 00-0333	EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	726.20 12.08 72.50		161.17	
22 13 16 00-0334	EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	765.64 12.94 77.61		172.54	
22 13 16 00-0335	EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	884.98 13.81 82.86		184.25	
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0337	EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.64 4.47 26.83		59.67	
22 13 16 00-0338	EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.40 5.21 31.26		69.50	
22 13 16 00-0339	EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	154.59 5.71 34.24		76.09	
22 13 16 00-0340	EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	224.33 7.49 44.94		99.94	
22 13 16 00-0341	EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	418.10 11.52 69.13		153.74	
22 13 16 00-0342	EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	766.56 14.79 88.72		197.25	
22 13 16 00-0343	EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	898.12 17.87 107.25		238.46	
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0345	EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	130.60 5.21 31.26		69.50	
22 13 16 00-0346	EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	143.91 5.71 34.24		76.09	
22 13 16 00-0347	EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.91 6.31 37.84		84.12	
22 13 16 00-0348	EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	192.05 7.01 42.05		93.47	
22 13 16 00-0349	EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.84 8.36 50.15		111.45	
22 13 16 00-0350	EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	295.76 8.73 52.38		116.50	
22 13 16 00-0351	EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	328.55 10.20 61.22		136.15	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0352	EA		8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	452.93	137.64
			For Below Ground Installation, Add	10.32	
			For Work In Restricted Working Space, Add	61.91	
22 13 16 00-0353	EA		8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	595.68	151.30
			For Below Ground Installation, Add	11.34	
			For Work In Restricted Working Space, Add	68.03	
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)					
22 13 16 00-0355	EA		2" No Hub Cast Iron Double Wye	163.32	86.39
			For Below Ground Installation, Add	6.48	
			For Work In Restricted Working Space, Add	38.87	
22 13 16 00-0356	EA		3" No Hub Cast Iron Double Wye	219.95	105.21
			For Below Ground Installation, Add	7.88	
			For Work In Restricted Working Space, Add	47.30	
22 13 16 00-0357	EA		4" No Hub Cast Iron Double Wye	300.57	115.03
			For Below Ground Installation, Add	8.62	
			For Work In Restricted Working Space, Add	51.72	
22 13 16 00-0358	EA		6" No Hub Cast Iron Double Wye	468.28	165.10
			For Below Ground Installation, Add	12.37	
			For Work In Restricted Working Space, Add	74.24	
22 13 16 00-0359	EA		8" No Hub Cast Iron Double Wye	931.98	222.71
			For Below Ground Installation, Add	16.70	
			For Work In Restricted Working Space, Add	100.19	
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)					
22 13 16 00-0361	EA		3" x 2" No Hub Cast Iron Double Wye	196.91	95.75
			For Below Ground Installation, Add	7.18	
			For Work In Restricted Working Space, Add	43.05	
22 13 16 00-0362	EA		4" x 2" No Hub Cast Iron Double Wye	237.03	110.25
			For Below Ground Installation, Add	8.26	
			For Work In Restricted Working Space, Add	49.58	
22 13 16 00-0363	EA		4" x 3" No Hub Cast Iron Double Wye	261.13	120.19
			For Below Ground Installation, Add	9.01	
			For Work In Restricted Working Space, Add	54.06	
22 13 16 00-0364	EA		6" x 4" No Hub Cast Iron Double Wye	397.32	145.58
			For Below Ground Installation, Add	10.91	
			For Work In Restricted Working Space, Add	65.47	
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0366	EA		2" No Hub Cast Iron Double Combination Wye And 1/8 Bend	214.81	103.77
			For Below Ground Installation, Add	7.78	
			For Work In Restricted Working Space, Add	46.69	
22 13 16 00-0367	EA		3" No Hub Cast Iron Double Combination Wye And 1/8 Bend	264.09	115.03
			For Below Ground Installation, Add	8.62	
			For Work In Restricted Working Space, Add	51.72	
22 13 16 00-0368	EA		4" No Hub Cast Iron Double Combination Wye And 1/8 Bend	403.35	152.31
			For Below Ground Installation, Add	11.41	
			For Work In Restricted Working Space, Add	68.48	
22 13 16 00-0369	EA		6" No Hub Cast Iron Double Combination Wye And 1/8 Bend	556.87	235.11
			For Below Ground Installation, Add	17.62	
			For Work In Restricted Working Space, Add	105.73	
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0278)					
22 13 16 00-0371	EA		3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend	202.56	89.27
			For Below Ground Installation, Add	6.69	
			For Work In Restricted Working Space, Add	40.17	
22 13 16 00-0372	EA		4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend	234.75	103.77
			For Below Ground Installation, Add	7.78	
			For Work In Restricted Working Space, Add	46.69	
22 13 16 00-0373	EA		4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend	284.97	113.36
			For Below Ground Installation, Add	8.50	
			For Work In Restricted Working Space, Add	50.99	
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees (22 13 16 00-0278)					
22 13 16 00-0375	EA		1-1/2" No Hub Cast Iron Sanitary Tee	98.08	50.21
			For Below Ground Installation, Add	3.77	
			For Work In Restricted Working Space, Add	22.61	
22 13 16 00-0376	EA		2" No Hub Cast Iron Sanitary Tee	129.62	69.50
			For Below Ground Installation, Add	5.21	
			For Work In Restricted Working Space, Add	31.26	
22 13 16 00-0377	EA		3" No Hub Cast Iron Sanitary Tee	144.52	76.09
			For Below Ground Installation, Add	5.71	
			For Work In Restricted Working Space, Add	34.24	
22 13 16 00-0378	EA		4" No Hub Cast Iron Sanitary Tee	197.33	99.94
			For Below Ground Installation, Add	7.49	
			For Work In Restricted Working Space, Add	44.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0379	EA		5" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	282.89 8.27 49.62	110.33
22 13 16 00-0380	EA		6" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	333.23 9.82 58.93	130.98
22 13 16 00-0381	EA		8" No Hub Cast Iron Sanitary Tee..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	662.01 13.12 78.72	175.07
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees (22 13 16 00-0278)					
22 13 16 00-0383	EA		2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.41 4.25 25.50	56.68
22 13 16 00-0384	EA		3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.65 4.97 29.83	66.39
22 13 16 00-0385	EA		3" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.41 5.21 31.26	69.50
22 13 16 00-0386	EA		3" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.51 5.21 31.26	69.50
22 13 16 00-0387	EA		4" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.16 7.05 42.29	94.07
22 13 16 00-0388	EA		4" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.23 7.05 42.29	94.07
22 13 16 00-0389	EA		5" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	241.14 7.86 47.14	104.83
22 13 16 00-0390	EA		5" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	251.00 7.86 47.14	104.83
22 13 16 00-0391	EA		5" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.20 7.86 47.14	104.83
22 13 16 00-0392	EA		6" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.53 8.18 49.10	109.21
22 13 16 00-0393	EA		8" x 6" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	519.07 11.07 66.39	147.63
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)					
22 13 16 00-0395	EA		2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.49 2.55 15.30	34.03
22 13 16 00-0396	EA		3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.06 2.92 17.54	38.94
22 13 16 00-0397	EA		4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.61 3.87 23.20	51.52
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0399	EA		2" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.05 2.55 15.30	34.03
22 13 16 00-0400	EA		3" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.30 2.92 17.54	38.94
22 13 16 00-0401	EA		4" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.81 3.87 23.20	51.52
22 13 16 00-0402	EA		6" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.18 5.71 34.24	76.09
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)					
22 13 16 00-0404	EA		4" No Hub Cast Iron Single Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.67 7.49 44.94	99.94
22 13 16 00-0405	EA		4" No Hub Cast Iron Double Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	385.42 11.38 68.30	151.82
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)					



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0407	EA		2" No Hub Cast Iron Cleanout Plug	59.94	34.03
			For Below Ground Installation, Add	2.55	
			For Work In Restricted Working Space, Add	15.30	
22 13 16 00-0408	EA		3" No Hub Cast Iron Cleanout Plug	72.52	38.94
			For Below Ground Installation, Add	2.92	
			For Work In Restricted Working Space, Add	17.54	
22 13 16 00-0409	EA		4" No Hub Cast Iron Cleanout Plug	104.02	51.52
			For Below Ground Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.20	
22 13 16 00-0410	EA		6" No Hub Cast Iron Cleanout Plug	164.00	76.09
			For Below Ground Installation, Add	5.71	
			For Work In Restricted Working Space, Add	34.24	
22 13 16 00-0411	EA		8" No Hub Cast Iron Cleanout Plug	218.31	99.94
			For Below Ground Installation, Add	7.49	
			For Work In Restricted Working Space, Add	44.94	
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0413	EA		1-1/2" No Hub Cast Iron Sanitary Cross	131.38	67.11
			For Below Ground Installation, Add	5.03	
			For Work In Restricted Working Space, Add	30.21	
22 13 16 00-0414	EA		2" No Hub Cast Iron Sanitary Cross	142.56	69.50
			For Below Ground Installation, Add	5.21	
			For Work In Restricted Working Space, Add	31.26	
22 13 16 00-0415	EA		3" No Hub Cast Iron Sanitary Cross	174.53	76.09
			For Below Ground Installation, Add	5.71	
			For Work In Restricted Working Space, Add	34.24	
22 13 16 00-0416	EA		4" No Hub Cast Iron Sanitary Cross	263.29	99.94
			For Below Ground Installation, Add	7.49	
			For Work In Restricted Working Space, Add	44.94	
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)					
22 13 16 00-0418	EA		3" x 2" No Hub Cast Iron Sanitary Cross	188.17	89.27
			For Below Ground Installation, Add	6.69	
			For Work In Restricted Working Space, Add	40.16	
22 13 16 00-0419	EA		4" x 2" No Hub Cast Iron Sanitary Cross	214.52	91.91
			For Below Ground Installation, Add	6.69	
			For Work In Restricted Working Space, Add	41.34	
22 13 16 00-0420	EA		4" x 3" No Hub Cast Iron Sanitary Cross	236.42	95.99
			For Below Ground Installation, Add	7.19	
			For Work In Restricted Working Space, Add	43.15	
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)					
22 13 16 00-0422	EA		3" x 2" No Hub Cast Iron Reducer	117.06	69.50
			For Below Ground Installation, Add	5.21	
			For Work In Restricted Working Space, Add	31.26	
22 13 16 00-0423	EA		4" x 2" No Hub Cast Iron Reducer	160.61	94.07
			For Below Ground Installation, Add	7.05	
			For Work In Restricted Working Space, Add	42.29	
22 13 16 00-0424	EA		4" x 3" No Hub Cast Iron Reducer	161.21	94.07
			For Below Ground Installation, Add	7.05	
			For Work In Restricted Working Space, Add	42.29	
22 13 16 00-0425	EA		5" x 2" No Hub Cast Iron Reducer	185.94	104.83
			For Below Ground Installation, Add	7.86	
			For Work In Restricted Working Space, Add	47.14	
22 13 16 00-0426	EA		5" x 3" No Hub Cast Iron Reducer	189.92	104.83
			For Below Ground Installation, Add	7.86	
			For Work In Restricted Working Space, Add	47.14	
22 13 16 00-0427	EA		5" x 4" No Hub Cast Iron Reducer	191.50	104.83
			For Below Ground Installation, Add	7.86	
			For Work In Restricted Working Space, Add	47.14	
22 13 16 00-0428	EA		6" x 3" No Hub Cast Iron Reducer	224.31	116.50
			For Below Ground Installation, Add	8.73	
			For Work In Restricted Working Space, Add	52.38	
22 13 16 00-0429	EA		6" x 4" No Hub Cast Iron Reducer	224.91	116.50
			For Below Ground Installation, Add	8.73	
			For Work In Restricted Working Space, Add	52.38	
22 13 16 00-0430	EA		6" x 5" No Hub Cast Iron Reducer	226.71	116.50
			For Below Ground Installation, Add	8.73	
			For Work In Restricted Working Space, Add	52.38	
22 13 16 00-0431	EA		8" x 2" No Hub Cast Iron Reducer	311.17	163.36
			For Below Ground Installation, Add	12.25	
			For Work In Restricted Working Space, Add	73.47	
22 13 16 00-0432	EA		8" x 3" No Hub Cast Iron Reducer	315.76	163.36
			For Below Ground Installation, Add	12.25	
			For Work In Restricted Working Space, Add	73.47	
22 13 16 00-0433	EA		8" x 4" No Hub Cast Iron Reducer	323.13	163.36
			For Below Ground Installation, Add	12.25	
			For Work In Restricted Working Space, Add	73.47	
22 13 16 00-0434	EA		8" x 5" No Hub Cast Iron Reducer	330.80	163.36
			For Below Ground Installation, Add	12.25	
			For Work In Restricted Working Space, Add	73.47	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0435	EA		8" x 6" No Hub Cast Iron Reducer	331.71	163.36
			For Below Ground Installation, Add	12.25	
			For Work In Restricted Working Space, Add	73.47	
22 13 16 00-0436	EA		10" x 4" No Hub Cast Iron Reducer	400.59	172.32
			For Below Ground Installation, Add	12.91	
			For Work In Restricted Working Space, Add	77.49	
22 13 16 00-0437	EA		10" x 6" No Hub Cast Iron Reducer	429.23	179.89
			For Below Ground Installation, Add	13.49	
			For Work In Restricted Working Space, Add	80.93	
22 13 16 00-0438	EA		10" x 8" No Hub Cast Iron Reducer	483.78	195.27
			For Below Ground Installation, Add	14.64	
			For Work In Restricted Working Space, Add	87.82	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)					
22 13 16 00-0440	EA		1-1/2" No Hub Cast Iron Blind Plug.....	31.83	16.31
			For Below Ground Installation, Add	1.22	
			For Work In Restricted Working Space, Add	7.34	
22 13 16 00-0441	EA		2" No Hub Cast Iron Blind Plug.....	32.57	17.02
			For Below Ground Installation, Add	1.28	
			For Work In Restricted Working Space, Add	7.65	
22 13 16 00-0442	EA		3" No Hub Cast Iron Blind Plug.....	41.79	19.53
			For Below Ground Installation, Add	1.46	
			For Work In Restricted Working Space, Add	8.77	
22 13 16 00-0443	EA		4" No Hub Cast Iron Blind Plug.....	55.47	25.76
			For Below Ground Installation, Add	1.93	
			For Work In Restricted Working Space, Add	11.59	
22 13 16 00-0444	EA		5" No Hub Cast Iron Blind Plug.....	74.51	28.84
			For Below Ground Installation, Add	2.16	
			For Work In Restricted Working Space, Add	12.97	
22 13 16 00-0445	EA		6" No Hub Cast Iron Blind Plug.....	82.32	33.78
			For Below Ground Installation, Add	2.54	
			For Work In Restricted Working Space, Add	15.22	
22 13 16 00-0446	EA		8" No Hub Cast Iron Blind Plug.....	165.21	43.74
			For Below Ground Installation, Add	3.28	
			For Work In Restricted Working Space, Add	19.67	
22 13 16 00-0447	EA		10" No Hub Cast Iron Blind Plug.....	213.89	47.06
			For Below Ground Installation, Add	3.53	
			For Work In Restricted Working Space, Add	21.18	
22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)					
22 13 16 00-0449	EA		2" No Hub Cast Iron P-Trap	77.09	34.03
			For Below Ground Installation, Add	2.55	
			For Work In Restricted Working Space, Add	15.30	
22 13 16 00-0450	EA		3" No Hub Cast Iron P-Trap	117.94	38.94
			For Below Ground Installation, Add	2.92	
			For Work In Restricted Working Space, Add	17.54	
22 13 16 00-0451	EA		4" No Hub Cast Iron P-Trap	180.66	51.52
			For Below Ground Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.20	
22 13 16 00-0452	EA		5" No Hub Cast Iron P-Trap	322.07	57.13
			For Below Ground Installation, Add	4.28	
			For Work In Restricted Working Space, Add	25.68	
22 13 16 00-0453	EA		6" No Hub Cast Iron P-Trap	338.84	68.13
			For Below Ground Installation, Add	5.11	
			For Work In Restricted Working Space, Add	30.64	
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)					
22 13 16 00-0455	EA		2" No Hub Cast Iron Deep Seal P-Trap	127.05	43.26
			For Below Ground Installation, Add	3.24	
			For Work In Restricted Working Space, Add	19.43	
22 13 16 00-0456	EA		3" No Hub Cast Iron Deep Seal P-Trap	185.57	57.52
			For Below Ground Installation, Add	4.31	
			For Work In Restricted Working Space, Add	25.86	
22 13 16 00-0457	EA		4" No Hub Cast Iron Deep Seal P-Trap	273.29	75.97
			For Below Ground Installation, Add	5.69	
			For Work In Restricted Working Space, Add	34.15	
22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)					
22 13 16 00-0459	EA		4" No Hub Cast Iron Closet Flange.....	118.69	51.52
			For Below Ground Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.20	
22 13 16 00-0460	EA		4" x 2-1/2" No Hub Cast Iron Offset Closet Flange	127.27	51.52
			For Below Ground Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.20	
22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)					
22 13 16 00-0462	EA		4" x 16" No Hub Cast Iron Closet Bend	239.25	51.52
			For Below Ground Installation, Add	3.87	
			For Work In Restricted Working Space, Add	23.20	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0463			No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0464	EA		1-1/4" No Hub Cast Iron Threaded Adapter.....	87.18	43.26
			For Below Ground Installation, Add	3.24	
			For Work In Restricted Working Space, Add	19.43	
22 13 16 00-0465	EA		1-1/2" No Hub Cast Iron Threaded Adapter.....	94.10	43.26
			For Below Ground Installation, Add	3.24	
			For Work In Restricted Working Space, Add	19.43	
22 13 16 00-0466			No Hub Couplings (22 13 16 00-0278)		
			Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH). Labor costs are included in the installation costs for fittings.		
22 13 16 00-0467	EA		1-1/2" No Hub Coupling.....	9.22	
			For Medium Duty (Fernco MD-2000), Add	1.20	
			For Heavy-Duty (Fernco HD-4000), Add	2.49	
22 13 16 00-0468	EA		2" No Hub Coupling.....	9.22	
			For Medium Duty (Fernco MD-2000), Add	1.20	
			For Heavy-Duty (Fernco HD-4000), Add	2.49	
22 13 16 00-0469	EA		3" No Hub Coupling.....	10.95	
			For Medium Duty (Fernco MD-2000), Add	1.42	
			For Heavy-Duty (Fernco HD-4000), Add	2.96	
22 13 16 00-0470	EA		4" No Hub Coupling.....	13.00	
			For Medium Duty (Fernco MD-2000), Add	1.69	
			For Heavy-Duty (Fernco HD-4000), Add	3.51	
22 13 16 00-0471	EA		5" No Hub Coupling.....	30.06	
			For Medium Duty (Fernco MD-2000), Add	3.91	
			For Heavy-Duty (Fernco HD-4000), Add	8.12	
22 13 16 00-0472	EA		6" No Hub Coupling.....	33.03	
			For Medium Duty (Fernco MD-2000), Add	4.29	
			For Heavy-Duty (Fernco HD-4000), Add	8.92	
22 13 16 00-0473	EA		8" No Hub Coupling.....	62.23	
			For Medium Duty (Fernco MD-2000), Add	8.09	
			For Heavy-Duty (Fernco HD-4000), Add	16.80	
22 13 16 00-0474	EA		10" No Hub Coupling.....	85.73	
			For Medium Duty (Fernco MD-2000), Add	11.14	
			For Heavy-Duty (Fernco HD-4000), Add	23.15	
22 13 16 00-0475	EA		2" x 1-1/2" No Hub Reducing Coupling.....	10.95	
22 13 16 00-0476	EA		3" x 2" No Hub Reducing Coupling.....	16.98	
22 13 16 00-0477	EA		4" x 2" No Hub Reducing Coupling.....	23.69	
22 13 16 00-0478	EA		4" x 3" No Hub Reducing Coupling.....	20.19	
22 13 16 00-0479			Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts (22 13 16 00-0278)		
			Note: For underground connections. Labor costs are included in the installation costs for fittings. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.		
22 13 16 00-0480	EA		1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	49.55	
22 13 16 00-0481	EA		2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	51.14	
22 13 16 00-0482	EA		3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	53.70	
22 13 16 00-0483	EA		4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	62.65	
22 13 16 00-0484	EA		5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	118.27	
22 13 16 00-0485	EA		6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	162.38	
22 13 16 00-0486	EA		8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	284.49	
22 13 16 00-0487	EA		10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	434.73	
22 13 16 00-0488			Cut And Prepare Existing Pipe In-Place (22 13 16 00-0268)		
			Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489	EA		Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub.....	11.71	
			For Work In Restricted Working Space, Add	3.51	
22 13 16 00-0490	EA		Cut And Prepare 2" Cast Iron Pipe, No Hub.....	14.31	
			For Work In Restricted Working Space, Add	4.29	
22 13 16 00-0491	EA		Cut And Prepare 3" Cast Iron Pipe, No Hub.....	15.61	
			For Work In Restricted Working Space, Add	4.68	
22 13 16 00-0492	EA		Cut And Prepare 4" Cast Iron Pipe, No Hub.....	19.52	
			For Work In Restricted Working Space, Add	5.86	
22 13 16 00-0493	EA		Cut And Prepare 6" Cast Iron Pipe, No Hub.....	23.41	
			For Work In Restricted Working Space, Add	7.02	
22 13 16 00-0494	EA		Cut And Prepare 8" Cast Iron Pipe, No Hub.....	31.23	
			For Work In Restricted Working Space, Add	9.37	
22 13 16 00-0495	EA		Cut And Prepare 10" Cast Iron Pipe, No Hub.....	36.43	
			For Work In Restricted Working Space, Add	10.93	
22 13 16 00-0496			Copper Drain-Waste-Vent (DWV) Pipe (22 13 16)		
			See CSI section 22 11 16 00-0451 for copper and brass fittings.		
22 13 16 00-0497	LF		1-1/4" Hard Drawn DWV Copper Tube/Pipe.....	20.23	5.63
22 13 16 00-0498	LF		1-1/2" Hard Drawn DWV Copper Tube/Pipe.....	24.22	6.29
22 13 16 00-0499	LF		2" Hard Drawn DWV Copper Tube/Pipe.....	31.25	7.75
22 13 16 00-0500	LF		3" Hard Drawn DWV Copper Tube/Pipe.....	66.42	10.74
22 13 16 00-0501	LF		4" Hard Drawn DWV Copper Tube/Pipe.....	93.84	12.13
22 13 16 00-0502	LF		5" Hard Drawn DWV Copper Tube/Pipe.....	188.05	13.93

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0503	LF	6" Hard Drawn DWV Copper Tube/Pipe	267.57	21.58
22 13 16 00-0504		Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation. See CSI section 33 31 11 00-0019 for underground installation.		
22 13 16 00-0505		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0504)		
22 13 16 00-0506		Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0505) Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available. Not for use where detail is available.		
22 13 16 00-0507	LF	1-1/2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	13.95 2.81	
22 13 16 00-0508	LF	2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	16.69 3.41	
22 13 16 00-0509	LF	3" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	27.49 4.83	
22 13 16 00-0510	LF	4" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	35.57 5.32	
22 13 16 00-0511	LF	6" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	64.96 6.85	
22 13 16 00-0512	LF	8" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	92.94 9.16	
22 13 16 00-0513	LF	10" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	134.72 12.21	
22 13 16 00-0514		Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies (22 13 16 00-0505) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0515	LF	1-1/2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	27.61 5.77	5.03
22 13 16 00-0516	LF	2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	30.99 6.41	5.99
22 13 16 00-0517	LF	3" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	43.81 7.97	8.62
22 13 16 00-0518	LF	4" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	55.76 8.70	9.35
22 13 16 00-0519	LF	6" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	88.48 11.15	11.99
22 13 16 00-0520	LF	8" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	116.99 12.78	15.94
22 13 16 00-0521	LF	10" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	164.53 16.66	21.33
22 13 16 00-0522		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: Excludes fittings or hangers.		
22 13 16 00-0523		Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) (22 13 16 00-0522) Note: Excludes fittings or hangers.		
22 13 16 00-0524	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	10.51 2.25	5.03
22 13 16 00-0525	LF	2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	12.94 2.69	5.99
22 13 16 00-0526	LF	3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	20.82 3.87	8.62



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

22

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 13 16 00-0527	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	25.17 4.19		9.35
22 13 16 00-0528	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	36.79 5.04		11.23
22 13 16 00-0529	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	52.76 6.74		14.93
22 13 16 00-0530	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	76.35 8.98		19.97
22 13 16 00-0531 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) (22 13 16 00-0522) Note: Excludes fittings or hangers.				
22 13 16 00-0532	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	9.61 2.25		5.03
22 13 16 00-0533	LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	11.87 2.69		5.99
22 13 16 00-0534	LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	18.80 3.87		8.62
22 13 16 00-0535	LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	22.49 4.19		9.35
22 13 16 00-0536	LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	31.80 5.04		11.23
22 13 16 00-0537	LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	45.74 6.74		14.93
22 13 16 00-0538	LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	68.72 8.98		19.97
22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) (22 13 16 00-0504)				
22 13 16 00-0540 Polyvinyl Chloride (PVC) DWV 1/4 Bends (22 13 16 00-0539)				
22 13 16 00-0541	EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	38.63 8.99		20.02
22 13 16 00-0542	EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	49.35 11.50		25.52
22 13 16 00-0543	EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	85.71 15.46		34.27
22 13 16 00-0544	EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	132.47 17.98		39.90
22 13 16 00-0545	EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	519.36 23.37		51.89
22 13 16 00-0546	EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	861.05 31.46		69.86
22 13 16 00-0547	EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	1,136.79 41.94		93.11
22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0539)				
22 13 16 00-0549	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	62.98 8.99		20.02
22 13 16 00-0550	EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	63.36 11.50		25.52
22 13 16 00-0551	EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	121.73 15.46		34.27
22 13 16 00-0552	EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	198.52 17.98		39.90
22 13 16 00-0553	EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	391.78 23.37		51.89
22 13 16 00-0554	EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	693.39 31.46		69.86
22 13 16 00-0555	EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	1,133.78 41.94		93.11
22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0539)				
22 13 16 00-0557	EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	40.63 8.99		20.02
22 13 16 00-0558	EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	49.18 11.50		25.52
22 13 16 00-0559	EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	82.71 15.46		34.27
22 13 16 00-0560	EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	117.79 17.98		39.90
22 13 16 00-0561	EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	482.00 23.37		51.89
22 13 16 00-0562	EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	774.22 31.46		69.86
22 13 16 00-0563	EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	881.36 41.94		93.11
22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0539)				



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0565	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	60.45	29.96
		<i>For Work In Restricted Working Space, Add</i>	13.48	
22 13 16 00-0566	EA	2" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	79.70	38.34
		<i>For Work In Restricted Working Space, Add</i>	17.26	
22 13 16 00-0567	EA	3" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	136.34	51.52
		<i>For Work In Restricted Working Space, Add</i>	23.19	
22 13 16 00-0568	EA	4" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	202.46	59.92
		<i>For Work In Restricted Working Space, Add</i>	26.96	
22 13 16 00-0569	EA	6" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	771.64	77.77
		<i>For Work In Restricted Working Space, Add</i>	35.05	
22 13 16 00-0570	EA	8" Polyvinyl Chloride (PVC) DWV Sanitary Tees.....	1,003.79	104.73
		<i>For Work In Restricted Working Space, Add</i>	47.18	
22 13 16 00-0571 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0539)				
22 13 16 00-0572	EA	2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	77.15	32.71
		<i>For Work In Restricted Working Space, Add</i>	14.74	
22 13 16 00-0573	EA	2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	92.02	35.47
		<i>For Work In Restricted Working Space, Add</i>	16.00	
22 13 16 00-0574	EA	2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	75.50	35.47
		<i>For Work In Restricted Working Space, Add</i>	16.00	
22 13 16 00-0575	EA	3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	111.71	44.33
		<i>For Work In Restricted Working Space, Add</i>	19.95	
22 13 16 00-0576	EA	3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	113.73	47.09
		<i>For Work In Restricted Working Space, Add</i>	21.21	
22 13 16 00-0577	EA	4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	135.60	49.85
		<i>For Work In Restricted Working Space, Add</i>	22.47	
22 13 16 00-0578	EA	4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	231.69	52.73
		<i>For Work In Restricted Working Space, Add</i>	23.73	
22 13 16 00-0579	EA	4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	293.15	57.04
		<i>For Work In Restricted Working Space, Add</i>	25.70	
22 13 16 00-0580	EA	6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	741.10	71.78
		<i>For Work In Restricted Working Space, Add</i>	32.35	
22 13 16 00-0581	EA	8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	2,339.14	89.76
		<i>For Work In Restricted Working Space, Add</i>	40.44	
22 13 16 00-0582	EA	8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees.....	2,419.19	95.75
		<i>For Work In Restricted Working Space, Add</i>	43.14	
22 13 16 00-0583 Polyvinyl Chloride (PVC) DWV Double Sanitary Tees (22 13 16 00-0539)				
22 13 16 00-0584	EA	1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees	106.62	39.90
		<i>For Work In Restricted Working Space, Add</i>	17.98	
22 13 16 00-0585	EA	2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	145.07	51.05
		<i>For Work In Restricted Working Space, Add</i>	23.01	
22 13 16 00-0586	EA	3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	294.86	68.66
		<i>For Work In Restricted Working Space, Add</i>	30.92	
22 13 16 00-0587	EA	4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees.....	428.20	79.81
		<i>For Work In Restricted Working Space, Add</i>	35.95	
22 13 16 00-0588 Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees (22 13 16 00-0539)				
22 13 16 00-0589	EA	2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	130.12	45.53
		<i>For Work In Restricted Working Space, Add</i>	20.49	
22 13 16 00-0590	EA	3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	226.67	54.28
		<i>For Work In Restricted Working Space, Add</i>	24.45	
22 13 16 00-0591	EA	3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	261.90	59.92
		<i>For Work In Restricted Working Space, Add</i>	26.96	
22 13 16 00-0592	EA	4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	477.08	65.43
		<i>For Work In Restricted Working Space, Add</i>	29.48	
22 13 16 00-0593	EA	4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee	500.66	74.17
		<i>For Work In Restricted Working Space, Add</i>	33.43	
22 13 16 00-0594 Polyvinyl Chloride (PVC) DWV Reducers (22 13 16 00-0539)				
22 13 16 00-0595	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers.....	51.50	22.77
		<i>For Work In Restricted Working Space, Add</i>	10.25	
22 13 16 00-0596	EA	3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers.....	96.11	27.08
		<i>For Work In Restricted Working Space, Add</i>	12.22	
22 13 16 00-0597	EA	3" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....	91.30	29.96
		<i>For Work In Restricted Working Space, Add</i>	13.48	
22 13 16 00-0598	EA	4" x 2" Polyvinyl Chloride (PVC) DWV Reducers.....	140.86	32.71
		<i>For Work In Restricted Working Space, Add</i>	14.74	
22 13 16 00-0599	EA	4" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....	151.62	37.14
		<i>For Work In Restricted Working Space, Add</i>	16.72	
22 13 16 00-0600	EA	6" x 3" Polyvinyl Chloride (PVC) DWV Reducers.....	549.20	43.14
		<i>For Work In Restricted Working Space, Add</i>	19.41	
22 13 16 00-0601	EA	6" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....	458.00	45.90
		<i>For Work In Restricted Working Space, Add</i>	20.67	
22 13 16 00-0602	EA	8" x 4" Polyvinyl Chloride (PVC) DWV Reducers.....	1,150.04	54.89
		<i>For Work In Restricted Working Space, Add</i>	24.71	
22 13 16 00-0603	EA	8" x 6" Polyvinyl Chloride (PVC) DWV Reducers.....	969.81	60.87
		<i>For Work In Restricted Working Space, Add</i>	27.41	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
22 13 16 00-0604	EA 10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	1,304.48 32.65		72.50
22 13 16 00-0605	EA 10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	1,019.30 36.70		81.49
22 13 16 00-0606	Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0539)			
22 13 16 00-0607	EA 1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	75.30 13.48		29.96
22 13 16 00-0608	EA 2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	98.88 17.26		38.34
22 13 16 00-0609	EA 3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	283.28 23.19		51.52
22 13 16 00-0610	EA 4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	580.38 26.96		59.92
22 13 16 00-0611	EA 6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	984.08 35.05		77.77
22 13 16 00-0612	Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0539)			
22 13 16 00-0613	EA 4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	118.13 17.98		39.90
22 13 16 00-0614	EA 4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	96.41 16.72		37.14
22 13 16 00-0615	Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0539)			
22 13 16 00-0616	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	75.96 13.48		29.96
22 13 16 00-0617	EA 2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	88.71 17.26		38.34
22 13 16 00-0618	EA 3" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	147.85 23.19		51.52
22 13 16 00-0619	EA 4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	221.30 26.96		59.92
22 13 16 00-0620	EA 6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	700.93 35.05		77.77
22 13 16 00-0621	EA 8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	869.46 47.18		104.73
22 13 16 00-0622	EA 10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	1,144.21 62.91		139.60
22 13 16 00-0623	Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0539)			
22 13 16 00-0624	EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	104.50 14.74		32.71
22 13 16 00-0625	EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	108.19 16.00		35.47
22 13 16 00-0626	EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	152.71 19.95		44.33
22 13 16 00-0627	EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	125.24 21.21		47.09
22 13 16 00-0628	EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	211.75 22.47		49.85
22 13 16 00-0629	EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	184.66 23.73		52.73
22 13 16 00-0630	EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	208.93 25.70		57.04
22 13 16 00-0631	EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	633.51 31.10		69.02
22 13 16 00-0632	EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	785.53 32.35		71.78
22 13 16 00-0633	EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	745.20 40.44		89.76
22 13 16 00-0634	EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	942.46 43.14		95.75
22 13 16 00-0635	EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	857.46 50.93		113.00
22 13 16 00-0636	EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	1,070.98 53.62		118.99
22 13 16 00-0637	EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	1,247.79 57.67		127.98
22 13 16 00-0638	Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0539)			
22 13 16 00-0639	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	125.96 17.98		39.90
22 13 16 00-0640	EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	161.58 23.01		51.05
22 13 16 00-0641	EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	322.38 30.92		68.66
22 13 16 00-0642	EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	564.46 35.95		79.81

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0643 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,162.76 46.73	103.77
22 13 16 00-0644 EA 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,346.18 62.91	139.73
22 13 16 00-0645 EA 10" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	2,090.54 83.88	186.22
22 13 16 00-0646 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0539)		
22 13 16 00-0647 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	145.86 20.49	45.53
22 13 16 00-0648 EA 3" x 3" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	273.93 24.45	54.28
22 13 16 00-0649 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	253.16 26.96	59.92
22 13 16 00-0650 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	364.80 29.48	65.43
22 13 16 00-0651 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	463.51 33.43	74.17
22 13 16 00-0652 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	716.07 41.34	91.79
22 13 16 00-0653 EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	838.11 49.43	109.76
22 13 16 00-0654 EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,068.00 54.83	121.75
22 13 16 00-0655 EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,128.06 59.91	133.01
22 13 16 00-0656 EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,466.64 65.31	145.00
22 13 16 00-0657 EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,774.50 73.40	162.97
22 13 16 00-0658 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0659 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	95.31 13.48	29.96
22 13 16 00-0660 EA 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	118.89 17.26	38.34
22 13 16 00-0661 EA 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	238.57 23.19	51.52
22 13 16 00-0662 EA 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	424.77 26.96	59.92
22 13 16 00-0663 Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0664 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	180.41 16.00	35.47
22 13 16 00-0665 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	287.30 19.95	44.33
22 13 16 00-0666 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	208.69 21.21	47.09
22 13 16 00-0667 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	386.08 23.73	52.73
22 13 16 00-0668 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	418.19 25.70	57.04
22 13 16 00-0669 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0670 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	140.98 17.98	39.90
22 13 16 00-0671 EA 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	163.25 23.01	51.05
22 13 16 00-0672 EA 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	253.49 30.92	68.66
22 13 16 00-0673 EA 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	912.37 35.95	79.81
22 13 16 00-0674 EA 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	3,033.10 46.73	103.77
22 13 16 00-0675 Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0676 EA 2" x 2" x 1-1/2" x 1-1/2 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	333.52 20.49	45.53
22 13 16 00-0677 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	539.21 26.96	59.92
22 13 16 00-0678 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	935.68 29.48	65.43
22 13 16 00-0679 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	844.32 33.43	74.17



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 13 16 00-0680	EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... For Work In Restricted Working Space, Add	2,017.56 41.34		91.79
22 13 16 00-0681	Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0539)			
22 13 16 00-0682	EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	205.16 17.26		38.34
22 13 16 00-0683	EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	359.34 23.19		51.52
22 13 16 00-0684	EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	580.46 26.96		59.92
22 13 16 00-0685	EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	1,542.34 35.05		77.77
22 13 16 00-0686	EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	1,932.12 47.18		104.73
22 13 16 00-0687	EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug For Work In Restricted Working Space, Add	2,563.86 62.91		139.60
22 13 16 00-0688	Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug (22 13 16 00-0539)			
22 13 16 00-0689	EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	55.48 8.99		20.02
22 13 16 00-0690	EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	79.53 11.50		25.52
22 13 16 00-0691	EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	114.90 15.46		34.27
22 13 16 00-0692	EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	208.85 17.98		39.90
22 13 16 00-0693	EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	486.67 23.37		51.89
22 13 16 00-0694	EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	1,101.63 31.46		69.86
22 13 16 00-0695	EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug For Work In Restricted Working Space, Add	2,035.93 41.92		93.11
22 13 16 00-0696	Polyvinyl Chloride (PVC) Couplings (22 13 16 00-0539)			
22 13 16 00-0697	EA 1-1/2" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	37.52 8.99		20.02
22 13 16 00-0698	EA 2" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	46.85 11.50		25.52
22 13 16 00-0699	EA 3" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	73.26 15.46		34.27
22 13 16 00-0700	EA 4" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	95.65 17.98		39.90
22 13 16 00-0701	EA 6" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	275.05 23.37		51.89
22 13 16 00-0702	EA 8" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	674.41 31.46		69.86
22 13 16 00-0703	EA 10" Polyvinyl Chloride (PVC) Couplings For Work In Restricted Working Space, Add	1,022.41 41.94		93.11
22 13 16 00-0704	Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0539)			
22 13 16 00-0705	EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	22.64 4.49		9.95
22 13 16 00-0706	EA 2" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	38.01 5.75		12.83
22 13 16 00-0707	EA 3" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	77.97 7.73		17.14
22 13 16 00-0708	EA 4" Polyvinyl Chloride (PVC) Male Adapters For Work In Restricted Working Space, Add	149.62 8.99		20.02
22 13 16 00-0709	Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0504) Note: In place piping.			
22 13 16 00-0710	EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	8.78		
22 13 16 00-0711	EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	9.66		
22 13 16 00-0712	EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	12.29		
22 13 16 00-0713	EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	16.59		
22 13 16 00-0714	EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	23.71		
22 13 16 00-0715	EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	31.62		
22 13 16 00-0716	EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	38.65		
22 13 16 00-0717	Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16) Note: Aboveground installation.			
22 13 16 00-0718	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies (22 13 16 00-0717) Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.			

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0719	LF		1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	29.30 6.89	5.03
22 13 16 00-0720	LF		2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	32.56 7.64	5.99
22 13 16 00-0721	LF		3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	44.50 9.48	8.62
22 13 16 00-0722	LF		4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	51.27 10.53	9.35
22 13 16 00-0723	LF		6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	85.66 14.01	11.99
22 13 16 00-0724 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) (22 13 16 00-0717)					
Note: Excludes fittings or hangers.					
22 13 16 00-0725	LF		1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	10.17 2.25	5.03
22 13 16 00-0726	LF		2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.58 2.69	5.99
22 13 16 00-0727	LF		3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	20.33 3.87	8.62
22 13 16 00-0728	LF		4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	24.61 4.19	9.35
22 13 16 00-0729	LF		6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	38.48 5.04	11.23
22 13 16 00-0730 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) (22 13 16 00-0717)					
22 13 16 00-0731 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends (22 13 16 00-0730)					
22 13 16 00-0732	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	41.35 8.99	20.02
22 13 16 00-0733	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	54.59 11.50	25.52
22 13 16 00-0734	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	101.66 15.46	34.27
22 13 16 00-0735	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	158.16 17.98	39.90
22 13 16 00-0736	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	444.54 23.37	51.89
22 13 16 00-0737 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends (22 13 16 00-0730)					
22 13 16 00-0738	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	57.10 8.99	20.02
22 13 16 00-0739	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	69.98 11.50	25.52
22 13 16 00-0740	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	139.88 15.46	34.27
22 13 16 00-0741	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	234.20 17.98	39.90
22 13 16 00-0742 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends (22 13 16 00-0730)					
22 13 16 00-0743	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	43.48 8.99	20.02
22 13 16 00-0744	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	53.09 11.50	25.52
22 13 16 00-0745	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	93.82 15.46	34.27
22 13 16 00-0746	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	143.69 17.98	39.90
22 13 16 00-0747	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	459.81 23.37	51.89
22 13 16 00-0748 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees (22 13 16 00-0730)					
22 13 16 00-0749	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	64.34 13.48	29.96
22 13 16 00-0750	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	86.67 17.26	38.34



Plumbing			22	22
Plumbing Piping			22 10	
Facility Sanitary Sewerage			22 13	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 13 16 00-0751	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	151.59	23.19	51.52
22 13 16 00-0752	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	232.62	26.96	59.92
22 13 16 00-0753	EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	890.56	35.05	77.77
22 13 16 00-0754	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees (22 13 16 00-0730)			
22 13 16 00-0755	EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	80.06	14.74	32.71
22 13 16 00-0756	EA 2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	96.76	16.00	35.47
22 13 16 00-0757	EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	81.27	16.00	35.47
22 13 16 00-0758	EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	123.25	19.95	44.33
22 13 16 00-0759	EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	127.97	21.21	47.09
22 13 16 00-0760	EA 4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	280.63	22.47	49.85
22 13 16 00-0761	EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	271.14	23.73	52.73
22 13 16 00-0762	EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	310.88	25.70	57.04
22 13 16 00-0763	EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	972.92	32.35	71.78
22 13 16 00-0764	Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0730)			
22 13 16 00-0765	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	118.84	17.98	39.90
22 13 16 00-0766	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	162.66	23.01	51.05
22 13 16 00-0767	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	344.56	30.92	68.66
22 13 16 00-0768	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	506.88	35.95	79.81
22 13 16 00-0769	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0730)			
22 13 16 00-0770	EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	135.14	20.49	45.53
22 13 16 00-0771	EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	204.57	24.45	54.28
22 13 16 00-0772	EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	235.51	26.96	59.92
22 13 16 00-0773	EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	412.77	27.61	61.28
22 13 16 00-0774	EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	433.98	31.31	69.48
22 13 16 00-0775	Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0730)			
22 13 16 00-0776	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	83.99	13.48	29.96
22 13 16 00-0777	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	97.62	17.26	38.34
22 13 16 00-0778	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	166.04	23.19	51.52
22 13 16 00-0779	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	255.21	26.96	59.92
22 13 16 00-0780	EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	723.50	35.05	77.77
22 13 16 00-0781	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0730)			
22 13 16 00-0782	EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	118.81	14.74	32.71
22 13 16 00-0783	EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	122.29	16.00	35.47
22 13 16 00-0784	EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	139.67	21.21	47.09
22 13 16 00-0785	EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	211.93	23.73	52.73
22 13 16 00-0786	EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	240.88	25.70	57.04
22 13 16 00-0787	EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	609.07	32.35	71.78

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
22 13 16 00-0788	Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes (22 13 16 00-0730)				
22 13 16 00-0789	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	142.98		39.90	
	For Work In Restricted Working Space, Add	17.98			
22 13 16 00-0790	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	183.52		51.05	
	For Work In Restricted Working Space, Add	23.01			
22 13 16 00-0791	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	379.25		68.66	
	For Work In Restricted Working Space, Add	30.92			
22 13 16 00-0792	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes.....	679.32		79.81	
	For Work In Restricted Working Space, Add	35.95			
22 13 16 00-0793	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0730)				
22 13 16 00-0794	EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	165.88		45.53	
	For Work In Restricted Working Space, Add	20.49			
22 13 16 00-0795	EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	276.31		54.28	
	For Work In Restricted Working Space, Add	24.45			
22 13 16 00-0796	EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	294.93		59.92	
	For Work In Restricted Working Space, Add	26.96			
22 13 16 00-0797	EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	433.71		65.43	
	For Work In Restricted Working Space, Add	29.48			
22 13 16 00-0798	EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes	554.53		74.17	
	For Work In Restricted Working Space, Add	33.43			
22 13 16 00-0799	Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0730)				
22 13 16 00-0800	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	107.32		29.96	
	For Work In Restricted Working Space, Add	13.48			
22 13 16 00-0801	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	138.59		38.34	
	For Work In Restricted Working Space, Add	17.26			
22 13 16 00-0802	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	210.87		51.52	
	For Work In Restricted Working Space, Add	23.19			
22 13 16 00-0803	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	346.40		56.12	
	For Work In Restricted Working Space, Add	25.25			
22 13 16 00-0804	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0730)				
22 13 16 00-0805	EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	118.97		35.47	
	For Work In Restricted Working Space, Add	16.00			
22 13 16 00-0806	EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	221.97		44.33	
	For Work In Restricted Working Space, Add	19.95			
22 13 16 00-0807	EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	167.85		47.09	
	For Work In Restricted Working Space, Add	21.21			
22 13 16 00-0808	EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	295.48		52.73	
	For Work In Restricted Working Space, Add	23.73			
22 13 16 00-0809	EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends	320.00		57.04	
	For Work In Restricted Working Space, Add	25.70			
22 13 16 00-0810	Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0730)				
22 13 16 00-0811	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	223.45		51.05	
	For Work In Restricted Working Space, Add	23.01			
22 13 16 00-0812	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	441.56		68.66	
	For Work In Restricted Working Space, Add	30.92			
22 13 16 00-0813	Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0730)				
22 13 16 00-0814	EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	186.42		45.53	
	For Work In Restricted Working Space, Add	20.49			
22 13 16 00-0815	EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends.....	422.61		59.92	
	For Work In Restricted Working Space, Add	26.96			
22 13 16 00-0816	Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0730)				
22 13 16 00-0817	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	118.31		29.96	
	For Work In Restricted Working Space, Add	13.48			
22 13 16 00-0818	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	149.58		38.34	
	For Work In Restricted Working Space, Add	17.26			
22 13 16 00-0819	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	235.43		51.52	
	For Work In Restricted Working Space, Add	23.19			
22 13 16 00-0820	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug	385.47		59.92	
	For Work In Restricted Working Space, Add	26.96			
22 13 16 00-0821	Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug (22 13 16 00-0730)				



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0822 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	55.11	20.02
For Work In Restricted Working Space, Add	8.99	
22 13 16 00-0823 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	78.93	25.52
For Work In Restricted Working Space, Add	11.50	
22 13 16 00-0824 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	113.90	34.27
For Work In Restricted Working Space, Add	15.46	
22 13 16 00-0825 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	206.78	39.90
For Work In Restricted Working Space, Add	17.98	
22 13 16 00-0826 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug.....	481.07	51.89
For Work In Restricted Working Space, Add	23.37	
22 13 16 00-0827 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings (22 13 16 00-0730)		
22 13 16 00-0828 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	38.63	20.02
For Work In Restricted Working Space, Add	8.99	
22 13 16 00-0829 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	47.48	25.52
For Work In Restricted Working Space, Add	11.50	
22 13 16 00-0830 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	76.39	34.27
For Work In Restricted Working Space, Add	15.46	
22 13 16 00-0831 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	100.92	39.90
For Work In Restricted Working Space, Add	17.98	
22 13 16 00-0832 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings.....	280.52	51.89
For Work In Restricted Working Space, Add	23.37	
22 13 16 00-0833 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers (22 13 16 00-0730)		
22 13 16 00-0834 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	56.13	22.77
For Work In Restricted Working Space, Add	10.25	
22 13 16 00-0835 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	110.42	27.08
For Work In Restricted Working Space, Add	12.22	
22 13 16 00-0836 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	103.37	29.96
For Work In Restricted Working Space, Add	13.48	
22 13 16 00-0837 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	164.37	32.71
For Work In Restricted Working Space, Add	14.74	
22 13 16 00-0838 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers	176.29	37.14
For Work In Restricted Working Space, Add	16.72	
22 13 16 00-0839 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0730)		
22 13 16 00-0840 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	87.55	29.96
For Work In Restricted Working Space, Add	13.48	
22 13 16 00-0841 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	126.49	38.34
For Work In Restricted Working Space, Add	17.26	
22 13 16 00-0842 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	393.19	51.52
For Work In Restricted Working Space, Add	23.19	
22 13 16 00-0843 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps.....	737.05	59.92
For Work In Restricted Working Space, Add	26.96	
22 13 16 00-0844 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0730)		
22 13 16 00-0845 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	119.41	39.90
For Work In Restricted Working Space, Add	17.98	
22 13 16 00-0846 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges.....	111.52	37.14
For Work In Restricted Working Space, Add	16.72	
22 13 16 00-0847 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0730)		
22 13 16 00-0848 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters	26.04	9.95
For Work In Restricted Working Space, Add	4.49	
22 13 16 00-0849 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	38.79	12.83
For Work In Restricted Working Space, Add	5.75	
22 13 16 00-0850 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	82.88	17.14
For Work In Restricted Working Space, Add	7.73	
22 13 16 00-0851 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters.....	156.33	20.02
For Work In Restricted Working Space, Add	8.99	
22 13 16 00-0852 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0730)		
22 13 16 00-0853 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	43.29	22.77
For Work In Restricted Working Space, Add	10.25	
22 13 16 00-0854 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	90.05	27.08
For Work In Restricted Working Space, Add	12.22	
22 13 16 00-0855 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	76.27	29.96
For Work In Restricted Working Space, Add	13.48	
22 13 16 00-0856 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	162.79	32.71
For Work In Restricted Working Space, Add	14.74	
22 13 16 00-0857 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	121.58	37.14
For Work In Restricted Working Space, Add	16.72	
22 13 16 00-0858 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing.....	322.80	42.98
For Work In Restricted Working Space, Add	19.36	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 16 00-0859		Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0730)	
22 13 16 00-0860	EA	1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	155.05
		<i>For Work In Restricted Working Space, Add</i>	8.99
22 13 16 00-0861	EA	2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	171.77
		<i>For Work In Restricted Working Space, Add</i>	11.50
22 13 16 00-0862	EA	3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	193.29
		<i>For Work In Restricted Working Space, Add</i>	15.46
22 13 16 00-0863	EA	4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling	210.03
		<i>For Work In Restricted Working Space, Add</i>	17.98
22 13 16 00-0864		Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0717)	
		Note: In place piping.	
22 13 16 00-0865	EA	1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	8.78
22 13 16 00-0866	EA	2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	9.66
22 13 16 00-0867	EA	3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	12.29
22 13 16 00-0868	EA	4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	16.59
22 13 16 00-0869	EA	6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	23.71
22 13 16 00-0870		Elastomeric Flexible Pipe Couplings (22 13 16)	
22 13 16 00-0871		Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings (22 13 16 00-0870)	
		Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.	
22 13 16 00-0872	EA	1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125)	15.44
		<i>For Work In Restricted Working Space, Add</i>	3.12
22 13 16 00-0873	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	16.63
		<i>For Work In Restricted Working Space, Add</i>	3.32
22 13 16 00-0874	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	17.49
		<i>For Work In Restricted Working Space, Add</i>	3.51
22 13 16 00-0875	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	20.17
		<i>For Work In Restricted Working Space, Add</i>	3.71
22 13 16 00-0876	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	22.79
		<i>For Work In Restricted Working Space, Add</i>	3.90
22 13 16 00-0877	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	28.99
		<i>For Work In Restricted Working Space, Add</i>	4.10
22 13 16 00-0878	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	35.23
		<i>For Work In Restricted Working Space, Add</i>	4.29
22 13 16 00-0879	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	47.78
		<i>For Work In Restricted Working Space, Add</i>	4.68
22 13 16 00-0880	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	62.95
		<i>For Work In Restricted Working Space, Add</i>	5.47
22 13 16 00-0881		Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings (22 13 16 00-0870)	
		Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.	
22 13 16 00-0882	EA	1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125)	16.43
		<i>For Work In Restricted Working Space, Add</i>	3.32
22 13 16 00-0883	EA	2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215)	17.82
		<i>For Work In Restricted Working Space, Add</i>	3.51
22 13 16 00-0884	EA	3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315)	21.79
		<i>For Work In Restricted Working Space, Add</i>	3.71
22 13 16 00-0885	EA	3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32)	19.58
		<i>For Work In Restricted Working Space, Add</i>	3.71
22 13 16 00-0886	EA	4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415)	26.76
		<i>For Work In Restricted Working Space, Add</i>	3.90
22 13 16 00-0887	EA	4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42)	25.63
		<i>For Work In Restricted Working Space, Add</i>	3.90
22 13 16 00-0888	EA	4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43)	23.54
		<i>For Work In Restricted Working Space, Add</i>	3.90
22 13 16 00-0889	EA	5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53)	33.90
		<i>For Work In Restricted Working Space, Add</i>	4.10
22 13 16 00-0890	EA	5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54)	30.70
		<i>For Work In Restricted Working Space, Add</i>	4.10
22 13 16 00-0891	EA	6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63)	41.83
		<i>For Work In Restricted Working Space, Add</i>	4.29
22 13 16 00-0892	EA	6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64)	37.05
		<i>For Work In Restricted Working Space, Add</i>	4.29
22 13 16 00-0893	EA	6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65)	38.38
		<i>For Work In Restricted Working Space, Add</i>	4.29
22 13 16 00-0894	EA	8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84)	75.27
		<i>For Work In Restricted Working Space, Add</i>	7.81
22 13 16 00-0895	EA	8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86)	62.00
		<i>For Work In Restricted Working Space, Add</i>	7.81
22 13 16 00-0896	EA	10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8)	78.27
		<i>For Work In Restricted Working Space, Add</i>	8.78



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0897			Elastomeric Flexible Pipe Caps (Fernco QC) (22 13 16) Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0898	EA		1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	57.38	35.13
22 13 16 00-0899	EA		2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	61.54	37.34
22 13 16 00-0900	EA		3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	71.27	42.81
22 13 16 00-0901	EA		4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	94.04	56.60
22 13 16 00-0902	EA		5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	112.71	67.66
22 13 16 00-0903	EA		6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	129.96	78.07
22 13 16 00-0904	EA		8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	174.30	98.88
22 13 16 00-0905	EA		10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	214.24	110.60
22 13 16 00-0906	EA		12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	271.05	122.96
22 13 16 00-0907			Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)		
22 13 16 00-0908	EA		1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	106.13	26.96
22 13 16 00-0909	EA		2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	112.12	29.96
22 13 16 00-0910	EA		3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	167.37	38.94
22 13 16 00-0911	EA		4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	196.14	44.94
22 13 16 00-0912	EA		5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	228.62	50.93
22 13 16 00-0913	EA		6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	382.27	56.92
22 13 16 00-0914			Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)		
22 13 16 00-0915	EA		1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	216.84	26.96
22 13 16 00-0916	EA		2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	222.83	29.96
22 13 16 00-0917	EA		3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	265.16	38.94
22 13 16 00-0918	EA		4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	331.44	44.94
22 13 16 00-0919	EA		5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	452.04	50.93
22 13 16 00-0920	EA		6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	464.02	56.92
22 13 16 00-0921			Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16) Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0922	EA		1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	411.57	26.96
22 13 16 00-0923	EA		2" Cast Iron Vandal Proof Hooded Vent Cap.....	417.56	29.96
22 13 16 00-0924	EA		3" Cast Iron Vandal Proof Hooded Vent Cap.....	480.24	38.94
22 13 16 00-0925	EA		4" Cast Iron Vandal Proof Hooded Vent Cap.....	540.65	44.94
22 13 16 00-0926	EA		5" Cast Iron Vandal Proof Hooded Vent Cap.....	630.88	50.93
22 13 16 00-0927	EA		6" Cast Iron Vandal Proof Hooded Vent Cap.....	689.43	56.92
22 13 19			Sanitary Waste Piping Specialties (22 13)		
22 13 19 13			Sanitary Drains (22 13 19)		
22 13 19 13-0001			Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002	EA		Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet	858.38	128.82
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0003	EA		Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	943.25	144.40
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0004	EA		Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	920.34	159.73
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0005	EA		Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	953.23	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0006	EA		Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet	861.85	144.40
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	48.00	
			For Cast Iron Dome Grate, Add	17.00	
			For Nikaloy Dome Grate, Add	178.50	
			For Bronze Dome Grate, Add	143.00	
			For Cast Iron Extension Collar, Each 3", Add	57.50	
			For Galvanized Extension Collar, Each 3", Add	117.50	
			For Galvanized Cast Iron Parts, Add	87.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	892.65	159.73
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0008 EA Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	925.54	176.27
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0009 EA Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet.....	1,432.18	144.40
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0010 EA Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet.....	1,462.98	159.73
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0011 EA Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet.....	1,495.87	176.27
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,349.12	144.40
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,379.75	159.73
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,412.81	176.27
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3", Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
For Galvanized Cast Iron Parts, Add	87.50	
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,481.88	144.28
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
For Primer Tap, Add	33.50	
For Chained Grate, Add	48.50	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0016	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,512.65	159.73
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0017	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,545.71	176.27
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0018	EA		Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,334.61	144.28
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0019	EA		Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,365.38	159.73
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0020	EA		Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,398.44	176.27
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0021	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,221.09	144.28
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0022	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,251.86	159.73
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0023	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,284.92	176.27
			For Vandal Proof Screws, Add	30.50	
			For Ductile Iron Grate, Add	53.00	
			For Cast Iron Dome Grate, Add	28.00	
			For Nikaloy Dome Grate, Add	255.00	
			For Cast Iron Extension Collar, Each 2", Add	51.00	
			For Galvanized Extension Collar, Each 2", Add	102.50	
			For Galvanized Cast Iron Parts, Add	132.00	
			For Primer Tap, Add	33.50	
			For Chained Grate, Add	48.50	
22 13 19 13-0024	Square Or Rectangular Top Drains (22 13 19 13)				
22 13 19 13-0025	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,019.52	144.28
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,050.63	159.85
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,083.35	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,102.58	144.28
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,133.69	159.85
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,166.41	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,468.03	144.28
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,499.14	159.85
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,531.86	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	958.61	144.28
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	989.72	159.85
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,022.44	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,063.82	144.28
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,094.93	159.85
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,127.65	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,360.06	144.28
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,391.17	159.85
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,423.89	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top	3,528.53	159.85
			For Galvanized Cast Iron Parts, Add	318.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top	3,561.25	176.27
			For Galvanized Cast Iron Parts, Add	318.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top	4,431.09	159.85
			For Galvanized Cast Iron Parts, Add	318.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top	4,463.81	176.27
			For Galvanized Cast Iron Parts, Add	318.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19	13-0047	EA	12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top	4,323.12	159.85
			For Galvanized Cast Iron Parts, Add	318.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19	13-0048	EA	12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top	4,355.84	176.27
			For Galvanized Cast Iron Parts, Add	318.00	
			For Chained Grate, Add	48.50	
			For No-Hub Side Outlet, Add	76.00	
22 13 19	13-0049	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,490.18	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0050	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,521.29	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0051	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,554.01	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0052	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,919.32	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0053	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,950.43	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0054	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,983.15	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0055	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top	2,018.99	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0056	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top	2,050.10	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0057	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top	2,082.82	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0058	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,791.42	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0059	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,822.53	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0060	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,855.25	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0061	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top	1,401.59	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0062	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,432.70	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0063	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,465.42	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0064	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top	1,767.04	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0065	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top	1,798.15	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0066	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,830.87	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19	13-0067	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,866.71	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0068	EA		5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top	1,897.82	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0069	EA		5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top	1,930.54	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0070	EA		5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top	2,495.18	144.28
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0071	EA		5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top	2,526.29	159.85
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0072	EA		5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top	2,559.01	176.27
			For Vandal Proof Screws, Add	11.00	
			For Rough Bronze Body, Add	120.94	
			For Sediment Bucket, Add	22.50	
22 13 19 13-0073 Funnel Type Floor Drains (22 13 19 13)					
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top	1,406.67	128.82
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top	1,437.58	144.28
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top	1,468.35	159.73
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top	1,501.41	176.27
			For Vandal Proof Screws, Add	11.00	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top	2,060.51	144.28
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top	2,091.28	159.73
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top	2,124.34	176.27
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top	1,952.54	144.28
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top	1,983.31	159.73
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top	2,016.37	176.27
			For Vandal Proof Screws, Add	11.00	
			For Primer Tap, Add	15.10	
			For Galvanized Cast Iron Parts, Add	105.00	
			For Satin Finish Bronze Top, Deduct	-19.50	
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet (22 13 19 13)					
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap	2,990.20	128.82
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap	3,021.22	144.28
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap	3,051.99	159.73
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,085.05	176.27
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,119.17	193.29
			For Vandal Proof Screws, Add	30.50	
			For Galvanized Cast Iron Parts, Add	247.00	
			For Primer Tap, Add	33.50	
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,231.63	144.28
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,262.74	159.85
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,295.46	176.27
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy-Duty Loose-Set Cast Iron Grate	3,329.58	193.29
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	1,982.99	144.28
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	2,014.10	159.85
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	2,046.82	176.27
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy-Duty Loose-Set Cast Iron Grate	2,080.94	193.29
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,015.68	144.28
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,046.79	159.85
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,079.51	176.27
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy-Duty Loose-Set Cast Iron Grate	3,113.63	193.29
			For Vandal Proof Screws, Add	29.50	
			For Primer Tap, Add	31.00	
			For Aluminum Bucket, Add	77.50	
			For Galvanized Cast Iron Parts, Add	273.75	

- 22 13 19 13-0102 Other Drains (22 13 19 13)
- 22 13 19 13-0103 Shower Drains (22 13 19 13-0102)

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0104	EA	4-1/4" Stainless Steel Shower Drain Strainer.....	54.57	13.01	
		Note: Includes two 2-5/8" screws.			
22 13 19 13-0105	EA	4-1/4" Brass Shower Drain Strainer.....	60.70	13.01	
		Note: Includes two 2-5/8" screws.			
22 13 19 13-0106	EA	4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	125.77	26.03	
		Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.			
22 13 19 13-0107	EA	4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	160.98	26.03	
		Note: For 2" pipe. Kohler K-9132.			
22 13 19 13-0108 Acid Resistant Floor Drains (22 13 19 13-0102)					
22 13 19 13-0109	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,417.63	128.82	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	87.50		
		For Primer Tap, Add	33.50		
22 13 19 13-0110	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,448.65	144.28	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	87.50		
		For Primer Tap, Add	33.50		
22 13 19 13-0111	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,479.42	159.73	
		For Vandal Proof Screws, Add	30.50		
		For Galvanized Cast Iron Parts, Add	87.50		
		For Primer Tap, Add	33.50		
22 13 19 13-0112 Rotary And Lever Drains (22 13 19 13-0102)					
22 13 19 13-0113	EA	1-1/2" Drain, 3" Sink Opening Lever Drain.....	289.05	86.88	
22 13 19 13-0114	EA	2" Drain, 3" Sink Opening Lever Drain.....	307.01	95.87	
22 13 19 13-0115	EA	1-1/2" Drain, 3-1/2" Sink Opening Lever Drain.....	289.05	86.88	
22 13 19 13-0116	EA	2" Drain, 3-1/2" Sink Opening Lever Drain.....	307.01	95.87	
22 13 19 13-0117	EA	1-1/2" Drain, 3" Sink Opening Twist Drain.....	289.05	86.88	
22 13 19 13-0118	EA	2" Drain, 3" Sink Opening Twist Drain.....	307.01	95.87	
22 13 19 13-0119	EA	1-1/2" Drain, 3-1/2" Sink Opening Twist Drain.....	289.05	86.88	
22 13 19 13-0120	EA	2" Drain, 3-1/2" Sink Opening Twist Drain.....	307.01	95.87	
22 13 19 13-0121	EA	1-1/2" To 2" Drain, 3-1/2" Sink Opening Rotary Twist Drain (Fisher 16100).....	395.96	95.87	
22 13 19 13-0122 Floor Receptor (22 13 19 13)					
22 13 19 13-0123 9" Diameter Round Shallow Receptor (22 13 19 13-0122)					
		Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.			
22 13 19 13-0124	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection.....	1,739.55	144.40	
		For Flange With Seepage Holes, Add	58.50		
		For Flange With Seepage Holes And Clamp Collar, Add	97.00		
		For Trap Primer Connection, Add	38.00		
		For Full Grate With 2" Square Center Opening, Add	36.00		
		For Vandal Proof Secured Grate, Add	33.50		
		For White Acid Resistant Bucket, Add	47.00		
		For Stainless Steel Liner For Bucket, Add	62.50		
22 13 19 13-0125	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection.....	1,770.81	159.97	
		For Flange With Seepage Holes, Add	58.50		
		For Flange With Seepage Holes And Clamp Collar, Add	97.00		
		For Trap Primer Connection, Add	38.00		
		For Full Grate With 2" Square Center Opening, Add	36.00		
		For Vandal Proof Secured Grate, Add	33.50		
		For White Acid Resistant Bucket, Add	47.00		
		For Stainless Steel Liner For Bucket, Add	62.50		
22 13 19 13-0126	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection.....	1,803.19	176.27	
		For Flange With Seepage Holes, Add	58.50		
		For Flange With Seepage Holes And Clamp Collar, Add	97.00		
		For Trap Primer Connection, Add	38.00		
		For Full Grate With 2" Square Center Opening, Add	36.00		
		For Vandal Proof Secured Grate, Add	33.50		
		For White Acid Resistant Bucket, Add	47.00		
		For Stainless Steel Liner For Bucket, Add	62.50		
22 13 19 13-0127 Square Top Floor Receptors (22 13 19 13-0122)					
		Note: With acid resistant coating.			
22 13 19 13-0128	EA	8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top.....	2,051.75	128.82	
		For Flange With Seepage Holes, Add	37.50		
		For Flange With Seepage Holes And Clamp Collar, Add	69.00		
		For Trap Primer Connection, Add	39.50		
		For Full Grate With 2" Square Center Opening, Add	36.00		
		For Vandal Proof Secured Grate, Add	15.50		
		For White Acid Resistant Bucket, Add	88.00		
		For Stainless Steel Liner For Bucket, Add	97.00		



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
22 13 19 13-0129	EA	8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top	2,082.80	144.40
		For Flange With Seepage Holes, Add	37.50	
		For Flange With Seepage Holes And Clamp Collar, Add	69.00	
		For Trap Primer Connection, Add	39.50	
		For Full Grate With 2" Square Center Opening, Add	36.00	
		For Vandal Proof Secured Grate, Add	15.50	
		For White Acid Resistant Bucket, Add	88.00	
		For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0130	EA	8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top	2,113.43	159.73
		For Flange With Seepage Holes, Add	37.50	
		For Flange With Seepage Holes And Clamp Collar, Add	69.00	
		For Trap Primer Connection, Add	39.50	
		For Full Grate With 2" Square Center Opening, Add	36.00	
		For Vandal Proof Secured Grate, Add	15.50	
		For White Acid Resistant Bucket, Add	88.00	
		For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0131	EA	8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top	2,146.49	176.27
		For Flange With Seepage Holes, Add	37.50	
		For Flange With Seepage Holes And Clamp Collar, Add	69.00	
		For Trap Primer Connection, Add	39.50	
		For Full Grate With 2" Square Center Opening, Add	36.00	
		For Vandal Proof Secured Grate, Add	15.50	
		For White Acid Resistant Bucket, Add	88.00	
		For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0132		Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133	EA	3" Trap Guard Floor Drain Insert (ProVent TG3H).....	116.94	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 13-0134	EA	2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	95.19	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 13-0135	EA	3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	103.89	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 13-0136	EA	3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	125.63	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 13-0137	EA	3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	112.59	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 13-0138	EA	2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	160.66	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 13-0139	EA	3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)	178.16	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 13-0140	EA	4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)	221.58	14.98
		Note: Prevents emission of sewer gases.		
22 13 19 26		Grease Removal Devices (22 13 19)		
22 13 19 26-0001		Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
		Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002		Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-		
		0001)		
		Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003	EA	7 GPM, 14 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	1,359.79	89.88
		Note: Josam 60102H.		
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,338.15	
22 13 19 26-0004	EA	10 GPM, 20 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	1,585.83	202.22
		Note: Josam 60103H.		
		For Flange And Clamp Device, Add	394.97	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,415.66	
22 13 19 26-0005	EA	15 GPM, 30 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,248.36	224.69
		Note: Josam 60104H.		
		For Flange And Clamp Device, Add	409.95	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,546.61	
22 13 19 26-0006	EA	20 GPM, 40 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	2,714.80	247.15
		Note: Josam 60105H.		
		For Flange And Clamp Device, Add	424.93	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,672.12	
22 13 19 26-0007	EA	25 GPM, 50 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,039.25	269.62
		Note: Josam 60106H.		
		For Flange And Clamp Device, Add	470.31	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,742.90	
22 13 19 26-0008	EA	35 GPM, 70 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,731.73	314.55
		Note: Josam 60107H.		
		For Flange And Clamp Device, Add	511.47	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	1,920.32	
22 13 19 26-0009	EA	50 GPM, 100 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	4,865.95	359.49
		Note: Josam 60108H.		
		For Flange And Clamp Device, Add	582.38	
		For Steel Enclosure Cabinet With Non-Skid Cover, Add	2,050.69	
22 13 19 26-0010	EA	75 GPM, 150 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	9,554.41	404.43
		Note: Josam 60109H.		
		For Flange And Clamp Device, Add	813.62	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0011 EA 100 GPM, 200 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60110H. <i>For Flange And Clamp Device, Add</i>	10,809.40 941.67	500.50
22 13 19 26-0012 EA 150 GPM, 300 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60213A. <i>For Flange And Clamp Device, Add</i>	13,342.64 1,301.87	800.81
22 13 19 26-0013 EA 200 GPM, 400 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60214A. <i>For Flange And Clamp Device, Add</i>	19,141.89 1,564.62	1,001.01
22 13 19 26-0014 EA 250 GPM, 500 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60215A. <i>For Flange And Clamp Device, Add</i>	22,330.50 2,011.05	1,201.22
22 13 19 26-0015 EA 350 GPM, 700 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60216A. <i>For Flange And Clamp Device, Add</i>	29,010.22 2,382.28	1,401.41
22 13 19 26-0016 EA 500 GPM, 1,000 Lb. Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60217A. <i>For Flange And Clamp Device, Add</i>	37,525.28 2,789.03	1,601.62
22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,904.81	247.15
Note: Josam 60115A.		
22 13 19 26-0019 EA 35 GPM, 70 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor	5,023.16	314.55
Note: Josam 60117A.		
22 13 19 26-0020 EA 50 GPM, 100 Lb. Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor	8,279.69	359.49
Note: Smith 8150.		
22 13 19 26-0021 Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022 Standard Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor	3,430.28	89.88
Note: Josam 60102-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,338.15	
22 13 19 26-0024 EA 10 GPM, 20 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor	4,033.45	202.22
Note: Josam 60103-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,415.66	
22 13 19 26-0025 EA 15 GPM, 30 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor	4,309.83	224.69
Note: Josam 60104-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,546.61	
22 13 19 26-0026 EA 20 GPM, 40 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor	5,258.58	247.15
Note: Josam 60105-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,672.12	
22 13 19 26-0027 EA 25 GPM, 50 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor	6,338.05	269.62
Note: Josam 60106-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,742.90	
22 13 19 26-0028 EA 35 GPM, 70 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor	6,554.98	314.55
Note: Josam 60107-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,920.32	
22 13 19 26-0029 EA 50 GPM, 100 Lb. Capacity Semi-Automatic Epoxy Coated Steel Grease Interceptor	7,482.60	359.49
Note: Josam 60108-SA. <i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,050.69	
22 13 19 26-0030 Low Profile Semi-Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 Lb. Capacity Low Profile Semi-Automatic Epoxy Coated Steel Grease Interceptor.....	8,802.77	314.55
Note: Josam 60115A-SA.		
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor (22 13 19 26) Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).		
22 13 19 26-0033 EA 20 GPM, 69 Lb. Capacity Automatic Cleaning Stainless Steel Grease Interceptor	7,508.06	247.15
Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).		
22 13 19 26-0034 EA 25 GPM, 91 Lb. Capacity Automatic Cleaning Stainless Steel Grease Interceptor	8,730.22	269.62
Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).		
22 13 19 26-0035 EA 35 GPM, 70 Lb. Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	7,485.23	314.55
22 13 19 26-0036 Precast Concrete Grease Interceptor (22 13 19 26) Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor.....	5,666.07	449.55
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor.....	6,477.39	449.55
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor.....	7,352.02	513.95
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor.....	8,378.04	725.82



Plumbing			22	22
Plumbing Piping			22 10	
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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0041	EA	2,500 Gallon Pre-Cast Grease Interceptor	9,446.26	976.54	
22 13 19 26-0042	EA	4,000 Gallon Pre-Cast Grease Interceptor	14,153.52	1,284.80	
22 13 19 26-0043	EA	5,000 Gallon Pre-Cast Grease Interceptor	18,208.56	2,106.87	
22 13 19 26-0044 Coated Steel Manual Oil Interceptor (22 13 19 26)					
Note: Includes internal air relief, and flow control fitting.					
22 13 19 26-0045	EA	10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	6,283.13	342.21	
22 13 19 26-0046	EA	15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	8,494.75	406.61	
22 13 19 26-0047	EA	20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	10,282.72	500.29	
22 13 19 26-0048	EA	25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	11,167.22	541.93	
22 13 19 26-0049	EA	35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	13,440.00	591.37	
22 13 19 26-0050	EA	50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	17,789.19	650.57	
22 13 19 26-0051	EA	75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	30,053.91	748.95	
22 13 19 26-0052	EA	100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	32,801.63	921.50	
22 13 19 26-0053	EA	150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	40,347.00	998.79	
22 13 19 26-0054	EA	200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	56,578.94	1,198.31	
22 13 19 26-0055	EA	250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	65,320.66	1,288.19	
22 13 19 26-0056	EA	350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	82,351.93	1,536.24	
22 13 19 26-0057	EA	400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	99,771.97	1,258.83	
22 13 19 26-0058	EA	500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	118,187.16	1,497.89	
22 13 19 33 Backwater Valves (22 13 19)					
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)					
22 13 19 33-0002	EA	2" Cast Iron Body Terminal Backwater Valve	772.63	34.40	
22 13 19 33-0003	EA	3" Cast Iron Body Terminal Backwater Valve	785.82	43.26	
22 13 19 33-0004	EA	4" Cast Iron Body Terminal Backwater Valve	1,137.44	57.52	
22 13 19 33-0005	EA	6" Cast Iron Body Terminal Backwater Valve	3,121.68	78.45	
22 13 19 33-0006	EA	8" Cast Iron Body Terminal Backwater Valve	3,810.95	103.26	
22 13 19 33-0007	EA	10" Cast Iron Body Terminal Backwater Valve	11,179.80	127.39	
22 13 19 33-0008	EA	12" Cast Iron Body Terminal Backwater Valve	12,646.18	165.22	
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)					
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.					
22 13 19 33-0010	EA	2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,892.50	81.97	
22 13 19 33-0011	EA	3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,909.95	99.46	
22 13 19 33-0012	EA	4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,593.83	128.22	
22 13 19 33-0013	EA	6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	5,078.22	142.54	
22 13 19 33-0014	EA	8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	7,072.99	168.92	
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)					
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.					
22 13 19 33-0016	EA	3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,275.56	129.78	
22 13 19 33-0017	EA	4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	5,339.79	172.56	
22 13 19 33-0018	EA	5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	7,798.74	211.12	
22 13 19 33-0019	EA	6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	7,835.45	235.36	
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)					
Note: Oatey.					
22 13 19 33-0021	EA	3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900)	149.88	43.26	
22 13 19 33-0022	EA	4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904)	180.04	57.52	
22 13 19 33-0023	EA	6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908)	517.46	78.45	
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)					
22 13 19 33-0025	EA	3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	352.04	86.52	
Note: Includes valve body, flapper assembly and collar.					
22 13 19 33-0026	EA	4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	468.76	115.03	
Note: Includes valve body, flapper assembly and collar.					
22 13 19 33-0027	EA	6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	802.47	156.91	
Note: Includes valve body, flapper assembly and collar.					
22 13 19 36 Air-Admittance Valves (22 13 19)					
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)					
22 13 19 36-0002	EA	1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent	172.83	16.77	
22 13 19 36-0003	EA	2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent	205.05	16.77	
22 13 23 Sanitary Waste Interceptors (22 13)					
22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0002	EA		1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1180).....	1,335.48	169.68
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003	EA		1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zum 1184).....	1,337.14	169.68
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004	EA		1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARIO).....	1,876.01	169.68
			Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005	EA		1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARIO).....	1,876.01	169.68
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006	EA		1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,998.00	169.68
			Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007			Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008	EA		1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	338.61	58.03
			For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0009	EA		2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	346.04	61.80
			For Stainless Steel Bucket, Add	175.00	
22 13 23 00-0010			Sediment Strainers (22 13 23)		
22 13 23 00-0011	EA		2" Strainer, Pump Suction Side.....	206.41	79.03
22 13 29			Sanitary Sewerage Pumps (22 13)		
			Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13			Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)		
22 13 29 13-0001			Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-Deeming Series 4500) (22 13 29 13) Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
22 13 29 13-0002			1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0003	EA		1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	8,034.78	1,437.49
22 13 29 13-0004	EA		3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	8,351.93	1,437.49
22 13 29 13-0005	EA		1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	8,669.08	1,437.49
22 13 29 13-0006	EA		1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	8,971.59	1,437.49
22 13 29 13-0007			2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0008	EA		3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	8,913.04	1,437.49
22 13 29 13-0009	EA		1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	9,035.02	1,437.49
22 13 29 13-0010	EA		2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	9,120.41	1,437.49
22 13 29 13-0011	EA		3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	9,705.91	1,437.49
22 13 29 13-0012	EA		5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	10,279.22	1,437.49
22 13 29 13-0013	EA		7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	11,157.47	1,437.49
22 13 29 13-0014	EA		10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	12,035.73	1,437.49
22 13 29 13-0015	EA		15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM.....	13,864.98	1,912.98
22 13 29 13-0016			3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)		
22 13 29 13-0017	EA		2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	9,524.24	1,437.49
22 13 29 13-0018	EA		3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	9,524.24	1,437.49
22 13 29 13-0019	EA		5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	9,735.57	1,437.49
22 13 29 13-0020	EA		7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	11,375.37	1,437.49
22 13 29 13-0021	EA		10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	11,663.02	1,437.49
22 13 29 13-0022	EA		15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	13,966.17	1,912.98
22 13 29 13-0023	EA		20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM.....	14,698.05	1,912.98
22 13 29 13-0024			Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025	EA		2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026	EA		3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027	EA		4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028	EA		5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029	EA		6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030			Float Switches (22 13 29 13-0001)		
			Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031	EA		Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	



Plumbing			22
Plumbing Piping			22 10
Facility Sanitary Sewerage			22 13

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
22 13 29 13-0032	EA	Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033	EA	Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)				
22 13 29 13-0035	EA	24" Steel Sump Covers, Square Or Round.....	857.55	47.93
22 13 29 13-0036	EA	30" Steel Sump Covers, Square Or Round.....	949.39	53.93
22 13 29 13-0037	EA	36" Steel Sump Covers, Square Or Round.....	1,317.33	71.90
22 13 29 13-0038	EA	40" Steel Sump Covers, Square Or Round.....	1,911.28	83.88
22 13 29 13-0039	EA	42" Steel Sump Covers, Square Or Round.....	2,048.95	86.88
22 13 29 13-0040	EA	48" Steel Sump Covers, Square Or Round.....	2,190.86	89.88
22 13 29 13-0041	EA	54" Steel Sump Covers, Square Or Round.....	2,790.71	107.84
22 13 29 13-0042	EA	60" Steel Sump Covers, Square Or Round.....	3,779.80	119.83
22 13 29 13-0043	EA	72" Steel Sump Covers, Square Or Round.....	4,793.26	149.79
22 13 29 13-0044	EA	84" Steel Sump Covers, Square Or Round.....	6,092.58	164.77
22 13 29 16 Submersible Sewerage Pumps (22 13 29)				
22 13 29 16-0001	Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)			
22 13 29 16-0002	Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)			
Note: Includes 25' cord.				
22 13 29 16-0003	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,601.91	87.18
22 13 29 16-0004	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,707.72	87.18
22 13 29 16-0005	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,675.16	87.18
22 13 29 16-0006	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,831.17	87.18
22 13 29 16-0007	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,831.17	87.18
22 13 29 16-0008	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,936.93	108.98
22 13 29 16-0009	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,075.30	108.98
22 13 29 16-0010	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,092.94	108.98
22 13 29 16-0011 Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)				
Note: Includes 20' cord.				
22 13 29 16-0012	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,631.75	87.18
22 13 29 16-0013	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,783.69	87.18
22 13 29 16-0014	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,711.79	87.18
22 13 29 16-0015	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,858.30	87.18
22 13 29 16-0016	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,989.89	87.18
22 13 29 16-0017	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,852.82	108.98
22 13 29 16-0018	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,010.19	108.98
22 13 29 16-0019	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,008.83	108.98
22 13 29 16-0020	EA	1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,301.68	175.65
22 13 29 16-0021	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,434.62	175.65
22 13 29 16-0022	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,457.68	175.65
22 13 29 16-0023	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,462.99	214.69
22 13 29 16-0024	EA	2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,614.93	214.69
22 13 29 16-0025	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,619.00	214.69
22 13 29 16-0026 Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)				
Note: Includes 20' cord.				
22 13 29 16-0027	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,935.63	87.18
22 13 29 16-0028	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,193.39	87.18
22 13 29 16-0029	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller.....	2,141.78	108.98



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0030	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	2,297.79	108.98
22 13 29 16-0031	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,612.34	175.65
22 13 29 16-0032	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,768.35	175.65
22 13 29 16-0033	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,775.01	214.69
22 13 29 16-0034	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,931.01	214.69
22 13 29 16-0035 Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16)				
Note: Includes 25' of cord with pump.				
22 13 29 16-0036	EA	1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,879.73	108.98
22 13 29 16-0037	EA	1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,198.19	175.55
22 13 29 16-0038	EA	2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,562.69	214.55
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,813.79	260.07
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,522.37	305.58
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	7,284.47	351.10
22 13 29 16-0042 Submersible Sewage Pumps, Explosion Proof (22 13 29 16)				
Note: Includes 25' of cord with pump.				
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,697.44	390.55
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,100.78	390.55
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,100.78	390.55
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,072.16	520.74
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,475.50	520.74
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,475.50	520.74
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,569.95	650.92
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,973.29	650.92
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,973.29	650.92
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,952.15	781.11
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,355.49	781.11
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,355.49	781.11
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,889.97	911.30
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,293.31	911.30
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,293.31	911.30
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	10,244.82	1,041.47
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	10,244.82	1,041.47
22 13 29 16-0060 Submersible Sewage Pump Accessories (22 13 29 16)				
22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	781.83	97.34
Note: Includes alarm horn, warning light and alarm float switch.				
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	807.75	97.34
Note: Includes alarm horn, warning light, and alarm float switch.				
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,597.19	129.79
Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.				
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	2,260.82	129.79
Note: Includes alarm horn and warning light. Control float switches not included.				
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,821.16	129.79
Note: Includes alarm horn and warning light. Control float switches not included.				



	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0066	EA		Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	5,044.08	129.79
22 13 29 16-0067	EA		Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	8,061.88	162.24
22 13 29 16-0068	EA		Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors Note: Includes alarm horn and warning light. Control float switches not included.	6,793.72	162.24
22 13 29 16-0069	EA		Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,769.67	162.24
22 13 29 16-0070	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,951.12	162.24
22 13 29 16-0071	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	1,872.06	162.24
22 13 29 16-0072	EA		Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn, warning light, and three 20' float switches.	2,035.59	162.24
22 13 29 16-0073	EA		Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps Note: Includes alarm horn and warning light. Float switches not included.	3,496.26	162.24
22 13 29 16-0074	EA		Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure Note: Includes alarm horn, warning light and 15' tethered float.	649.55	64.89
22 13 29 16-0075	EA		Variable Level (Clamp Type) Float Switch With 15' Cord Note: Not for use with Intrinsically Safe Control Systems.	121.92	32.45
22 13 29 16-0076	EA		Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only	139.87	32.45
22 13 29 16-0077	EA		Variable Level (Adjustable Weight Type) Float Switch With 25' Cord Note: Not for use with Intrinsically Safe Control Systems.	156.76	32.45
22 13 29 16-0078	EA		Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only	156.88	32.45
22 13 29 16-0079	EA		Float Switch Tree With (3) 15' Floats Note: Not for use with Intrinsically Safe Control Systems.	473.46	32.45
22 13 29 16-0080	EA		Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only	498.58	32.45
22 13 29 16-0081	EA		Float Switch Tree And (4) Floats With 15' Cords Note: Not for use with Intrinsically Safe Control Systems.	527.40	32.45
22 13 29 16-0082	EA		Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only	567.76	32.45
22 13 29 16-0083	EA		Float Switch Tree Note: Tree only.	251.18	32.45
22 13 29 16-0084	EA		Adjustable Weight For Float Switch	66.62	16.22
22 13 29 16-0085	EA		Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge Note: Lifting equipment not included.	1,332.42	97.34
22 13 29 16-0086	EA		Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge Note: Lifting equipment not included.	2,090.75	129.79
22 13 29 16-0087	EA		Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge Note: Lifting equipment not included.	2,731.42	162.24
22 13 29 16-0088	EA		Rail And Disconnect System, Stainless Steel Non-Sparking, For 3" Horizontal Discharge	2,759.72	97.34
22 13 29 16-0089	EA		Rail And Disconnect System, Stainless Steel Non-Sparking, For 4" Horizontal Discharge	3,898.92	97.34
22 13 29 16-0090	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System	380.60	64.89
22 13 29 16-0091	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems	673.30	81.12
22 13 29 16-0092	EA		Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems	673.38	97.34
22 13 29 16-0093	EA		12' Stainless Steel Lifting Cable	187.60	32.45
22 13 29 16-0094	EA		Disconnect Fitting For 2" Horizontal Discharge Note: Used for shallow systems where guide rails are not necessary.	373.69	32.45

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)

22 13 29 33-0002 High-Density Polyethylene (HDPE) Basin (22 13 29 33-0001)

22 13 29 33-0003	EA		18" Diameter x 24" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	165.56	
22 13 29 33-0004	EA		18" Diameter x 30" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	214.66	
22 13 29 33-0005	EA		24" Diameter x 30" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	492.21	
22 13 29 33-0006	EA		24" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	692.18	
22 13 29 33-0007	EA		30" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	892.14	
22 13 29 33-0008	EA		36" Diameter x 36" High, High-Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	1,038.23	

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010	EA		18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	402.61	
22 13 29 33-0011	EA		24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	818.46	
22 13 29 33-0012	EA		30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,469.62	
22 13 29 33-0013	EA		36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,978.17	
22 13 29 33-0014	EA		36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,279.36	
22 13 29 33-0015	EA		36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	2,407.33	
22 13 29 33-0016	EA		36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	2,828.05	
22 13 29 33-0017	EA		48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	3,284.05	

22 60 Gas and Vacuum Systems for Laboratory and Healthcare

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 13 Facility Sanitary Sewerage**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

Facilities ⁽²²⁾**22 66 Chemical-Waste Systems for Laboratory and Healthcare****Facilities** ^(22 60)**22 66 53 Laboratory Chemical-Waste and Vent Piping** ^(22 66)

22 66 53 00-0001	Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings ^(22 66 53)		
22 66 53 00-0002	Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings ^(22 66 53 00-0001)		
22 66 53 00-0003	Schedule 40 Polypropylene Acid Resistant DWV Pipe ^(22 66 53 00-0002)		
22 66 53 00-0004	LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	15.21	6.83
	For Schedule 80, Add	2.56	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	2.19	
	For Work In Restricted Working Space, Add	3.09	
22 66 53 00-0005	LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	18.22	7.66
	For Schedule 80, Add	3.46	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	2.96	
	For Work In Restricted Working Space, Add	3.47	
22 66 53 00-0006	LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	28.77	11.15
	For Schedule 80, Add	6.25	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	5.34	
	For Work In Restricted Working Space, Add	5.03	
22 66 53 00-0007	LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	38.83	14.50
	For Schedule 80, Add	8.87	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	7.59	
	For Work In Restricted Working Space, Add	6.53	
22 66 53 00-0008	LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	62.68	21.33
	For Schedule 80, Add	15.98	
	For Fire Retardant Thermoplastic Pipe (Proxylene), Add	13.67	
	For Work In Restricted Working Space, Add	9.59	
22 66 53 00-0009	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends ^(22 66 53 00-0002)		
22 66 53 00-0010	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	58.50	25.76
	For Work In Restricted Working Space, Add	11.60	
22 66 53 00-0011	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	75.63	34.03
	For Work In Restricted Working Space, Add	15.30	
22 66 53 00-0012	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	100.28	38.94
	For Work In Restricted Working Space, Add	17.54	
22 66 53 00-0013	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	143.90	51.52
	For Work In Restricted Working Space, Add	23.20	
22 66 53 00-0014	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	277.77	76.09
	For Work In Restricted Working Space, Add	34.24	
22 66 53 00-0015	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends ^(22 66 53 00-0002)		
22 66 53 00-0016	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	58.16	25.76
	For Work In Restricted Working Space, Add	11.60	
22 66 53 00-0017	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	74.73	34.03
	For Work In Restricted Working Space, Add	15.30	
22 66 53 00-0018	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	101.99	38.94
	For Work In Restricted Working Space, Add	17.54	
22 66 53 00-0019	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	126.70	51.52
	For Work In Restricted Working Space, Add	23.20	
22 66 53 00-0020	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	251.10	76.09
	For Work In Restricted Working Space, Add	34.24	
22 66 53 00-0021	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees ^(22 66 53 00-0002)		
22 66 53 00-0022	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	107.28	55.12
	For Work In Restricted Working Space, Add	24.79	
22 66 53 00-0023	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	133.72	69.50
	For Work In Restricted Working Space, Add	31.26	
22 66 53 00-0024	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	173.19	76.09
	For Work In Restricted Working Space, Add	34.24	
22 66 53 00-0025	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	238.22	99.94
	For Work In Restricted Working Space, Add	44.94	
22 66 53 00-0026	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	415.53	159.85
	For Work In Restricted Working Space, Add	71.90	
22 66 53 00-0027	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees ^(22 66 53 00-0002)		
22 66 53 00-0028	EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	133.68	69.50
	For Work In Restricted Working Space, Add	31.26	
22 66 53 00-0029	EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	169.06	76.09
	For Work In Restricted Working Space, Add	34.24	



	Plumbing	22	
	Gas and Vacuum Systems for Laboratory and Healthcare Facilities	22 60	22
	Chemical-Waste Systems for Laboratory and Healthcare Facilities	22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee For Work In Restricted Working Space, Add	165.40 34.24	76.09
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... For Work In Restricted Working Space, Add	228.82 44.94	99.94
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... For Work In Restricted Working Space, Add	232.37 44.94	99.94
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... For Work In Restricted Working Space, Add	389.36 71.90	159.85
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug (22 66 53 00-0002)		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug For Work In Restricted Working Space, Add	119.31 24.79	55.12
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug For Work In Restricted Working Space, Add	136.63 31.26	69.50
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug For Work In Restricted Working Space, Add	182.09 34.24	76.09
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug For Work In Restricted Working Space, Add	242.33 44.94	99.94
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug For Work In Restricted Working Space, Add	364.78 71.90	159.85
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes (22 66 53 00-0002)		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... For Work In Restricted Working Space, Add	114.03 24.79	55.12
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... For Work In Restricted Working Space, Add	139.97 31.26	69.50
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... For Work In Restricted Working Space, Add	176.91 34.24	76.09
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... For Work In Restricted Working Space, Add	241.31 44.94	99.94
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... For Work In Restricted Working Space, Add	472.00 71.90	159.85
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes (22 66 53 00-0002)		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	148.24 31.26	69.50
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	172.67 34.24	76.09
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	172.67 34.24	76.09
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	237.65 44.94	99.94
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	237.65 44.94	99.94
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	423.36 71.90	159.85
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	426.21 71.90	159.85
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... For Work In Restricted Working Space, Add	390.56 71.90	159.85
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses (22 66 53 00-0002)		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross For Work In Restricted Working Space, Add	141.92 30.99	68.90
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... For Work In Restricted Working Space, Add	176.52 39.08	86.88
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... For Work In Restricted Working Space, Add	235.23 42.80	95.15
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... For Work In Restricted Working Space, Add	325.87 56.17	124.86
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... For Work In Restricted Working Space, Add	575.28 89.87	199.76
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	105.07 24.79	55.12
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	136.98 31.26	69.50
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	156.08 34.24	76.09
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	215.02 44.94	99.94
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend For Work In Restricted Working Space, Add	127.22 31.26	69.50

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0067	EA		3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	152.15 34.24	76.09
22 66 53 00-0068	EA		3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	153.73 34.24	76.09
22 66 53 00-0069	EA		4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	209.18 44.94	99.94
22 66 53 00-0070	EA		4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	210.18 44.94	99.94
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)					
22 66 53 00-0072	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	124.01 28.76	63.99
22 66 53 00-0073	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	164.86 37.84	84.12
22 66 53 00-0074	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	247.34 51.35	114.20
22 66 53 00-0075	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	345.87 65.36	145.36
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)					
22 66 53 00-0077	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	57.56 11.60	25.76
22 66 53 00-0078	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	70.69 15.30	34.03
22 66 53 00-0079	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	82.83 17.54	38.94
22 66 53 00-0080	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	112.45 23.20	51.52
22 66 53 00-0081	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	166.75 34.24	76.09
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)					
22 66 53 00-0083	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	55.19 11.60	25.76
22 66 53 00-0084	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	72.48 15.30	34.03
22 66 53 00-0085	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	86.12 17.54	38.94
22 66 53 00-0086	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	115.68 23.20	51.52
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)					
22 66 53 00-0088	EA		1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	52.24 11.60	25.76
22 66 53 00-0089	EA		2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	67.18 15.30	34.03
22 66 53 00-0090	EA		3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	78.11 17.54	38.94
22 66 53 00-0091	EA		4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	103.31 23.20	51.52
22 66 53 00-0092	EA		6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	151.91 34.24	76.09
22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53) Note: Acid resistant. ASTM A518.					
22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0093)					
22 66 53 00-0095	LF		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	114.26 11.60	10.66
22 66 53 00-0096	LF		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	160.71 15.30	13.30
22 66 53 00-0097	LF		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	218.50 17.54	15.34
22 66 53 00-0098	LF		6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	358.09 23.20	21.33
22 66 53 00-0099	LF		8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	631.45 23.20	28.59
22 66 53 00-0100	LF		10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	1,116.00 23.20	36.05
22 66 53 00-0101	LF		12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	1,989.24 23.20	48.56
22 66 53 00-0102	LF		15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe <i>For Work In Restricted Working Space, Add</i>	3,541.59 23.20	55.68
22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0093)					
22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0103)					
22 66 53 00-0105	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep <i>For Work In Restricted Working Space, Add</i>	459.65 11.60	90.83
22 66 53 00-0106	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep <i>For Work In Restricted Working Space, Add</i>	599.69 15.30	99.94
22 66 53 00-0107	EA		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep <i>For Work In Restricted Working Space, Add</i>	971.36 17.54	119.59



Plumbing		22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66

22

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0108	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	1,441.92	140.86
22 66 53 00-0109	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	3,308.91	229.72
22 66 53 00-0110 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0103)				
22 66 53 00-0111	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	270.02	90.83
22 66 53 00-0112	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	350.57	99.94
22 66 53 00-0113	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	439.66	119.59
22 66 53 00-0114	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,148.18	140.86
22 66 53 00-0115	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	2,601.34	229.72
22 66 53 00-0116	EA	10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,947.87	286.20
22 66 53 00-0117	EA	12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	5,794.04	344.17
22 66 53 00-0118 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0103)				
22 66 53 00-0119	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	270.02	90.83
22 66 53 00-0120	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	350.57	99.94
22 66 53 00-0121	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	439.66	119.59
22 66 53 00-0122	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	843.29	140.86
22 66 53 00-0123	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,207.21	229.72
22 66 53 00-0124	EA	10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,223.38	286.20
22 66 53 00-0125	EA	12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	4,567.60	344.17
22 66 53 00-0126 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0103)				
22 66 53 00-0127	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	270.02	90.83
22 66 53 00-0128	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	350.57	99.94
22 66 53 00-0129	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	439.37	119.47
22 66 53 00-0130 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0103)				
22 66 53 00-0131	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	366.70	90.83
22 66 53 00-0132	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	644.31	99.94
22 66 53 00-0133	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	722.24	119.59
22 66 53 00-0134 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0103)				
22 66 53 00-0135	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	382.26	135.89
22 66 53 00-0136	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	478.68	150.63
22 66 53 00-0137	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	663.82	179.87
22 66 53 00-0138	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,098.18	211.68
22 66 53 00-0139	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,346.60	344.86
22 66 53 00-0140	EA	10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	4,748.50	430.61
22 66 53 00-0141 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0103)				
22 66 53 00-0142	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	358.93	130.25
22 66 53 00-0143	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	417.92	139.85
22 66 53 00-0144	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	466.14	144.75
22 66 53 00-0145	EA	4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	533.40	159.85
22 66 53 00-0146	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	570.78	164.89
22 66 53 00-0147	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	626.31	169.80
22 66 53 00-0148	EA	6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	777.21	183.18
22 66 53 00-0149	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	861.76	187.89
22 66 53 00-0150	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	963.93	196.53
22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0103)				
22 66 53 00-0152	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	434.25	135.89
22 66 53 00-0153	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	522.70	150.27
22 66 53 00-0154	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	712.10	179.87
22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0103)				
22 66 53 00-0156	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	410.94	130.25
22 66 53 00-0157	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	511.77	145.47
22 66 53 00-0158	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	616.09	165.37
22 66 53 00-0159	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	660.52	170.28
22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0103)				
22 66 53 00-0161	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	378.79	136.13
22 66 53 00-0162	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	519.58	150.63
22 66 53 00-0163	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	663.60	179.75
22 66 53 00-0164	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	1,104.40	210.90

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0165	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	4,186.38	344.51
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0103)				
22 66 53 00-0167	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	388.64	130.25
22 66 53 00-0168	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	417.86	139.85
22 66 53 00-0169	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	441.37	145.59
22 66 53 00-0170	EA	4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	492.50	159.85
22 66 53 00-0171	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	511.58	165.12
22 66 53 00-0172	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	612.19	170.28
22 66 53 00-0173	EA	6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	817.83	183.40
22 66 53 00-0174	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	969.58	187.89
22 66 53 00-0175	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,012.27	196.53
22 66 53 00-0176	EA	8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,465.45	277.92
22 66 53 00-0177	EA	8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,661.39	287.12
22 66 53 00-0178	EA	8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,252.21	301.81
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0103)				
22 66 53 00-0180	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	449.06	135.89
22 66 53 00-0181	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	533.86	150.27
22 66 53 00-0182	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	786.47	179.87
22 66 53 00-0183	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	1,201.48	211.12
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0103)				
22 66 53 00-0185	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	373.76	130.25
22 66 53 00-0186	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	432.73	139.85
22 66 53 00-0187	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	478.30	145.47
22 66 53 00-0188	EA	4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	518.52	159.85
22 66 53 00-0189	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	597.50	165.37
22 66 53 00-0190	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	675.32	170.16
22 66 53 00-0191	EA	6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	866.09	183.40
22 66 53 00-0192	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,077.50	188.00
22 66 53 00-0193	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	1,180.07	196.86
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers (22 66 53 00-0103)				
22 66 53 00-0195	EA	2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	232.35	85.56
22 66 53 00-0196	EA	3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	254.39	90.35
22 66 53 00-0197	EA	3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	283.90	95.15
22 66 53 00-0198	EA	4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	451.92	105.45
22 66 53 00-0199	EA	4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	473.99	110.37
22 66 53 00-0200	EA	6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	510.88	117.51
22 66 53 00-0201	EA	6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	661.89	126.49
22 66 53 00-0202	EA	8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	961.00	172.32
22 66 53 00-0203	EA	8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer.....	1,023.81	186.89
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers (22 66 53 00-0103)				
22 66 53 00-0205	EA	2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	619.34	199.76
22 66 53 00-0206	EA	2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	812.69	199.76
22 66 53 00-0207	EA	3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	830.04	199.76
22 66 53 00-0208	EA	4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser.....	931.97	262.07
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0103)				
22 66 53 00-0210	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	679.02	90.83
22 66 53 00-0211	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	819.06	99.94
22 66 53 00-0212	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	997.39	119.59
22 66 53 00-0213	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap.....	2,921.76	140.86
22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs (22 66 53 00-0103)				
22 66 53 00-0215	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	340.67	90.83
22 66 53 00-0216	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	428.65	99.94
22 66 53 00-0217	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	588.39	119.59
22 66 53 00-0218	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	753.43	140.86
22 66 53 00-0219	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub.....	1,462.21	196.53



Plumbing		22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
22 66 53 00-0220	Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0093) Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.			
22 66 53 00-0221	LB	Lead (1 Lb./Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	6.73	
22 66 53 00-0222	LB	Seal-Tite Packing (1/8 Lb./Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	68.17	
22 66 53 00-0223	Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53) Note: ASTM A518.			
22 66 53 00-0224	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0223)			
22 66 53 00-0225	LF	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	90.63	8.03
22 66 53 00-0226	LF	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	103.10	8.87
22 66 53 00-0227	LF	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	142.14	11.15
22 66 53 00-0228	LF	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	179.21	12.95
22 66 53 00-0229	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0223)			
22 66 53 00-0230	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0229)			
22 66 53 00-0231	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	337.11	63.63
22 66 53 00-0232	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	364.40	71.90
22 66 53 00-0233	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	498.14	79.33
22 66 53 00-0234	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	601.13	95.87
22 66 53 00-0235	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0229)			
22 66 53 00-0236	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	192.10	63.63
22 66 53 00-0237	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	229.43	71.18
22 66 53 00-0238	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	294.05	79.57
22 66 53 00-0239	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	384.40	95.15
22 66 53 00-0240	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend	223.49	67.23
22 66 53 00-0241	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0229)			
22 66 53 00-0242	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend	192.10	63.63
22 66 53 00-0243	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	229.43	71.18
22 66 53 00-0244	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	294.05	79.57
22 66 53 00-0245	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	384.40	95.15
22 66 53 00-0246	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends (22 66 53 00-0229)			
22 66 53 00-0247	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend	225.57	63.63
22 66 53 00-0248	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	281.48	71.18
22 66 53 00-0249	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	431.63	79.57
22 66 53 00-0250	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	484.79	95.15
22 66 53 00-0251	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0229)			
22 66 53 00-0252	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend	218.13	63.63
22 66 53 00-0253	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	259.18	71.18
22 66 53 00-0254	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	398.16	79.57
22 66 53 00-0255	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	451.33	95.15
22 66 53 00-0256	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends (22 66 53 00-0229)			
22 66 53 00-0257	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	329.46	95.75
22 66 53 00-0258	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees (22 66 53 00-0229)			
22 66 53 00-0259	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	269.97	95.75
22 66 53 00-0260	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	332.73	107.84
22 66 53 00-0261	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	436.76	120.19
22 66 53 00-0262	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee	658.16	143.92
22 66 53 00-0263	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees (22 66 53 00-0229)			
22 66 53 00-0264	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	311.77	103.77
22 66 53 00-0265	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	379.68	111.92

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0266	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	404.20	115.87
22 66 53 00-0267	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee	433.31	127.86
22 66 53 00-0268	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	475.99	131.45
22 66 53 00-0269	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	515.43	135.41
22 66 53 00-0270		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0229)		
22 66 53 00-0271	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	270.45	96.11
22 66 53 00-0272	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye	317.85	107.84
22 66 53 00-0273	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	421.88	120.19
22 66 53 00-0274	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	658.16	143.92
22 66 53 00-0275		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0229)		
22 66 53 00-0276	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	301.42	104.37
22 66 53 00-0277	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	368.49	111.80
22 66 53 00-0278	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	386.13	116.24
22 66 53 00-0279	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	433.89	128.22
22 66 53 00-0280	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	477.08	132.17
22 66 53 00-0281	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	504.77	135.77
22 66 53 00-0282		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes (22 66 53 00-0229)		
22 66 53 00-0283	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	403.81	127.98
22 66 53 00-0284	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	513.33	144.04
22 66 53 00-0285	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	655.33	159.38
22 66 53 00-0286	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	852.45	191.61
22 66 53 00-0287	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	444.94	135.52
22 66 53 00-0288	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	497.79	143.56
22 66 53 00-0289	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	591.56	151.47
22 66 53 00-0290	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	653.01	167.76
22 66 53 00-0291	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye	784.75	176.27
22 66 53 00-0292		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses (22 66 53 00-0229)		
22 66 53 00-0293	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	448.36	127.98
22 66 53 00-0294	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	527.92	143.79
22 66 53 00-0295	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	753.37	160.22
22 66 53 00-0296	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,049.82	191.85
22 66 53 00-0297	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	482.05	135.52
22 66 53 00-0298	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross	627.89	143.56
22 66 53 00-0299	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	662.12	151.47
22 66 53 00-0300	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	708.73	167.65
22 66 53 00-0301	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	899.08	175.56
22 66 53 00-0302		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0303	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	299.24	95.38
22 66 53 00-0304	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	347.60	107.84
22 66 53 00-0305	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	421.88	120.19
22 66 53 00-0306	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	699.06	143.92
22 66 53 00-0307		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0308	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	330.45	103.90
22 66 53 00-0309	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	368.96	112.17
22 66 53 00-0310	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	401.00	116.24
22 66 53 00-0311	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	541.72	128.22
22 66 53 00-0312	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	555.17	132.17
22 66 53 00-0313	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	620.04	135.77
22 66 53 00-0314		Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0229)		
22 66 53 00-0315	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	474.11	127.74
22 66 53 00-0316	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	594.74	143.67
22 66 53 00-0317	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	852.90	159.73
22 66 53 00-0318	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,024.40	192.21



Plumbing		22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66

22

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
22 66 53 00-0319 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0229)					
22 66 53 00-0320	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	515.52	135.52	
22 66 53 00-0321	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	616.69	143.44	
22 66 53 00-0322	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	643.53	151.47	
22 66 53 00-0323	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	716.16	167.65	
22 66 53 00-0324	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	899.08	175.56	
22 66 53 00-0325 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers (22 66 53 00-0229)					
22 66 53 00-0326	EA	2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	224.50	67.94	
22 66 53 00-0327	EA	3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	252.80	71.90	
22 66 53 00-0328	EA	3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	296.80	83.88	
22 66 53 00-0329	EA	4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	350.01	79.69	
22 66 53 00-0330	EA	4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	370.85	83.64	
22 66 53 00-0331	EA	4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	391.69	87.60	
22 66 53 00-0332 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees (22 66 53 00-0229)					
22 66 53 00-0333	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	206.58	55.96	
22 66 53 00-0334	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	239.88	63.27	
22 66 53 00-0335	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	282.12	71.66	
22 66 53 00-0336	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	510.09	87.23	
22 66 53 00-0337 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0229)					
22 66 53 00-0338	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	92.34	31.87	
22 66 53 00-0339	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	109.13	35.59	
22 66 53 00-0340	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	119.13	39.79	
22 66 53 00-0341	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	153.17	47.57	
22 66 53 00-0342 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0229)					
22 66 53 00-0343	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	373.73	63.27	
22 66 53 00-0344	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	385.59	71.18	
22 66 53 00-0345	EA	3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	476.25	79.57	
22 66 53 00-0346	EA	4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	607.49	95.15	
22 66 53 00-0347	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	518.40	68.06	
22 66 53 00-0348	EA	2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	712.58	75.97	
22 66 53 00-0349	EA	3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	861.92	83.88	
22 66 53 00-0350	EA	4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	1,071.87	99.94	
22 66 53 00-0351 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0229)					
22 66 53 00-0352	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap	692.04	72.26	
22 66 53 00-0353	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap	1,090.29	79.93	
22 66 53 00-0354	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap	721.35	71.90	
22 66 53 00-0355	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap	1,090.29	79.93	
22 66 53 00-0356 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0229)					
22 66 53 00-0357	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	643.27	71.90	
22 66 53 00-0358	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	755.65	79.93	
22 66 53 00-0359	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap	743.66	71.90	
22 66 53 00-0360	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	1,629.42	79.93	
22 66 53 00-0361	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	971.30	79.93	
22 66 53 00-0362 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends (22 66 53 00-0229)					
22 66 53 00-0363	EA	1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	270.62	63.99	
22 66 53 00-0364	EA	2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	353.24	71.90	
22 66 53 00-0365 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters (22 66 53 00-0229)					
22 66 53 00-0366	EA	1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	138.83	47.93	
22 66 53 00-0367	EA	1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	252.64	52.01	

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0368	EA	2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	186.55	59.92
22 66 53 00-0369		Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter (22 66 53 00-0229)		
22 66 53 00-0370	EA	1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	258.45	68.19
22 66 53 00-0371	EA	1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	282.54	71.90
22 66 53 00-0372	EA	1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	314.56	75.85
22 66 53 00-0373	EA	1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	337.39	83.64
22 66 53 00-0374	EA	2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	314.62	75.97
22 66 53 00-0375	EA	2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	331.71	79.93
22 66 53 00-0376	EA	2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	358.23	87.60
22 66 53 00-0377	EA	3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	404.68	83.88
22 66 53 00-0378	EA	4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	499.30	99.94
22 66 53 00-0379		Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0229)		
22 66 53 00-0380	EA	1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	89.24	
22 66 53 00-0381	EA	2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	104.11	
22 66 53 00-0382	EA	3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	111.55	
22 66 53 00-0383	EA	4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	122.70	
22 66 53 00-0384		Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings (22 66 53 00-0229)		
22 66 53 00-0385	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet	661.43	31.99
22 66 53 00-0386	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper	250.77	15.94
22 66 53 00-0387	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow	466.42	15.94
22 66 53 00-0388		Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates (22 66 53 00-0229)		
22 66 53 00-0389	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer	2,373.90	159.85
22 66 53 00-0390	EA	Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer	2,928.73	167.88
22 66 53 00-0391	EA	Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain	1,964.84	15.94
22 66 53 00-0392		Chlorinated Polyvinyl Chloride (CPVC) Drain-Waste-Vent (DWV) Pipe And Fittings (ASTM F2618) (22 66 53)		
22 66 53 00-0393		Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe (22 66 53 00-0392)		
		Note: Excludes fittings or hangers.		
22 66 53 00-0394	LF	1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	13.44	5.03
22 66 53 00-0395	LF	2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	17.02	5.99
22 66 53 00-0396	LF	3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	27.40	8.62
22 66 53 00-0397	LF	4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	34.56	9.35
22 66 53 00-0398	LF	6" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	53.97	11.23
22 66 53 00-0399	LF	8" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe	116.93	14.93
22 66 53 00-0400		Chlorinated Polyvinyl Chloride (CPVC) DWV Fittings (22 66 53 00-0392)		
22 66 53 00-0401		Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends (22 66 53 00-0400)		
22 66 53 00-0402	EA	1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	52.72	20.02
		Note: 0.125		
		For Work In Restricted Working Space, Add	8.99	
22 66 53 00-0403	EA	2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	66.62	25.52
		Note: 0.16		
		For Work In Restricted Working Space, Add	11.50	
22 66 53 00-0404	EA	3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	99.55	34.27
		Note: 0.215		
		For Work In Restricted Working Space, Add	15.46	
22 66 53 00-0405	EA	4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	136.33	39.90
		Note: 0.25		
		For Work In Restricted Working Space, Add	17.98	
22 66 53 00-0406	EA	6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	275.62	51.89
		Note: 0.325		
		For Work In Restricted Working Space, Add	23.37	
22 66 53 00-0407	EA	8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends	380.46	69.86
		Note: 0.438		
		For Work In Restricted Working Space, Add	31.46	
22 66 53 00-0408		Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends (22 66 53 00-0400)		
22 66 53 00-0409	EA	1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends	53.51	20.02
		For Work In Restricted Working Space, Add	8.99	
22 66 53 00-0410	EA	2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends	70.45	25.52
		For Work In Restricted Working Space, Add	11.50	



		Plumbing	22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 66 53 00-0411	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends	106.45		34.27
	For Work In Restricted Working Space, Add	15.46		
22 66 53 00-0412	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends	138.86		39.90
	For Work In Restricted Working Space, Add	17.98		
22 66 53 00-0413 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends (22 66 53 00-0400)				
22 66 53 00-0414	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends	52.33		20.02
	For Work In Restricted Working Space, Add	8.99		
22 66 53 00-0415	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends	65.58		25.52
	For Work In Restricted Working Space, Add	11.50		
22 66 53 00-0416	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends	101.53		34.27
	For Work In Restricted Working Space, Add	15.46		
22 66 53 00-0417	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends	116.59		39.90
	For Work In Restricted Working Space, Add	17.98		
22 66 53 00-0418	EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends	243.42		51.89
	For Work In Restricted Working Space, Add	23.37		
22 66 53 00-0419	EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends	343.52		69.86
	For Work In Restricted Working Space, Add	31.46		
22 66 53 00-0420 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends (22 66 53 00-0400)				
22 66 53 00-0421	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends	52.78		20.02
	For Work In Restricted Working Space, Add	8.99		
22 66 53 00-0422	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends	65.55		25.52
	For Work In Restricted Working Space, Add	11.50		
22 66 53 00-0423	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends	100.71		34.27
	For Work In Restricted Working Space, Add	15.46		
22 66 53 00-0424	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends	123.02		39.90
	For Work In Restricted Working Space, Add	17.98		
22 66 53 00-0425	EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends	204.06		51.89
	For Work In Restricted Working Space, Add	23.37		
22 66 53 00-0426	EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends	234.95		69.86
	For Work In Restricted Working Space, Add	31.46		
22 66 53 00-0427 Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends (22 66 53 00-0400)				
22 66 53 00-0428	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends	263.94		51.52
	For Work In Restricted Working Space, Add	23.19		
22 66 53 00-0429	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends	203.51		38.34
	For Work In Restricted Working Space, Add	17.26		
22 66 53 00-0430	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends	128.47		29.96
	For Work In Restricted Working Space, Add	13.48		
22 66 53 00-0431 Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees (22 66 53 00-0400)				
22 66 53 00-0432	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees	73.22		29.96
	For Work In Restricted Working Space, Add	13.48		
22 66 53 00-0433	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees	91.40		38.34
	For Work In Restricted Working Space, Add	17.26		
22 66 53 00-0434	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees	145.09		51.52
	For Work In Restricted Working Space, Add	23.19		
22 66 53 00-0435	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees	191.42		59.92
	For Work In Restricted Working Space, Add	26.96		
22 66 53 00-0436	EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees	455.30		77.77
	For Work In Restricted Working Space, Add	35.05		
22 66 53 00-0437	EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees	628.93		104.73
	For Work In Restricted Working Space, Add	47.18		
22 66 53 00-0438 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees (22 66 53 00-0400)				
22 66 53 00-0439	EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	82.94		32.71
	For Work In Restricted Working Space, Add	14.74		
22 66 53 00-0440	EA 2" x 1-1/2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	88.66		35.47
	For Work In Restricted Working Space, Add	16.00		
22 66 53 00-0441	EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	87.13		35.47
	For Work In Restricted Working Space, Add	16.00		
22 66 53 00-0442	EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	125.35		44.33
	For Work In Restricted Working Space, Add	19.95		
22 66 53 00-0443	EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	133.96		47.09
	For Work In Restricted Working Space, Add	21.21		
22 66 53 00-0444	EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	169.82		52.73
	For Work In Restricted Working Space, Add	23.73		
22 66 53 00-0445	EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	180.47		57.04
	For Work In Restricted Working Space, Add	25.70		
22 66 53 00-0446	EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	344.85		71.78
	For Work In Restricted Working Space, Add	32.35		
22 66 53 00-0447	EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees	752.88		89.76
	For Work In Restricted Working Space, Add	40.44		

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0448	Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees (22 66 53 00-0400)			
22 66 53 00-0449	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	102.53	39.90	
	For Work In Restricted Working Space, Add	17.98		
22 66 53 00-0450	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	126.94	51.05	
	For Work In Restricted Working Space, Add	23.01		
22 66 53 00-0451	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	170.25	68.66	
	For Work In Restricted Working Space, Add	30.92		
22 66 53 00-0452	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees.....	209.51	79.81	
	For Work In Restricted Working Space, Add	35.95		
22 66 53 00-0453	Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Sanitary Tees (22 66 53 00-0400)			
22 66 53 00-0454	EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee	124.43	45.53	
	For Work In Restricted Working Space, Add	20.49		
22 66 53 00-0455	EA 3" x 3" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee	148.57	54.28	
	For Work In Restricted Working Space, Add	24.45		
22 66 53 00-0456	EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee.....	184.32	59.92	
	For Work In Restricted Working Space, Add	26.96		
22 66 53 00-0457	EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee.....	171.14	65.43	
	For Work In Restricted Working Space, Add	29.48		
22 66 53 00-0458	EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee.....	191.90	74.17	
	For Work In Restricted Working Space, Add	33.43		
22 66 53 00-0459	Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers (22 66 53 00-0400)			
22 66 53 00-0460	EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	68.95	22.77	
	For Work In Restricted Working Space, Add	10.25		
22 66 53 00-0461	EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	77.48	27.08	
	For Work In Restricted Working Space, Add	12.22		
22 66 53 00-0462	EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	118.43	29.96	
	For Work In Restricted Working Space, Add	13.48		
22 66 53 00-0463	EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	129.88	32.71	
	For Work In Restricted Working Space, Add	14.74		
22 66 53 00-0464	EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	143.83	37.14	
	For Work In Restricted Working Space, Add	16.72		
22 66 53 00-0465	EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	191.06	43.14	
	For Work In Restricted Working Space, Add	19.41		
22 66 53 00-0466	EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers.....	217.90	45.90	
	For Work In Restricted Working Space, Add	20.67		
22 66 53 00-0467	Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushings (22 66 53 00-0400)			
22 66 53 00-0468	EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing	53.11	22.77	
	For Work In Restricted Working Space, Add	10.25		
22 66 53 00-0469	EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing	60.78	27.08	
	For Work In Restricted Working Space, Add	12.22		
22 66 53 00-0470	EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	66.79	29.96	
	For Work In Restricted Working Space, Add	13.48		
22 66 53 00-0471	EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	97.62	32.71	
	For Work In Restricted Working Space, Add	14.74		
22 66 53 00-0472	EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	105.34	37.14	
	For Work In Restricted Working Space, Add	16.72		
22 66 53 00-0473	EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	155.73	43.14	
	For Work In Restricted Working Space, Add	19.41		
22 66 53 00-0474	EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	155.71	45.90	
	For Work In Restricted Working Space, Add	20.67		
22 66 53 00-0475	EA 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	397.96	54.89	
	For Work In Restricted Working Space, Add	24.74		
22 66 53 00-0476	EA 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing.....	420.59	60.87	
	For Work In Restricted Working Space, Add	27.43		
22 66 53 00-0477	Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps (22 66 53 00-0400)			
22 66 53 00-0478	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	89.33	29.96	
	For Work In Restricted Working Space, Add	13.48		
22 66 53 00-0479	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	119.46	38.34	
	For Work In Restricted Working Space, Add	17.26		
22 66 53 00-0480	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	189.74	51.52	
	For Work In Restricted Working Space, Add	23.19		
22 66 53 00-0481	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps	289.74	59.92	
	For Work In Restricted Working Space, Add	26.96		
22 66 53 00-0482	Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes (22 66 53 00-0400)			
22 66 53 00-0483	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	73.77	29.96	
	For Work In Restricted Working Space, Add	13.48		
22 66 53 00-0484	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	97.96	38.34	
	For Work In Restricted Working Space, Add	17.26		
22 66 53 00-0485	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes	149.38	51.52	
	For Work In Restricted Working Space, Add	23.19		



		Plumbing	22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
22 66 53 00-0486	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	194.94	26.96	59.92
22 66 53 00-0487	EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	383.54	35.05	77.77
22 66 53 00-0488	EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	447.58	47.18	104.73
22 66 53 00-0489 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes (22 66 53 00-0400)				
22 66 53 00-0490	EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	80.64	14.74	32.71
22 66 53 00-0491	EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	93.76	16.00	35.47
22 66 53 00-0492	EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	128.57	19.95	44.33
22 66 53 00-0493	EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	137.88	21.21	47.09
22 66 53 00-0494	EA 4" x 4" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	141.58	22.47	49.85
22 66 53 00-0495	EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	175.79	23.73	52.73
22 66 53 00-0496	EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	186.53	25.70	57.04
22 66 53 00-0497	EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	281.03	32.35	71.78
22 66 53 00-0498	EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	336.56	40.44	89.76
22 66 53 00-0499	EA 8" x 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	368.32	43.14	95.75
22 66 53 00-0500 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes (22 66 53 00-0400)				
22 66 53 00-0501	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	114.01	17.98	39.90
22 66 53 00-0502	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	133.87	23.01	51.05
22 66 53 00-0503	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	206.43	30.92	68.66
22 66 53 00-0504	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	355.65	35.95	79.81
22 66 53 00-0505	EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	565.87	46.73	103.77
22 66 53 00-0506 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Wyes (22 66 53 00-0400)				
22 66 53 00-0507	EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	154.12	20.49	45.53
22 66 53 00-0508	EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	195.46	26.96	59.92
22 66 53 00-0509	EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	320.34	33.43	74.17
22 66 53 00-0510	EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	464.25	41.34	91.79
22 66 53 00-0511 Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends (22 66 53 00-0400)				
22 66 53 00-0512	EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	82.58	13.48	29.96
22 66 53 00-0513	EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	107.74	17.26	38.34
22 66 53 00-0514	EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	157.48	23.19	51.52
22 66 53 00-0515	EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	203.75	26.96	59.92
22 66 53 00-0516	EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	424.62	35.05	77.77
22 66 53 00-0517	EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	723.60	47.18	104.73
22 66 53 00-0518 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Combination Wye And 1/8 Bends (22 66 53 00-0400)				
22 66 53 00-0519	EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	80.44	14.74	32.71
22 66 53 00-0520	EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	98.54	16.00	35.47
22 66 53 00-0521	EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	133.20	19.95	44.33
22 66 53 00-0522	EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	142.94	21.21	47.09

22 Plumbing**22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0523 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	179.13 23.73	52.73
22 66 53 00-0524 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	190.64 25.70	57.04
22 66 53 00-0525 EA 6" x 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	336.62 31.10	69.02
22 66 53 00-0526 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	349.78 32.35	71.78
22 66 53 00-0527 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0528 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	121.03 17.98	39.90
22 66 53 00-0529 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	175.97 23.01	51.05
22 66 53 00-0530 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	273.69 30.92	68.66
22 66 53 00-0531 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	443.18 35.95	79.81
22 66 53 00-0532 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	606.34 46.73	103.77
22 66 53 00-0533 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 66 53 00-0400)		
22 66 53 00-0534 EA 2" x 2" x 1-1/2" x 1-1/2 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	154.13 20.49	45.53
22 66 53 00-0535 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	232.93 26.96	59.92
22 66 53 00-0536 EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	277.40 29.48	65.43
22 66 53 00-0537 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	290.58 33.43	74.17
22 66 53 00-0538 EA 6" x 6" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	363.37 38.82	86.16
22 66 53 00-0539 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	404.80 41.34	91.79
22 66 53 00-0540 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees With Plug (22 66 53 00-0400)		
22 66 53 00-0541 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	78.62 13.48	29.96
22 66 53 00-0542 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	94.72 17.26	38.34
22 66 53 00-0543 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	155.31 23.19	51.52
22 66 53 00-0544 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	196.12 26.96	59.92
22 66 53 00-0545 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	403.74 35.05	77.77
22 66 53 00-0546 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	20.07 4.49	9.95
22 66 53 00-0547 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	24.75 5.75	12.70
22 66 53 00-0548 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	35.49 7.73	17.14
22 66 53 00-0549 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	40.87 8.99	19.89
22 66 53 00-0550 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	64.39 11.68	25.88
22 66 53 00-0551 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug (22 66 53 00-0400)		
22 66 53 00-0552 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	44.69 8.99	20.02
22 66 53 00-0553 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	55.70 11.50	25.52
22 66 53 00-0554 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	83.56 15.46	34.27
22 66 53 00-0555 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	115.03 17.98	39.90
22 66 53 00-0556 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	173.22 23.37	51.89
22 66 53 00-0557 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	294.69 31.49	69.86
22 66 53 00-0558 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 66 53 00-0400)		
22 66 53 00-0559 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	47.74 8.99	20.02



		Plumbing	22
Gas and Vacuum Systems for Laboratory and Healthcare Facilities		22 60	22
Chemical-Waste Systems for Laboratory and Healthcare Facilities		22 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0560 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	60.54 11.50	25.52
22 66 53 00-0561 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	79.92 15.46	34.27
22 66 53 00-0562 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	100.33 17.98	39.90
22 66 53 00-0563 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	141.95 23.37	51.89
22 66 53 00-0564 EA 8" Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	277.73 31.49	69.86
22 66 53 00-0565 Chlorinated Polyvinyl Chloride (CPVC) Female Adapters (22 66 53 00-0400)		
22 66 53 00-0566 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	28.97	9.95
22 66 53 00-0567 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	38.24	12.83
22 66 53 00-0568 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	57.21	17.14
22 66 53 00-0569 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	90.41	20.02
22 66 53 00-0570 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	140.20	25.88
22 66 53 00-0571 Chlorinated Polyvinyl Chloride (CPVC) Male Adapters (22 66 53 00-0400)		
22 66 53 00-0572 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	31.73	9.95
22 66 53 00-0573 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	44.32	12.83
22 66 53 00-0574 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	53.29	17.14
22 66 53 00-0575 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	87.36	20.02
22 66 53 00-0576 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	116.42	25.88
22 66 53 00-0577 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 66 53 00-0400)		
22 66 53 00-0578 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap	28.81	9.95
22 66 53 00-0579 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	35.73	12.83
22 66 53 00-0580 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	54.36	17.14
22 66 53 00-0581 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	88.26	20.02
22 66 53 00-0582 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	112.82	25.88
22 66 53 00-0583 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	174.32	34.99

END OF SECTION 22

22	22	Plumbing
	22 60	Gas and Vacuum Systems for Laboratory and Healthcare Facilities
	22 66	Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST

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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 05 Common Work Results for HVAC ⁽²³⁾

23 05 23 General-Duty Valves For HVAC Piping ^(23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 22 05 23 00-0000 for additional valves.

23 05 23 00-0001	Gate Valves ^(23 05 23)		
23 05 23 00-0002	Class 125 Threaded, Bronze Gate Valves ^(23 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.			
23 05 23 00-0003	EA 1/4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	71.40	13.01
	For 150 Lb. Rating, Add	3.35	
	For 200 Lb. Rating, Add	5.03	
	For 250 Lb. Rating, Add	8.38	
	For 300 Lb. Rating, Add	11.73	
	For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0004	EA 3/8" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	73.39	13.01
	For 150 Lb. Rating, Add	3.35	
	For 200 Lb. Rating, Add	5.03	
	For 250 Lb. Rating, Add	8.38	
	For 300 Lb. Rating, Add	11.73	
	For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0005	EA 1/2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	75.48	13.01
	For 150 Lb. Rating, Add	3.35	
	For 200 Lb. Rating, Add	5.03	
	For 250 Lb. Rating, Add	8.38	
	For 300 Lb. Rating, Add	11.73	
	For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0006	EA 3/4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	96.56	14.31
	For 150 Lb. Rating, Add	4.00	
	For 200 Lb. Rating, Add	6.00	
	For 250 Lb. Rating, Add	10.00	
	For 300 Lb. Rating, Add	13.99	
	For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0007	EA 1" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	128.88	16.27
	For 150 Lb. Rating, Add	6.04	
	For 200 Lb. Rating, Add	9.06	
	For 250 Lb. Rating, Add	15.10	
	For 300 Lb. Rating, Add	21.14	
	For Work In Restricted Working Space, Add	20.55	
23 05 23 00-0008	EA 1-1/4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	168.17	17.31
	For 150 Lb. Rating, Add	8.14	
	For 200 Lb. Rating, Add	12.21	
	For 250 Lb. Rating, Add	20.36	
	For 300 Lb. Rating, Add	28.50	
	For Work In Restricted Working Space, Add	26.02	
23 05 23 00-0009	EA 1-1/2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	202.69	20.03
	For 150 Lb. Rating, Add	10.26	
	For 200 Lb. Rating, Add	15.39	
	For 250 Lb. Rating, Add	25.65	
	For 300 Lb. Rating, Add	35.91	
	For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0010	EA 2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	258.49	23.68
	For 150 Lb. Rating, Add	14.02	
	For 200 Lb. Rating, Add	21.03	
	For 250 Lb. Rating, Add	35.05	
	For 300 Lb. Rating, Add	49.07	
	For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0011	EA 2-1/2" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	559.63	31.99
	For Chain Operated Type, Add	179.94	
	For 150 Lb. Rating, Add	39.99	
	For 200 Lb. Rating, Add	59.98	
	For 250 Lb. Rating, Add	99.97	
	For 300 Lb. Rating, Add	139.95	
	For Work In Restricted Working Space, Add	47.93	
23 05 23 00-0012	EA 3" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	662.33	37.14
	For Chain Operated Type, Add	215.09	
	For 150 Lb. Rating, Add	47.80	
	For 200 Lb. Rating, Add	71.70	
	For 250 Lb. Rating, Add	119.50	
	For 300 Lb. Rating, Add	167.29	
	For Work In Restricted Working Space, Add	55.31	
23 05 23 00-0013	EA 4" Diameter, 125 Lb., Threaded Bronze Gate Valve.....	1,348.38	41.94
	For Chain Operated Type, Add	512.41	
	For 150 Lb. Rating, Add	113.87	
	For 200 Lb. Rating, Add	170.80	
	For 250 Lb. Rating, Add	284.67	
	For 300 Lb. Rating, Add	398.54	
	For Work In Restricted Working Space, Add	62.91	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 05 23 00-0014	Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.			
23 05 23 00-0015	EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	297.99		20.03
	For 150 Lb. Rating, Add	39.58		
	For 250 Lb. Rating, Add	69.27		
	For Chain Operated Type, Add	69.27		
	For Work In Restricted Working Space, Add	30.02		
23 05 23 00-0016	EA 2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	452.71		23.68
	For 150 Lb. Rating, Add	66.88		
	For 250 Lb. Rating, Add	117.05		
	For Chain Operated Type, Add	117.05		
	For Work In Restricted Working Space, Add	35.49		
23 05 23 00-0017	EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	662.74		31.99
	For 150 Lb. Rating, Add	100.59		
	For 250 Lb. Rating, Add	176.04		
	For Chain Operated Type, Add	176.04		
	For Work In Restricted Working Space, Add	47.93		
23 05 23 00-0018	EA 3" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	844.27		37.14
	For 150 Lb. Rating, Add	131.98		
	For 250 Lb. Rating, Add	230.97		
	For Chain Operated Type, Add	230.97		
	For Work In Restricted Working Space, Add	55.31		
23 05 23 00-0019	EA 4" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	1,986.14		41.94
	For 150 Lb. Rating, Add	355.29		
	For 250 Lb. Rating, Add	621.75		
	For Chain Operated Type, Add	621.75		
	For Work In Restricted Working Space, Add	62.91		
23 05 23 00-0020	Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001) Note: 125 psi steam, basic rating. 200 psi cold working pressure.			
23 05 23 00-0021	EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	779.15		136.62
	For 150 Lb. Rating, Add	176.31		
	For 250 Lb. Rating, Add	303.98		
	For 300 Lb. Rating, ASTM A182, Add	693.55		
	For Chain Operated Type, Add	303.98		
	For Work In Restricted Working Space, Add	51.36		
23 05 23 00-0022	EA 2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	852.68		173.44
	For 150 Lb. Rating, Add	184.39		
	For 250 Lb. Rating, Add	317.91		
	For 300 Lb. Rating, ASTM A182, Add	744.25		
	For Chain Operated Type, Add	317.91		
	For Work In Restricted Working Space, Add	65.06		
23 05 23 00-0023	EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	980.74		173.76
	For 150 Lb. Rating, Add	221.23		
	For 250 Lb. Rating, Add	381.43		
	For 300 Lb. Rating, ASTM A182, Add	871.80		
	For Chain Operated Type, Add	381.43		
	For Work In Restricted Working Space, Add	65.36		
23 05 23 00-0024	EA 3" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,208.49		203.71
	For 150 Lb. Rating, Add	276.52		
	For 250 Lb. Rating, Add	476.77		
	For 300 Lb. Rating, ASTM A182, Add	1,081.01		
	For Chain Operated Type, Add	476.77		
	For Work In Restricted Working Space, Add	76.49		
23 05 23 00-0025	EA 4" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,699.41		341.52
	For 150 Lb. Rating, Add	368.72		
	For 250 Lb. Rating, Add	635.72		
	For 300 Lb. Rating, ASTM A182, Add	1,485.43		
	For Chain Operated Type, Add	635.72		
	For Work In Restricted Working Space, Add	128.39		
23 05 23 00-0026	EA 5" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,106.59		363.65
	For 150 Lb. Rating, Add	479.29		
	For 250 Lb. Rating, Add	826.36		
	For 300 Lb. Rating, ASTM A182, Add	1,879.66		
	For Chain Operated Type, Add	826.36		
	For Work In Restricted Working Space, Add	136.16		
23 05 23 00-0027	EA 6" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,540.77		404.06
	For 150 Lb. Rating, Add	589.83		
	For 250 Lb. Rating, Add	1,016.95		
	For 300 Lb. Rating, ASTM A182, Add	2,287.33		
	For Chain Operated Type, Add	1,016.95		
	For Work In Restricted Working Space, Add	152.06		
23 05 23 00-0028	EA 8" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	4,010.52		516.30
	For 150 Lb. Rating, Add	977.06		
	For 250 Lb. Rating, Add	1,684.58		
	For 300 Lb. Rating, ASTM A182, Add	3,689.84		
	For Chain Operated Type, Add	1,684.58		
	For Work In Restricted Working Space, Add	192.41		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0029	EA		10" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	5,235.19	628.53
			For 150 Lb. Rating, Add	1,290.36	
			For 250 Lb. Rating, Add	2,224.77	
			For 300 Lb. Rating, ASTM A182, Add	4,842.36	
			For Chain Operated Type, Add	2,224.77	
			For Work In Restricted Working Space, Add	235.70	
23 05 23 00-0030	EA		12" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	7,309.12	763.22
			For 150 Lb. Rating, Add	1,843.47	
			For 250 Lb. Rating, Add	3,178.40	
			For 300 Lb. Rating, ASTM A182, Add	6,832.96	
			For Chain Operated Type, Add	3,178.40	
			For Work In Restricted Working Space, Add	285.70	
23 05 23 00-0031 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001)					
Note: 125 psi steam, basic rating. 200 psi cold working pressure.					
23 05 23 00-0032	EA		1-1/2" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	585.21	20.03
			For 175 Lb. Rating, Add	242.57	
			For 250 Lb. Rating, Add	363.85	
			For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0033	EA		2" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	745.44	23.68
			For 175 Lb. Rating, Add	313.58	
			For 250 Lb. Rating, Add	470.36	
			For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0034	EA		2-1/2" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	866.96	31.99
			For 175 Lb. Rating, Add	353.60	
			For 250 Lb. Rating, Add	530.39	
			For Work In Restricted Working Space, Add	47.93	
23 05 23 00-0035	EA		3" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	964.66	37.14
			For 175 Lb. Rating, Add	390.16	
			For 250 Lb. Rating, Add	585.23	
			For Work In Restricted Working Space, Add	55.31	
23 05 23 00-0036	EA		4" Diameter, 125 Lb. Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,287.20	41.94
			For 175 Lb. Rating, Add	538.75	
			For 250 Lb. Rating, Add	808.13	
			For Work In Restricted Working Space, Add	62.91	
23 05 23 00-0037 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001)					
Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".					
23 05 23 00-0038	EA		1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,047.60	136.62
			For 150 Lb. Rating, Add	131.46	
			For 175 Lb. Rating, Add	271.68	
			For 250 Lb. Rating, Add	569.66	
			For Chain Operated Type, Add	438.20	
			For Work In Restricted Working Space, Add	51.36	
23 05 23 00-0039	EA		2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,119.30	173.44
			For 150 Lb. Rating, Add	135.37	
			For 175 Lb. Rating, Add	279.76	
			For 250 Lb. Rating, Add	586.59	
			For Chain Operated Type, Add	451.22	
			For Work In Restricted Working Space, Add	65.06	
23 05 23 00-0040	EA		2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,149.77	173.76
			For 150 Lb. Rating, Add	139.78	
			For 175 Lb. Rating, Add	288.89	
			For 250 Lb. Rating, Add	605.73	
			For Chain Operated Type, Add	465.95	
			For Work In Restricted Working Space, Add	65.36	
23 05 23 00-0041	EA		3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,280.29	203.71
			For 150 Lb. Rating, Add	153.80	
			For 175 Lb. Rating, Add	317.65	
			For 250 Lb. Rating, Add	666.46	
			For Chain Operated Type, Add	512.67	
			For Work In Restricted Working Space, Add	76.49	
23 05 23 00-0042	EA		4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,671.43	341.52
			For 150 Lb. Rating, Add	186.52	
			For 175 Lb. Rating, Add	385.47	
			For 250 Lb. Rating, Add	808.25	
			For Chain Operated Type, Add	621.73	
			For Work In Restricted Working Space, Add	128.39	
23 05 23 00-0043	EA		5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,188.77	363.65
			For 150 Lb. Rating, Add	260.24	
			For 175 Lb. Rating, Add	537.62	
			For 250 Lb. Rating, Add	1,127.69	
			For Chain Operated Type, Add	867.45	
			For Work In Restricted Working Space, Add	136.16	
23 05 23 00-0044	EA		6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,488.20	404.06
			For 150 Lb. Rating, Add	297.20	
			For 175 Lb. Rating, Add	614.21	
			For 250 Lb. Rating, Add	1,287.86	
			For Chain Operated Type, Add	990.66	
			For Work In Restricted Working Space, Add	152.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0045	EA		8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For 150 Lb. Rating, Add</i> <i>For 175 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,992.31 502.64 1,038.79 2,178.12 1,675.48 192.41	516.30
23 05 23 00-0046	EA		10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For 150 Lb. Rating, Add</i> <i>For 175 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,942.77 773.57 1,598.70 3,352.12 2,578.56 235.70	628.53
23 05 23 00-0047	EA		12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For 150 Lb. Rating, Add</i> <i>For 175 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,488.53 980.43 2,026.22 4,248.53 3,268.10 285.70	763.22
23 05 23 00-0048			Ball Valves (23 05 23)		
23 05 23 00-0049			Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0048) Note: 125 Lb. WSP.		
23 05 23 00-0050	EA		1/2" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.00 2.63 6.76 12.59	13.01
23 05 23 00-0051	EA		3/4" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.69 2.63 10.40 16.97	14.31
23 05 23 00-0052	EA		1" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.68 2.63 14.04 20.55	16.27
23 05 23 00-0053	EA		1-1/4" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.12 2.63 23.57 26.02	17.31
23 05 23 00-0054	EA		1-1/2" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.98 2.63 30.11 30.02	20.03
23 05 23 00-0055	EA		2" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	202.09 2.63 37.71 35.49	23.68
23 05 23 00-0056	EA		2-1/2" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	555.24 2.63 177.96 47.93	31.99
23 05 23 00-0057	EA		3" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	640.64 2.63 205.33 55.31	37.14
23 05 23 00-0058	EA		4" Threaded Or Sweated, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	831.79 2.63 279.94 62.91	41.94
23 05 23 00-0059			Screwed, 150 Lb., Full Port, Carbon Steel Ball Valves (23 05 23 00-0048)		
23 05 23 00-0060	EA		1/4" Screwed, 150 Lb., Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	66.65 11.37	13.01
23 05 23 00-0061	EA		1/2" Screwed, 150 Lb., Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	73.19 12.59	13.01
23 05 23 00-0062	EA		3/4" Screwed, 150 Lb., Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	101.73 16.97	14.31
23 05 23 00-0063	EA		1" Screwed, 150 Lb., Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	129.20 20.55	16.27
23 05 23 00-0064	EA		1-1/4" Screwed, 150 Lb., Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	190.50 26.02	17.31
23 05 23 00-0065	EA		1-1/2" Screwed, 150 Lb., Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	231.53 30.02	20.03
23 05 23 00-0066	EA		2" Screwed, 150 Lb., Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	299.29 35.49	23.68
23 05 23 00-0067			Flanged, 150 Lb., Full Port, Carbon Steel Ball Valves (23 05 23 00-0048)		



Heating, Ventilating, and Air-Conditioning (HVAC)

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Common Work Results for HVAC 23 05

General-Duty Valves For HVAC Piping 23 05 23

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0068	EA		1-1/2" Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	627.66	136.62
			For 150 Lb. Rating, Add	132.37	
			For 250 Lb. Rating, Add	228.23	
			For 300 Lb. Rating, ASTM A182, Add	542.06	
			For Chain Operated Type, Add	228.23	
			For Work In Restricted Working Space, Add	51.36	
			For Work In Restricted Working Space, Add	51.36	
23 05 23 00-0069	EA		2" Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve.....	783.14	173.44
			For 150 Lb. Rating, Add	164.22	
			For 250 Lb. Rating, Add	283.14	
			For 300 Lb. Rating, ASTM A182, Add	674.71	
			For Chain Operated Type, Add	283.14	
			For Work In Restricted Working Space, Add	65.06	
			For Work In Restricted Working Space, Add	65.06	
23 05 23 00-0070	EA		2-1/2" Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve	1,252.33	173.76
			For 150 Lb. Rating, Add	299.99	
			For 250 Lb. Rating, Add	517.23	
			For 300 Lb. Rating, ASTM A182, Add	1,143.39	
			For Chain Operated Type, Add	517.23	
			For Work In Restricted Working Space, Add	65.36	
			For Work In Restricted Working Space, Add	65.36	
23 05 23 00-0071	EA		3" Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve.....	1,373.41	203.71
			For 150 Lb. Rating, Add	324.35	
			For 250 Lb. Rating, Add	559.23	
			For 300 Lb. Rating, ASTM A182, Add	1,245.93	
			For Chain Operated Type, Add	559.23	
			For Work In Restricted Working Space, Add	76.49	
			For Work In Restricted Working Space, Add	76.49	
23 05 23 00-0072	EA		4" Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve.....	1,998.94	341.52
			For Work In Restricted Working Space, Add	128.39	
23 05 23 00-0073	EA		6" Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve.....	4,766.32	404.06
			For Work In Restricted Working Space, Add	152.06	
23 05 23 00-0074	EA		8" Flanged, 150 Lb., Full Port, Carbon Steel Ball Valve.....	8,198.84	516.30
			For Work In Restricted Working Space, Add	192.41	
23 05 23 00-0075			Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves (23 05 23 00-0048)		
23 05 23 00-0076	EA		1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	48.26	13.01
			For True Union Socket Or Thread Type, Add	4.72	
			For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0077	EA		3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	63.82	14.31
			For True Union Socket Or Thread Type, Add	5.87	
			For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0078	EA		1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	78.58	16.27
			For True Union Socket Or Thread Type, Add	7.63	
			For Work In Restricted Working Space, Add	20.55	
23 05 23 00-0079	EA		1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	99.99	17.31
			For True Union Socket Or Thread Type, Add	9.85	
			For Work In Restricted Working Space, Add	26.02	
23 05 23 00-0080	EA		1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	123.14	20.03
			For True Union Socket Or Thread Type, Add	14.48	
			For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0081	EA		2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	147.67	23.68
			For True Union Socket Or Thread Type, Add	17.96	
			For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0082	EA		2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	222.99	31.99
			For True Union Socket Or Thread Type, Add	33.68	
			For Work In Restricted Working Space, Add	47.93	
23 05 23 00-0083	EA		3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	291.85	37.14
			For True Union Socket Or Thread Type, Add	52.68	
			For Work In Restricted Working Space, Add	55.31	
23 05 23 00-0084	EA		4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	415.24	41.94
			For True Union Socket Or Thread Type, Add	93.23	
			For Work In Restricted Working Space, Add	62.91	
23 05 23 00-0085			Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0048)		
23 05 23 00-0086	EA		1/4" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	102.03	19.52
			For Full Port, Add	20.34	
			For Work In Restricted Working Space, Add	17.05	
23 05 23 00-0087	EA		3/8" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	105.02	19.52
			For Full Port, Add	20.34	
			For Work In Restricted Working Space, Add	17.95	
23 05 23 00-0088	EA		1/2" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	108.15	19.52
			For Full Port, Add	20.34	
			For Work In Restricted Working Space, Add	18.89	
23 05 23 00-0089	EA		3/4" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	132.77	21.47
			For Full Port, Add	21.56	
			For Work In Restricted Working Space, Add	25.46	
23 05 23 00-0090	EA		1" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	173.71	24.39
			For Full Port, Add	31.94	
			For Work In Restricted Working Space, Add	30.82	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0091 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	227.27	25.96
For Full Port, Add	43.72	
For Work In Restricted Working Space, Add	39.04	
23 05 23 00-0092 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	279.31	30.05
For Full Port, Add	58.13	
For Work In Restricted Working Space, Add	45.04	
23 05 23 00-0093 EA 2" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	387.65	35.52
For Full Port, Add	94.60	
For Work In Restricted Working Space, Add	53.23	
23 05 23 00-0094 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	749.83	47.99
For Full Port, Add	229.58	
For Work In Restricted Working Space, Add	71.90	
23 05 23 00-0095 EA 3" Threaded Or Sweated, 3-Way, 125 Lb., Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	1,086.66	55.72
For Full Port, Add	364.55	
For Work In Restricted Working Space, Add	82.96	
23 05 23 00-0096 Wye Strainer, Union With Two Pressure Ports, Ball Valves (23 05 23 00-0048)		
23 05 23 00-0097 EA 1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	184.16	13.01
23 05 23 00-0098 EA 3/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	236.39	16.91
23 05 23 00-0099 EA 1" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	304.43	20.82
23 05 23 00-0100 EA 1-1/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	415.10	28.62
23 05 23 00-0101 EA 1-1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	518.74	33.31
23 05 23 00-0102 EA 2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	683.91	39.04
23 05 23 00-0103 Plastic Ball Valves (23 05 23 00-0048)		
Note: Threaded or socket.		
23 05 23 00-0104 Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0105 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	77.20	13.01
23 05 23 00-0106 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	80.62	13.01
23 05 23 00-0107 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	102.40	14.31
23 05 23 00-0108 EA 1" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	132.81	16.27
23 05 23 00-0109 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	158.50	17.31
23 05 23 00-0110 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	191.45	20.03
23 05 23 00-0111 EA 2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	232.83	23.68
23 05 23 00-0112 Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0113 EA 3/8" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	113.70	13.01
23 05 23 00-0114 EA 1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	115.46	13.01
23 05 23 00-0115 EA 3/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	145.53	14.31
23 05 23 00-0116 EA 1" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	179.63	16.27
23 05 23 00-0117 EA 1-1/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	269.21	17.31
23 05 23 00-0118 EA 1-1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	299.14	20.03
23 05 23 00-0119 EA 2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	358.82	23.68
23 05 23 00-0120 Viton Liner And Seals, Polypropylene (PP) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0121 EA 3/8" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	126.14	13.01
23 05 23 00-0122 EA 1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	136.19	13.01
23 05 23 00-0123 EA 3/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	157.14	14.31
23 05 23 00-0124 EA 1" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	192.90	16.27
23 05 23 00-0125 EA 1-1/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	242.67	17.31
23 05 23 00-0126 EA 1-1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	290.84	20.03
23 05 23 00-0127 EA 2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	375.40	23.68
23 05 23 00-0128 Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0129 EA 3/8" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	248.89	13.01
23 05 23 00-0130 EA 1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	265.58	13.01
23 05 23 00-0131 EA 3/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	316.38	14.31
23 05 23 00-0132 EA 1" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	370.39	16.27
23 05 23 00-0133 EA 1-1/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	451.68	17.31
23 05 23 00-0134 EA 1-1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	498.19	20.03
23 05 23 00-0135 EA 2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	574.46	23.68
23 05 23 00-0136 Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valves (23 05 23 00-0103)		
23 05 23 00-0137 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact).....	54.33	13.01



Heating, Ventilating, and Air-Conditioning (HVAC)

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Common Work Results for HVAC 23 05

General-Duty Valves For HVAC Piping 23 05 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0138 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	72.79	14.31
23 05 23 00-0139 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	88.40	16.27
23 05 23 00-0140 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	121.91	17.31
23 05 23 00-0141 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	135.25	20.03
23 05 23 00-0142 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	164.65	23.68
23 05 23 00-0143 Plastic, True Union, Ball Valves (23 05 23 00-0048)		
23 05 23 00-0144 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valves (23 05 23 00-0143) Note: Socket or NPT connectors.		
23 05 23 00-0145 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	122.82	13.01
23 05 23 00-0146 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	127.90	13.01
23 05 23 00-0147 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	155.48	14.31
23 05 23 00-0148 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	191.24	16.27
23 05 23 00-0149 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	231.06	17.31
23 05 23 00-0150 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	265.96	20.03
23 05 23 00-0151 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	325.64	23.68
23 05 23 00-0152 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valves (23 05 23 00-0143) Note: Socket or NPT connectors.		
23 05 23 00-0153 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	124.48	13.01
23 05 23 00-0154 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	144.49	13.01
23 05 23 00-0155 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	157.14	14.31
23 05 23 00-0156 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	191.24	16.27
23 05 23 00-0157 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	227.74	17.31
23 05 23 00-0158 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	264.30	20.03
23 05 23 00-0159 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	325.64	23.68
23 05 23 00-0160 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0143) Note: Socket or NPT connectors.		
23 05 23 00-0161 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	69.84	13.01
23 05 23 00-0162 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	89.96	14.31
23 05 23 00-0163 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	108.30	16.27
23 05 23 00-0164 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	142.31	17.31
23 05 23 00-0165 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	166.43	20.03
23 05 23 00-0166 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	226.11	23.68
23 05 23 00-0167 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	315.70	31.99
23 05 23 00-0168 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	396.68	37.14
23 05 23 00-0169 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	558.05	41.94
23 05 23 00-0170 Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valves (23 05 23 00-0143) Note: Socket or NPT connectors.		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0171 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	81.45	13.01
23 05 23 00-0172 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	106.54	14.31
23 05 23 00-0173 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	131.52	16.27
23 05 23 00-0174 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	182.95	17.31
23 05 23 00-0175 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	201.27	20.03
23 05 23 00-0176 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	257.63	23.68
23 05 23 00-0177 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	441.77	31.99
23 05 23 00-0178 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	516.11	37.14
23 05 23 00-0179 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	790.28	41.94
23 05 23 00-0180 Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0143)		
23 05 23 00-0181 Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0180)		
23 05 23 00-0182 EA 1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	67.33	13.01
23 05 23 00-0183 EA 3/8" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	69.32	13.01
23 05 23 00-0184 EA 1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	71.08	13.01
23 05 23 00-0185 EA 3/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	90.95	14.31
23 05 23 00-0186 EA 1" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	111.43	16.27
23 05 23 00-0187 EA 1-1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	135.34	17.31
23 05 23 00-0188 EA 1-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	162.70	20.03
23 05 23 00-0189 EA 2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	207.87	23.68
23 05 23 00-0190 EA 2-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	381.22	31.99
23 05 23 00-0191 EA 3" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	424.88	37.14
23 05 23 00-0192 EA 4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	583.76	41.94
23 05 23 00-0193 Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0180)		
23 05 23 00-0194 EA 1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	67.33	13.01
23 05 23 00-0195 EA 3/8" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	69.32	13.01
23 05 23 00-0196 EA 1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	71.08	13.01
23 05 23 00-0197 EA 3/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	90.95	14.31
23 05 23 00-0198 EA 1" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	111.43	16.27
23 05 23 00-0199 EA 1-1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	135.34	17.31
23 05 23 00-0200 EA 1-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	162.70	20.03
23 05 23 00-0201 EA 2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	207.87	23.68
23 05 23 00-0202 EA 2-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	381.22	31.99
23 05 23 00-0203 EA 3" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	424.88	37.14
23 05 23 00-0204 EA 4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	583.76	41.94
23 05 23 00-0205 Three Piece Ball Valves (23 05 23 00-0048)		
23 05 23 00-0206 Threaded Or Sweated, Bronze Body, Three Piece Ball Valves (23 05 23 00-0205)		
23 05 23 00-0207 EA 1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	105.96	13.01
For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0208 EA 3/8" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	107.95	13.01
For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0209 EA 1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	120.87	13.01
For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0210 EA 3/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	153.41	14.31
For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0211 EA 1" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	195.65	16.27
For Work In Restricted Working Space, Add	20.54	
23 05 23 00-0212 EA 1-1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	269.55	17.31
For Work In Restricted Working Space, Add	26.03	
23 05 23 00-0213 EA 1-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	336.74	20.03
For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0214 EA 2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	547.08	23.68
For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0215 EA 2-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	1,170.42	33.96
For Work In Restricted Working Space, Add	52.04	
23 05 23 00-0216 Threaded, Carbon Steel Body, Three Piece Ball Valves (23 05 23 00-0205)		
23 05 23 00-0217 EA 1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve	122.39	13.01
For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0218 EA 3/8" Threaded, Carbon Steel Body, Three Piece Ball Valve	133.90	13.01
For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0219 EA 1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve	142.06	13.01
For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0220 EA 3/4" Threaded, Carbon Steel Body, Three Piece Ball Valve	225.81	14.31
For Work In Restricted Working Space, Add	16.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0221	EA		1" Threaded, Carbon Steel Body, Three Piece Ball Valve	288.17	16.27
			For Work In Restricted Working Space, Add	20.54	
23 05 23 00-0222	EA		1-1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve	434.93	17.31
			For Work In Restricted Working Space, Add	26.03	
23 05 23 00-0223	EA		1-1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve	552.53	20.03
			For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0224	EA		2" Threaded, Carbon Steel Body, Three Piece Ball Valve	717.55	23.68
			For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0225 Threaded, Stainless Steel Body, Three Piece Ball Valves (23 05 23 00-0205)					
23 05 23 00-0226	EA		1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve	311.11	13.01
			For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0227	EA		3/8" Threaded, Stainless Steel Body, Three Piece Ball Valve	333.45	13.01
			For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0228	EA		1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve	351.47	13.01
			For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0229	EA		3/4" Threaded, Stainless Steel Body, Three Piece Ball Valve	509.60	14.31
			For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0230	EA		1" Threaded, Stainless Steel Body, Three Piece Ball Valve	621.23	16.27
			For Work In Restricted Working Space, Add	20.54	
23 05 23 00-0231	EA		1-1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve	726.02	17.31
			For Work In Restricted Working Space, Add	26.03	
23 05 23 00-0232	EA		1-1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve	971.07	20.03
			For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0233	EA		2" Threaded, Stainless Steel Body, Three Piece Ball Valve	1,262.98	23.68
			For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0234	EA		3" Threaded, Stainless Steel Body, Three Piece Ball Valve	3,312.86	40.34
			For Work In Restricted Working Space, Add	60.05	
23 05 23 00-0235 Globe Valves (23 05 23)					
23 05 23 00-0236 Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valves (23 05 23 00-0235)					
23 05 23 00-0237	EA		1/8" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve	80.11	13.01
			For 150 Lb. Rating, Add	11.82	
			For 200 Lb. Rating, Add	14.49	
			For 250 Lb. Rating, Add	17.16	
			For 300 Lb. Rating, Add	20.98	
			For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0238	EA		1/4" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve	76.03	13.01
			For 150 Lb. Rating, Add	11.82	
			For 200 Lb. Rating, Add	14.49	
			For 250 Lb. Rating, Add	17.16	
			For 300 Lb. Rating, Add	20.98	
			For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0239	EA		3/8" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve	96.81	13.01
			For 150 Lb. Rating, Add	17.65	
			For 200 Lb. Rating, Add	21.63	
			For 250 Lb. Rating, Add	25.62	
			For 300 Lb. Rating, Add	31.31	
			For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0240	EA		1/2" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve	98.90	13.01
			For 150 Lb. Rating, Add	17.65	
			For 200 Lb. Rating, Add	21.63	
			For 250 Lb. Rating, Add	25.62	
			For 300 Lb. Rating, Add	31.31	
			For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	79.41	
			For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0241	EA		3/4" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve	118.30	13.66
			For 150 Lb. Rating, Add	19.13	
			For 200 Lb. Rating, Add	23.45	
			For 250 Lb. Rating, Add	27.77	
			For 300 Lb. Rating, Add	33.95	
			For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	90.52	
			For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0242	EA		1" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve	151.90	13.66
			For 150 Lb. Rating, Add	25.86	
			For 200 Lb. Rating, Add	31.70	
			For 250 Lb. Rating, Add	37.53	
			For 300 Lb. Rating, Add	45.88	
			For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	119.15	
			For Work In Restricted Working Space, Add	20.55	
23 05 23 00-0243	EA		1-1/4" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve	230.80	17.31
			For 150 Lb. Rating, Add	44.66	
			For 200 Lb. Rating, Add	54.74	
			For 250 Lb. Rating, Add	64.83	
			For 300 Lb. Rating, Add	79.23	
			For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	193.16	
			For Work In Restricted Working Space, Add	26.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0244 EA 1-1/2" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	305.97 63.83 78.24 92.65 113.24 266.51 30.02	20.03
23 05 23 00-0245 EA 2" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For 600 Lb. Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add For Work In Restricted Working Space, Add	360.33 75.03 91.98 108.92 133.12 313.56 35.49	23.68
23 05 23 00-0246 EA 2-1/2" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Work In Restricted Working Space, Add	403.80 75.65 92.73 109.81 134.22 47.93	31.99
23 05 23 00-0247 EA 3" Threaded Or Sweated, 125 Lb., Bronze Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Work In Restricted Working Space, Add	731.07 169.48 207.75 246.02 300.70 55.31	37.14
23 05 23 00-0248 Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0235)		
23 05 23 00-0249 EA 2" Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	543.54 131.83 161.60 191.36 233.89 355.08 35.49	23.68
23 05 23 00-0250 EA 2-1/2" Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	675.22 159.79 195.87 231.95 283.50 430.40 47.93	31.99
23 05 23 00-0251 EA 3" Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	802.89 191.75 235.05 278.34 340.20 516.48 55.31	37.14
23 05 23 00-0252 EA 4" Threaded, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 200 Lb. Rating, Add For 250 Lb. Rating, Add For 300 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,034.36 255.66 313.39 371.12 453.60 688.64 62.89	41.94
23 05 23 00-0253 Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0235)		
23 05 23 00-0254 EA 2" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	737.70 161.46 234.38 260.42 65.06	173.44
23 05 23 00-0255 EA 2-1/2" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	852.81 196.83 285.72 317.47 65.36	173.76
23 05 23 00-0256 EA 3" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,016.88 236.20 342.86 380.96 76.49	203.71
23 05 23 00-0257 EA 4" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,443.86 314.93 457.15 507.95 128.39	341.52
23 05 23 00-0258 EA 5" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve For 150 Lb. Rating, Add For 250 Lb. Rating, Add For Chain Operated Type, Add For Work In Restricted Working Space, Add	1,866.59 437.94 635.72 706.36 136.16	363.65



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0259	EA		6" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve.....	2,292.62	404.06
			For 150 Lb. Rating, Add	553.58	
			For 250 Lb. Rating, Add	803.58	
			For Chain Operated Type, Add	892.87	
			For Work In Restricted Working Space, Add	152.06	
23 05 23 00-0260	EA		8" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve.....	3,387.43	516.30
			For 150 Lb. Rating, Add	851.28	
			For 250 Lb. Rating, Add	1,235.73	
			For Chain Operated Type, Add	1,373.04	
			For Work In Restricted Working Space, Add	192.41	
23 05 23 00-0261	EA		10" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve.....	4,968.26	628.53
			For 150 Lb. Rating, Add	1,296.61	
			For 250 Lb. Rating, Add	1,882.17	
			For Chain Operated Type, Add	2,091.30	
			For Work In Restricted Working Space, Add	235.70	
23 05 23 00-0262	EA		12" Flanged, 125 Lb., Outside Stem And Yoke, Iron Body, Globe Valve.....	8,866.95	763.22
			For 150 Lb. Rating, Add	2,453.53	
			For 250 Lb. Rating, Add	3,561.58	
			For Chain Operated Type, Add	3,957.31	
			For Work In Restricted Working Space, Add	285.70	
23 05 23 00-0263 Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valves (23 05 23 00-0235)					
23 05 23 00-0264	EA		1/8" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	70.86	13.01
			For 150 Lb. Rating, Add	8.96	
			For 200 Lb. Rating, Add	10.98	
			For 300 Lb. Rating, Add	15.89	
			For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0265	EA		1/4" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	66.78	13.01
			For 150 Lb. Rating, Add	8.96	
			For 200 Lb. Rating, Add	10.98	
			For 300 Lb. Rating, Add	15.89	
			For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0266	EA		3/8" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	68.77	13.01
			For 150 Lb. Rating, Add	8.96	
			For 200 Lb. Rating, Add	10.98	
			For 300 Lb. Rating, Add	15.89	
			For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0267	EA		1/2" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	72.79	13.01
			For 150 Lb. Rating, Add	9.55	
			For 200 Lb. Rating, Add	11.71	
			For 300 Lb. Rating, Add	16.95	
			For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0268	EA		3/4" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	99.32	13.66
			For 150 Lb. Rating, Add	13.25	
			For 200 Lb. Rating, Add	16.24	
			For 300 Lb. Rating, Add	23.51	
			For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0269	EA		1" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	124.57	13.66
			For 150 Lb. Rating, Add	17.38	
			For 200 Lb. Rating, Add	21.31	
			For 300 Lb. Rating, Add	30.84	
			For Work In Restricted Working Space, Add	20.55	
23 05 23 00-0270	EA		1-1/4" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	170.05	17.31
			For 150 Lb. Rating, Add	25.83	
			For 200 Lb. Rating, Add	31.66	
			For 300 Lb. Rating, Add	45.82	
			For Work In Restricted Working Space, Add	26.02	
23 05 23 00-0271	EA		1-1/2" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	197.21	20.03
			For 150 Lb. Rating, Add	30.11	
			For 200 Lb. Rating, Add	36.91	
			For 300 Lb. Rating, Add	53.42	
			For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0272	EA		2" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	264.58	23.68
			For 150 Lb. Rating, Add	45.35	
			For 200 Lb. Rating, Add	55.59	
			For 300 Lb. Rating, Add	80.46	
			For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0273	EA		2-1/2" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	437.37	34.74
			For 150 Lb. Rating, Add	81.81	
			For 200 Lb. Rating, Add	100.28	
			For 300 Lb. Rating, Add	145.14	
			For Work In Restricted Working Space, Add	52.04	
23 05 23 00-0274	EA		3" Threaded Or Sweated, 125 Lb., Bronze Body, Angle Globe Valve	647.08	40.34
			For 150 Lb. Rating, Add	138.54	
			For 200 Lb. Rating, Add	169.82	
			For 300 Lb. Rating, Add	245.80	
			For Work In Restricted Working Space, Add	60.05	
23 05 23 00-0275 Flanged, 125 Lb., Iron Body, Angle Globe Valves (23 05 23 00-0235)					
23 05 23 00-0276	EA		2" Flanged, 125 Lb., Iron Body, Angle Globe Valve.....	1,556.89	173.44
			For 250 Lb. Rating, Add	804.02	
			For Chain Operated Type, Add	522.61	
			For Work In Restricted Working Space, Add	65.06	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0277 EA 2-1/2" Flanged, 125 Lb., Iron Body, Angle Globe Valve.....	1,802.70	173.76
For 250 Lb. Rating, Add	950.89	
For Chain Operated Type, Add	618.08	
For Work In Restricted Working Space, Add	65.36	
23 05 23 00-0278 EA 3" Flanged, 125 Lb., Iron Body, Angle Globe Valve.....	2,122.55	203.71
For 250 Lb. Rating, Add	1,120.55	
For Chain Operated Type, Add	728.36	
For Work In Restricted Working Space, Add	76.49	
23 05 23 00-0279 EA 4" Flanged, 125 Lb., Iron Body, Angle Globe Valve.....	3,095.42	341.52
For 250 Lb. Rating, Add	1,600.47	
For Chain Operated Type, Add	1,040.31	
For Work In Restricted Working Space, Add	128.39	
23 05 23 00-0280 EA 5" Flanged, 125 Lb., Iron Body, Angle Globe Valve.....	5,234.45	363.65
For 250 Lb. Rating, Add	2,868.35	
For Chain Operated Type, Add	1,864.43	
For Work In Restricted Working Space, Add	136.16	
23 05 23 00-0281 EA 6" Flanged, 125 Lb., Iron Body, Angle Globe Valve.....	5,287.46	404.06
For 250 Lb. Rating, Add	2,868.35	
For Chain Operated Type, Add	1,864.43	
For Work In Restricted Working Space, Add	152.06	
23 05 23 00-0282 EA 8" Flanged, 125 Lb., Iron Body, Angle Globe Valve.....	9,997.90	516.30
For 250 Lb. Rating, Add	5,613.92	
For Chain Operated Type, Add	3,649.05	
For Work In Restricted Working Space, Add	192.41	
23 05 23 00-0283 Plug Valves (23 05 23)		
23 05 23 00-0284 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0283)		
Note: Includes wrench.		
23 05 23 00-0285 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	312.30	13.01
23 05 23 00-0286 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	326.91	14.31
23 05 23 00-0287 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	413.29	16.27
23 05 23 00-0288 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	494.99	17.31
23 05 23 00-0289 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	544.19	20.03
23 05 23 00-0290 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	642.39	23.68
23 05 23 00-0291 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	962.47	31.99
23 05 23 00-0292 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,177.38	37.14
23 05 23 00-0293 Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0283)		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0294 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	773.05	173.44
23 05 23 00-0295 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	950.52	173.76
23 05 23 00-0296 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,175.55	203.71
23 05 23 00-0297 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,674.61	341.52
23 05 23 00-0298 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	3,832.52	404.06
23 05 23 00-0299 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	6,632.88	516.30
23 05 23 00-0300 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	10,770.25	628.53
23 05 23 00-0301 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	16,107.58	763.22
23 05 23 00-0302 Plug Valves, Forged Steel, Screwed (23 05 23 00-0283)		
23 05 23 00-0303 EA 1/2" Plug Valve, 1,500 Lb., Forged Steel, Screwed.....	1,198.25	13.01
23 05 23 00-0304 EA 3/4" Plug Valve, 1,500 Lb., Forged Steel, Screwed.....	1,416.03	14.31
23 05 23 00-0305 EA 1" Plug Valve, 1,500 Lb., Forged Steel, Screwed.....	1,601.00	16.27
23 05 23 00-0306 EA 1-1/4" Plug Valve, 1,500 Lb., Forged Steel, Screwed.....	1,921.07	17.31
23 05 23 00-0307 EA 1-1/2" Plug Valve, 1,500 Lb., Forged Steel, Screwed.....	2,237.07	20.03
23 05 23 00-0308 EA 2" Plug Valve, 1,500 Lb., Forged Steel, Screwed.....	2,942.53	23.68
23 05 23 00-0309 Plug Valves, Eccentric, Cast Iron Flanged (23 05 23 00-0283)		
23 05 23 00-0310 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,239.97	341.52
23 05 23 00-0311 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,899.25	404.06
23 05 23 00-0312 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,582.18	516.30
23 05 23 00-0313 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,658.28	628.53
23 05 23 00-0314 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	4,722.13	763.22
23 05 23 00-0315 Eccentric Valves With Taps (23 05 23)		
23 05 23 00-0316 Screwed Eccentric Valves With Taps (23 05 23 00-0315)		
23 05 23 00-0317 EA 1/2" Diameter Eccentric Valves With Taps, Screwed.....	315.33	13.01
23 05 23 00-0318 EA 3/4" Diameter Eccentric Valves With Taps, Screwed.....	334.15	14.31
23 05 23 00-0319 EA 1" Diameter Eccentric Valves With Taps, Screwed.....	421.76	16.27
23 05 23 00-0320 EA 1-1/4" Diameter Eccentric Valves With Taps, Screwed.....	511.51	17.31
23 05 23 00-0321 EA 1-1/2" Diameter Eccentric Valves With Taps, Screwed.....	558.49	20.03
23 05 23 00-0322 EA 2" Diameter Eccentric Valves With Taps, Screwed.....	656.61	23.68
23 05 23 00-0323 EA 2-1/2" Diameter Eccentric Valves With Taps, Screwed.....	992.48	31.99
23 05 23 00-0324 EA 3" Diameter Eccentric Valves With Taps, Screwed.....	1,206.31	37.14



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0325			Flanged Eccentric Valves With Taps (23 05 23 00-0315)		
23 05 23 00-0326	EA		2-1/2" Diameter Eccentric Valves With Taps, Flanged	1,206.20	173.76
23 05 23 00-0327	EA		3" Diameter Eccentric Valves With Taps, Flanged.....	1,432.53	203.71
23 05 23 00-0328	EA		4" Diameter Eccentric Valves With Taps, Flanged.....	1,920.96	341.52
23 05 23 00-0329	EA		5" Diameter Eccentric Valves With Taps, Flanged.....	2,556.67	363.65
23 05 23 00-0330	EA		6" Diameter Eccentric Valves With Taps, Flanged.....	3,240.52	404.06
23 05 23 00-0331	EA		8" Diameter Eccentric Valves With Taps, Flanged.....	5,582.94	516.30
23 05 23 00-0332	EA		10" Diameter Eccentric Valves With Taps, Flanged.....	7,830.04	628.53
23 05 23 00-0333	EA		12" Diameter Eccentric Valves With Taps, Flanged.....	13,463.99	763.22
23 05 23 00-0334			Check Valves (23 05 23)		
23 05 23 00-0335			Iron Body Wafer Type Check Valve (23 05 23 00-0334)		
23 05 23 00-0336			Single Disk Type (23 05 23 00-0335)		
23 05 23 00-0337	EA		2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 Lb.....	500.48	173.54
			For 150 Lb. Rating, Add	59.54	
			For 200 Lb. Rating, Add	70.88	
			For 300 Lb. Rating, Add	85.05	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	170.97	
23 05 23 00-0338	EA		2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 Lb.....	589.48	173.88
			For 150 Lb. Rating, Add	78.00	
			For 200 Lb. Rating, Add	92.86	
			For 300 Lb. Rating, Add	111.43	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	210.76	
23 05 23 00-0339	EA		3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 Lb.....	724.65	203.86
			For 150 Lb. Rating, Add	98.60	
			For 200 Lb. Rating, Add	117.38	
			For 300 Lb. Rating, Add	140.85	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	262.31	
23 05 23 00-0340	EA		4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 Lb.....	1,064.18	341.77
			For 150 Lb. Rating, Add	133.54	
			For 200 Lb. Rating, Add	158.98	
			For 300 Lb. Rating, Add	190.77	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	371.81	
23 05 23 00-0341	EA		6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 Lb.....	1,595.63	479.67
			For 150 Lb. Rating, Add	209.17	
			For 200 Lb. Rating, Add	249.01	
			For 300 Lb. Rating, Add	298.81	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	568.14	
23 05 23 00-0342	EA		8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 Lb.....	2,215.58	551.63
			For 150 Lb. Rating, Add	320.99	
			For 200 Lb. Rating, Add	382.14	
			For 300 Lb. Rating, Add	458.56	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	825.25	
23 05 23 00-0343	EA		10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 Lb.....	3,286.96	671.55
			For 150 Lb. Rating, Add	512.69	
			For 200 Lb. Rating, Add	610.35	
			For 300 Lb. Rating, Add	732.41	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	1,267.74	
23 05 23 00-0344			Twin Disc Type (23 05 23 00-0335)		
23 05 23 00-0345	EA		2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	695.62	173.54
			For 150 Lb. Rating, Add	100.51	
			For 200 Lb. Rating, Add	119.66	
			For 300 Lb. Rating, Add	143.59	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	258.78	
23 05 23 00-0346	EA		2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	792.47	173.88
			For 150 Lb. Rating, Add	120.63	
			For 200 Lb. Rating, Add	143.61	
			For 300 Lb. Rating, Add	172.33	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	302.10	
23 05 23 00-0347	EA		3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	925.37	203.86
			For 150 Lb. Rating, Add	140.75	
			For 200 Lb. Rating, Add	167.56	
			For 300 Lb. Rating, Add	201.07	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	352.63	
23 05 23 00-0348	EA		4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	1,279.41	341.77
			For 150 Lb. Rating, Add	178.74	
			For 200 Lb. Rating, Add	212.78	
			For 300 Lb. Rating, Add	255.34	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	468.66	
23 05 23 00-0349	EA		6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	1,972.07	479.67
			For 150 Lb. Rating, Add	288.22	
			For 200 Lb. Rating, Add	343.12	
			For 300 Lb. Rating, Add	411.74	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	737.53	
23 05 23 00-0350	EA		8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	2,781.26	551.63
			For 150 Lb. Rating, Add	440.16	
			For 200 Lb. Rating, Add	524.00	
			For 300 Lb. Rating, Add	628.80	
			For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	1,080.25	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0351 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	4,159.21	659.55
For 150 Lb. Rating, Add	697.08	
For 200 Lb. Rating, Add	829.86	
For 300 Lb. Rating, Add	995.83	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	1,661.70	
23 05 23 00-0352 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 Lb.	5,463.58	815.44
For 150 Lb. Rating, Add	933.94	
For 200 Lb. Rating, Add	1,111.83	
For 300 Lb. Rating, Add	1,334.20	
For 300 Lb. Rating, Cast Steel, Weld End, Wedge, Add	2,204.55	
23 05 23 00-0353 Lift Check Valves (23 05 23 00-0334)		
23 05 23 00-0354 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0353)		
Note: Watts #600 series.		
23 05 23 00-0355 EA 3/8" Lift Check Valve, Bronze, Threaded	129.41	13.01
23 05 23 00-0356 EA 1/2" Lift Check Valve, Bronze, Threaded	136.92	13.01
23 05 23 00-0357 EA 3/4" Lift Check Valve, Bronze, Threaded	174.83	13.66
23 05 23 00-0358 EA 1" Lift Check Valve, Bronze, Threaded	229.88	13.66
23 05 23 00-0359 EA 1-1/4" Lift Check Valve, Bronze, Threaded	318.07	17.31
23 05 23 00-0360 EA 1-1/2" Lift Check Valve, Bronze, Threaded	386.51	20.03
23 05 23 00-0361 EA 2" Lift Check Valve, Bronze, Threaded	548.96	23.68
23 05 23 00-0362 Bronze Body, Threaded, 300 Lb., Lift Check Valves (23 05 23 00-0353)		
Note: Crane 366E.		
23 05 23 00-0363 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 Lb.	785.64	13.01
23 05 23 00-0364 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 Lb.	954.76	13.66
23 05 23 00-0365 EA 1" Lift Check Valve, Bronze, Threaded, 300 Lb.	1,710.38	13.66
23 05 23 00-0366 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 Lb.	2,279.14	17.31
23 05 23 00-0367 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 Lb.	2,476.00	20.03
23 05 23 00-0368 EA 2" Lift Check Valve, Bronze, Threaded, 300 Lb.	3,179.88	23.68
23 05 23 00-0369 Iron Body, Flanged, 125 Lb. Vertical Lift Check Valves (23 05 23 00-0353)		
Note: Mueller 105MAP.		
23 05 23 00-0370 EA 2" Lift Check Valve, Iron Body, Flanged, 125 Lb.	1,159.58	173.44
23 05 23 00-0371 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 Lb.	2,142.53	173.76
23 05 23 00-0372 EA 3" Lift Check Valve, Iron Body, Flanged, 125 Lb.	2,330.18	203.71
23 05 23 00-0373 EA 4" Lift Check Valve, Iron Body, Flanged, 125 Lb.	3,216.75	341.52
23 05 23 00-0374 EA 5" Lift Check Valve, Iron Body, Flanged, 125 Lb.	4,041.31	363.65
23 05 23 00-0375 EA 6" Lift Check Valve, Iron Body, Flanged, 125 Lb.	5,001.01	404.06
23 05 23 00-0376 EA 8" Lift Check Valve, Iron Body, Flanged, 125 Lb.	8,866.95	516.30
23 05 23 00-0377 EA 10" Lift Check Valve, Iron Body, Flanged, 125 Lb.	11,142.12	628.53
23 05 23 00-0378 EA 12" Lift Check Valve, Iron Body, Flanged, 125 Lb.	18,182.54	763.22
23 05 23 00-0379 Bronze Body Swing Check Valves (23 05 23 00-0334)		
23 05 23 00-0380 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 Lb., Swing Check Valves (23 05 23 00-0379)		
23 05 23 00-0381 EA 1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	88.97	13.01
For 300 Lb. Rating, Add	18.33	
For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0382 EA 1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	84.89	13.01
For 300 Lb. Rating, Add	18.33	
For Work In Restricted Working Space, Add	11.37	
23 05 23 00-0383 EA 3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	86.88	13.01
For 300 Lb. Rating, Add	18.33	
For Work In Restricted Working Space, Add	11.96	
23 05 23 00-0384 EA 1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	90.81	13.01
For 300 Lb. Rating, Add	19.05	
For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0385 EA 3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	115.76	13.66
For 300 Lb. Rating, Add	23.08	
For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0386 EA 1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	148.85	13.66
For 300 Lb. Rating, Add	31.34	
For Work In Restricted Working Space, Add	20.55	
23 05 23 00-0387 EA 1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	199.54	17.31
For 300 Lb. Rating, Add	43.99	
For Work In Restricted Working Space, Add	26.02	
23 05 23 00-0388 EA 1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	258.05	20.03
For 300 Lb. Rating, Add	61.61	
For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0389 EA 2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	321.38	23.68
For 300 Lb. Rating, Add	79.21	
For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0390 EA 2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb.	626.64	31.99
For 300 Lb. Rating, Add	182.08	
For Work In Restricted Working Space, Add	47.93	

**Heating, Ventilating, and Air-Conditioning (HVAC)****23**

Common Work Results for HVAC 23 05

General-Duty Valves For HVAC Piping 23 05 23

23

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
23 05 23 00-0391	EA 3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb..... <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		848.36 258.96 55.31	37.14	
23 05 23 00-0392	EA 4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 Lb..... <i>For 300 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		961.10 293.05 62.91	41.94	
23 05 23 00-0393 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0394)					
23 05 23 00-0394	EA 1" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		671.45 373.12 713.31 36.83	97.58	
23 05 23 00-0395	EA 1-1/4" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		745.94 411.07 785.86 42.43	113.85	
23 05 23 00-0396	EA 1-1/2" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		826.85 445.84 852.35 51.36	136.62	
23 05 23 00-0397	EA 2" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		1,031.17 553.73 1,058.60 65.06	173.44	
23 05 23 00-0398	EA 2-1/2" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		1,168.24 646.24 1,235.47 65.36	173.76	
23 05 23 00-0399	EA 3" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		1,287.71 702.27 1,342.58 76.49	203.71	
23 05 23 00-0400	EA 4" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		2,024.02 1,085.31 2,074.87 128.39	341.52	
23 05 23 00-0401	EA 5" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		2,797.19 1,593.46 3,046.32 136.16	363.65	
23 05 23 00-0402	EA 6" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		3,223.85 1,847.54 3,532.06 152.06	404.06	
23 05 23 00-0403	EA 8" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		7,424.64 4,612.63 8,818.26 192.41	516.30	
23 05 23 00-0404	EA 10" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		10,019.15 6,278.77 12,003.54 235.70	628.53	
23 05 23 00-0405	EA 12" 125 Lb. Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 Lb. Rating, Add</i> <i>For 250 Lb. Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>		15,351.51 9,791.44 18,718.93 285.70	763.22	
23 05 23 00-0406	Plastic Check Valve (23 05 23 00-0334)				
23 05 23 00-0407	Polyvinyl Chloride (PVC) Check Valve (23 05 23 00-0406)				
23 05 23 00-0408	Polyvinyl Chloride (PVC) "Y" Check Valve (23 05 23 00-0407)				
23 05 23 00-0409	EA 1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		99.99	13.01	
23 05 23 00-0410	EA 3/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		118.88	14.31	
23 05 23 00-0411	EA 1" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		136.87	16.27	
23 05 23 00-0412	EA 1-1/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		194.23	17.31	
23 05 23 00-0413	EA 1-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		216.53	20.03	
23 05 23 00-0414	EA 2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		363.19	21.81	
23 05 23 00-0415	EA 2-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		447.41	31.99	
23 05 23 00-0416	EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		490.90	37.14	
23 05 23 00-0417	EA 4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket		711.32	41.94	
23 05 23 00-0418	EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Flanged		684.92	203.71	
23 05 23 00-0419	Polyvinyl Chloride (PVC) True Union Ball Check Valve (23 05 23 00-0407)				
23 05 23 00-0420	Valves (23 05 23 00-0419)				
23 05 23 00-0421	EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....		76.80	13.01	
23 05 23 00-0422	EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....		96.39	14.31	
23 05 23 00-0423	EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....		118.25	16.27	
23 05 23 00-0424	EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve		153.09	17.31	
23 05 23 00-0425	EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve		179.70	20.03	
23 05 23 00-0426	EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....		262.61	23.68	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0427	EA	3" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	426.84	31.99
23 05 23 00-0428	EA	4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	720.14	37.14
23 05 23 00-0429		Foot Valve Screen (23 05 23 00-0419)		
		Note: For use with PVC true union ball check valves above.		
23 05 23 00-0430	EA	1/2" Foot Valve Screen Option.....	61.97	
23 05 23 00-0431	EA	3/4" Foot Valve Screen Option.....	74.11	
23 05 23 00-0432	EA	1" Foot Valve Screen Option.....	85.88	
23 05 23 00-0433	EA	1-1/4" Foot Valve Screen Option	129.65	
23 05 23 00-0434	EA	1-1/2" Foot Valve Screen Option	143.44	
23 05 23 00-0435	EA	2" Foot Valve Screen Option.....	155.21	
23 05 23 00-0436	EA	2-1/2" Foot Valve Screen Option	185.18	
23 05 23 00-0437	EA	3" Foot Valve Screen Option.....	215.16	
23 05 23 00-0438	EA	4" Foot Valve Screen Option.....	261.13	
23 05 23 00-0439		Hayward "True Check" With VITON Seals (23 05 23 00-0419)		
23 05 23 00-0440	EA	1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	69.41	13.01
23 05 23 00-0441	EA	3/8" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	71.40	13.01
23 05 23 00-0442	EA	1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	77.63	13.01
23 05 23 00-0443	EA	3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	96.31	14.31
23 05 23 00-0444	EA	1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	119.42	16.27
23 05 23 00-0445	EA	1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	153.01	17.31
23 05 23 00-0446	EA	1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	184.68	20.03
23 05 23 00-0447	EA	2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	231.09	23.68
23 05 23 00-0448	EA	2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	421.86	31.99
23 05 23 00-0449	EA	3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	463.03	37.14
23 05 23 00-0450	EA	4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	724.76	41.94
23 05 23 00-0451		Hayward "True Check" With Ethylene Propylene Diene Monomer (EPDM) Seals (23 05 23 00-0419)		
23 05 23 00-0452	EA	1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	73.49	13.01
23 05 23 00-0453	EA	3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	92.24	14.31
23 05 23 00-0454	EA	1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	113.78	16.27
23 05 23 00-0455	EA	1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	146.87	17.31
23 05 23 00-0456	EA	1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	173.40	20.03
23 05 23 00-0457	EA	2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	221.14	23.68
23 05 23 00-0458	EA	2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	406.93	31.99
23 05 23 00-0459	EA	3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	450.59	37.14
23 05 23 00-0460	EA	4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded.....	705.68	41.94
23 05 23 00-0461		Polyvinyl Chloride (PVC) Check Valve, Ethylene Propylene Diene Monomer (EPDM) Housing, Flanged (23 05 23 00-0407)		
23 05 23 00-0462	EA	1" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	355.70	78.07
23 05 23 00-0463	EA	1-1/4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	387.98	91.08
23 05 23 00-0464	EA	1-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	427.46	113.85
23 05 23 00-0465	EA	2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	521.81	143.13
23 05 23 00-0466	EA	2-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	625.84	143.90
23 05 23 00-0467	EA	3" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	851.92	167.88
23 05 23 00-0468	EA	4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	1,182.35	284.81
23 05 23 00-0469	EA	6" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	1,944.45	479.67
23 05 23 00-0470		Swing Check Valves, 150 Lb. Polyvinyl Chloride (PVC) Socket Weld End Connections (23 05 23 00-0406)		
23 05 23 00-0471	EA	1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb.	67.71	13.01
		For Work In Restricted Working Space, Add	12.59	
23 05 23 00-0472	EA	3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb.	82.32	14.31
		For Work In Restricted Working Space, Add	16.97	
23 05 23 00-0473	EA	1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb.	95.25	16.27
		For Work In Restricted Working Space, Add	20.55	
23 05 23 00-0474	EA	1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb.	114.60	17.31
		For Work In Restricted Working Space, Add	26.02	
23 05 23 00-0475	EA	1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb.	129.56	20.03
		For Work In Restricted Working Space, Add	30.02	
23 05 23 00-0476	EA	2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb.	164.12	23.68
		For Work In Restricted Working Space, Add	35.49	
23 05 23 00-0477	EA	2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb.	225.02	31.99
		For Work In Restricted Working Space, Add	47.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0478	EA		3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 Lb. <i>For Work In Restricted Working Space, Add</i>	269.02 55.31	37.14
23 05 23 00-0479			Polyvinyl Chloride (PVC) Body, Swing Check Valves (23 05 23 00-0406)		
23 05 23 00-0480			Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals (23 05 23 00-0479)		
23 05 23 00-0481	EA		3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	676.79 64.19	167.76
23 05 23 00-0482	EA		4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	869.99 105.73	284.60
23 05 23 00-0483	EA		6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	1,372.84 138.65	336.71
23 05 23 00-0484	EA		8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals <i>For Work In Restricted Working Space, Add</i>	1,825.61 157.13	426.50
23 05 23 00-0485			Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals (23 05 23 00-0479)		
23 05 23 00-0486	EA		3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	796.22 64.19	167.76
23 05 23 00-0487	EA		4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	1,133.73 105.73	284.60
23 05 23 00-0488	EA		6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	1,622.66 138.65	336.71
23 05 23 00-0489	EA		8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	2,124.19 157.13	426.50
23 05 23 00-0490			Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter Weights (23 05 23 00-0479)		
23 05 23 00-0491	EA		3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights..... <i>For Work In Restricted Working Space, Add</i>	827.74 64.19	167.76
23 05 23 00-0492	EA		4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights..... <i>For Work In Restricted Working Space, Add</i>	1,136.22 105.73	284.60
23 05 23 00-0493	EA		6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights..... <i>For Work In Restricted Working Space, Add</i>	1,512.18 138.65	336.71
23 05 23 00-0494	EA		8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights..... <i>For Work In Restricted Working Space, Add</i>	1,940.40 157.13	426.50
23 05 23 00-0495			Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals And Counter Weights (23 05 23 00-0479)		
23 05 23 00-0496	EA		3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	927.26 64.19	167.76
23 05 23 00-0497	EA		4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	1,281.37 105.73	284.60
23 05 23 00-0498	EA		6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	1,719.53 138.65	336.71
23 05 23 00-0499	EA		8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	2,189.22 157.13	426.50
23 05 23 00-0500			Butterfly Valves (23 05 23)		
23 05 23 00-0501			Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves (23 05 23 00-0500) Note: With on-off handle		
23 05 23 00-0502	EA		2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	533.54 152.01 65.06	173.44
23 05 23 00-0503	EA		2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	552.98 160.85 65.36	173.76
23 05 23 00-0504	EA		3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	615.83 173.22 76.49	203.71
23 05 23 00-0505	EA		4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	880.90 217.41 128.39	341.52
23 05 23 00-0506	EA		5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,151.29 309.32 152.06	404.06
23 05 23 00-0507	EA		6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,349.22 378.25 168.36	448.95
23 05 23 00-0508	EA		8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,827.08 569.15 192.41	516.30

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0509 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,083.46 1,102.94 235.70	628.53
23 05 23 00-0510 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type..... <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,879.81 1,405.19 285.70	763.22
23 05 23 00-0511 Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valves (23 05 23 00-0500)		
23 05 23 00-0512 EA 2" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,085.90 65.06	173.44
23 05 23 00-0513 EA 2-1/2" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,094.28 65.36	173.76
23 05 23 00-0514 EA 3" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,175.55 76.49	203.71
23 05 23 00-0515 EA 4" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,466.40 128.39	341.52
23 05 23 00-0516 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI..... <i>For Work In Restricted Working Space, Add</i>	1,799.39 152.06	404.06
23 05 23 00-0517 EA 6" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,993.43 168.36	448.95
23 05 23 00-0518 EA 8" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	2,497.27 192.41	516.30
23 05 23 00-0519 EA 10" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	3,182.88 235.70	628.53
23 05 23 00-0520 EA 12" Cast Iron Body, Bronze Disc, Gear Operated, 200 Lb., Lug Type, Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	4,435.85 285.70	763.22

END OF SECTION 23



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Medium-Voltage Electrical Distribution		26 01 10

26

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical

Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001 Retrofit Distribution Enclosures ^(26 01 10 91)

Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.

26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	494.75
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	103.73
		For >20 To 50, Add	82.98
		For >50 To 100, Add	41.49
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	643.46
		Note: 2mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	140.91
		For >20 To 50, Add	112.72
		For >50 To 100, Add	56.36
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	970.62
		Note: 4mm thick, aluminum frame, hinged cover.	
		For Up To 20, Add	222.70
		For >20 To 50, Add	178.16
		For >50 To 100, Add	89.08
26 01 10 91-0005	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	493.12
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	103.32
		For >20 To 50, Add	82.66
		For >50 To 100, Add	41.33
26 01 10 91-0006	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	631.35
		Note: 2mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	137.88
		For >20 To 50, Add	110.30
		For >50 To 100, Add	55.15
26 01 10 91-0007	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	943.73
		Note: 4mm thick, aluminum frame, twist cover.	
		For Up To 20, Add	215.97
		For >20 To 50, Add	172.78
		For >50 To 100, Add	86.39
26 01 10 91-0008	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	387.67
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	76.96
		For >20 To 50, Add	61.57
		For >50 To 100, Add	30.78
26 01 10 91-0009	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	548.28
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	117.11
		For >20 To 50, Add	93.69
		For >50 To 100, Add	46.84
26 01 10 91-0010	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPFR)	782.50
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		For Up To 20, Add	175.67
		For >20 To 50, Add	140.53
		For >50 To 100, Add	70.27
26 01 10 91-0011	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	713.01
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	158.29
		For >20 To 50, Add	126.63
		For >50 To 100, Add	63.32
26 01 10 91-0012	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	981.72
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	225.47
		For >20 To 50, Add	180.38
		For >50 To 100, Add	90.19
26 01 10 91-0013	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,802.44
		Note: 4mm thick, aluminum frame, magnetic cover.	
		For Up To 20, Add	430.65
		For >20 To 50, Add	344.52
		For >50 To 100, Add	172.26

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	819.81	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	184.99	
For >20 To 50, Add	147.99	
For >50 To 100, Add	74.00	
26 01 10 91-0015 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	1,208.89	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	282.26	
For >20 To 50, Add	225.81	
For >50 To 100, Add	112.91	

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001	Lock Out/Tag Out Devices (26 01 20 91)	
	Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.	
26 01 20 91-0002 EA	Lock Out/Tag Out Local Disconnect.....	46.83
	Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0003 EA	Lock Out/Tag Out Breaker Or Motor Starter.....	46.83
	Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0004 EA	Lock Out Padlock Device.....	13.01
	Note: Includes the installation and removal of pad lock when required	
26 01 20 91-0005 EA	Lock Out Tags.....	5.33
	Note: Includes filling out tag information, installation and removal of identifying tags.	
26 01 20 91-0006	Existing Circuit Tracing (26 01 20 91)	
26 01 20 91-0007 EA	Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....	27.04
26 01 20 91-0008 EA	Lighting, Existing Circuit Tracing Per Circuit.....	27.04

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment (26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration (26 01 30)

26 01 30 91-0001	Emergency Generator Permits (26 01 30 91)	
26 01 30 91-0002	Air Pollution Control Board (26 01 30 91-0001)	
26 01 30 91-0003 EA	APCD Permit To Construct And Operate Emergency Generator.....	5,052.51

26 01 50 Operation and Maintenance of Lighting (26 01)

26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001	Replace Lamps In Existing Fixtures (26 01 50 51)	
	Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps.	
26 01 50 51-0002	Halogen Lamps (26 01 50 51-0001)	
26 01 50 51-0003 EA	300 Watt, T3, Tungsten Halogen Lamp.....	58.71
26 01 50 51-0004 EA	500 Watt, T3, Tungsten Halogen Lamp.....	75.84
26 01 50 51-0005 EA	1,000 Watt, T3, Tungsten Halogen Lamp.....	113.44
26 01 50 51-0006 EA	90 Watt, PAR38, Halogen Lamp.....	27.12
26 01 50 51-0007 EA	100 Watt, PAR38, Halogen Lamp.....	27.12
26 01 50 51-0008 EA	60 Watt, PAR38, Halogen IR Reflective Lamp.....	38.82
26 01 50 51-0009 EA	67 Watt, PAR38, Halogen IR Reflective Lamp.....	42.62
26 01 50 51-0010 EA	70 Watt, PAR38, Halogen IR Reflective Lamp.....	41.64
26 01 50 51-0011 EA	90 Watt, PAR38, Halogen IR Reflective Lamp.....	44.55
26 01 50 51-0012 EA	100 Watt, PAR38, Halogen IR Reflective Lamp.....	45.17
26 01 50 51-0013 EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10).....	24.65
26 01 50 51-0014 EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20).....	24.65
26 01 50 51-0015 EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25).....	27.01
26 01 50 51-0016 EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36).....	27.01
26 01 50 51-0017	Incandescent Lamps (26 01 50 51-0001)	
26 01 50 51-0018 EA	100 Watt, Frosted, Interior Incandescent Lamp.....	7.47
	For Removal Of Multiple Lamps In A Fixture, Deduct	-2.15
26 01 50 51-0019 EA	150 Watt, Frosted, Interior Incandescent Lamp.....	9.40
	For Removal Of Multiple Lamps In A Fixture, Deduct	-2.15
26 01 50 51-0020 EA	200 Watt, Frosted, Interior Incandescent Lamp.....	11.57
	For Removal Of Multiple Lamps In A Fixture, Deduct	-2.15
26 01 50 51-0021 EA	300 Watt, PS25, Interior Incandescent Lamp.....	14.31
	For Removal Of Multiple Lamps In A Fixture, Deduct	-2.15



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0022	EA	60 Watt, G25, Clear, Interior Incandescent Lamp.....	10.62	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.15	
26 01 50 51-0023	EA	75 Watt, R20, Interior Incandescent Lamp.....	16.97	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.58	
26 01 50 51-0024	EA	75 Watt, PAR38, Exterior Incandescent Lamp.....	20.80	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.58	
26 01 50 51-0025	EA	100 Watt, PAR38, Exterior Incandescent Lamp.....	19.28	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.58	
26 01 50 51-0026	EA	150 Watt, PAR38, Exterior Incandescent Lamp.....	33.79	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-2.58	
26 01 50 51-0027	EA	250 Watt, PAR38, Exterior Incandescent Lamp.....	70.26	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.02	
26 01 50 51-0028	EA	300 Watt, PAR56, Exterior Incandescent Lamp.....	80.92	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.02	
26 01 50 51-0029 Exit Light Lamps (26 01 50 51-0001)				
26 01 50 51-0030	EA	Convert Exit Light Lamps To Red LED Lamps.....	125.34	
		<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0031	EA	Fluorescent Lamp For Exit Light.....	35.71	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-8.62	
26 01 50 51-0032	EA	Lamp Replacement For Emergency Lights On Exit Sign.....	47.80	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-4.31	
26 01 50 51-0033 Fluorescent Lamps (26 01 50 51-0001)				
26 01 50 51-0034	EA	18", 15 Watt, T8 Fluorescent Lamp.....	13.60	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0035	EA	2', 17 Watt, T8 Fluorescent Lamp.....	16.33	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0036	EA	3', 25 Watt, T8 Fluorescent Lamp.....	18.75	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0037	EA	4', 32 Watt, T8 Fluorescent Lamp.....	18.66	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0038	EA	4', 30 Watt, T8 Fluorescent Lamp.....	23.46	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0039	EA	4', 28 Watt, T8 Fluorescent Lamp.....	20.59	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0040	EA	4', 25 Watt, T8 Fluorescent Lamp.....	20.48	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0041	EA	4', 44 Watt, T8HO Fluorescent Lamp.....	32.82	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0042	EA	8', 59 Watt, T8 Fluorescent Lamp.....	25.07	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0043	EA	18", 15 Watt, T12 Fluorescent Lamp.....	20.48	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0044	EA	2', 20 Watt, T12 Fluorescent Lamp.....	15.55	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0045	EA	3', 30 Watt, T12 Fluorescent Lamp.....	17.45	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0046	EA	4', 34 Watt, T12 Fluorescent Lamp.....	17.54	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0047	EA	4', 40 Watt, T12 Fluorescent Lamp.....	17.18	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0048	EA	8', 60 Watt, T12 Fluorescent Lamp.....	25.70	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0049	EA	8', 75 Watt, T12 Fluorescent Lamp.....	21.73	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0050	EA	8', 95 Watt, Instant Start T12 Fluorescent Lamp.....	37.01	
26 01 50 51-0051	EA	6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp.....	20.72	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0052	EA	8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp.....	17.07	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0053	EA	12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp.....	16.51	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0054	EA	16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp.....	18.26	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0055	EA	6", 4 Watt, T5 Fluorescent Lamp.....	15.08	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0056	EA	9", 6 Watt, T5 Fluorescent Lamp.....	14.83	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0057	EA	12", 8 Watt, T5 Fluorescent Lamp.....	15.30	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0058	EA	21", 13 Watt, T5 Fluorescent Lamp.....	16.00	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0059	EA	24", 14 Watt, T5 Fluorescent Lamp.....	18.42	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.45	
26 01 50 51-0060	EA	34", 21 Watt, T5 Fluorescent Lamp.....	20.03	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0061	EA	46", 28 Watt, T5 Fluorescent Lamp.....	19.40	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0062	EA	46", 54 Watt, T5HO Fluorescent Lamp.....	21.22	
		<i>For Removal Of Multiple Lamps In A Fixture, Deduct</i>	-3.87	
26 01 50 51-0063	EA	46", 54 Watt T5 Fluorescent Lamp.....	19.33	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0064 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp.....	30.13	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.31	
26 01 50 51-0065 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp.....	29.06	
For Removal Of Multiple Lamps In A Fixture, Deduct	-4.31	
26 01 50 51-0066 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp	26.99	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.15	
26 01 50 51-0067 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp	11.91	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.15	
26 01 50 51-0068 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp	13.16	
For Removal Of Multiple Lamps In A Fixture, Deduct	-2.15	
26 01 50 51-0069 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux	35.21	
26 01 50 51-0070 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux	35.21	
26 01 50 51-0071 EA 32 Watt 2D (DoubleD) Fluorescent Lamp	66.24	
26 01 50 51-0072 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp	24.06	
26 01 50 51-0073 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps	12.37	
26 01 50 51-0074 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps	10.68	
26 01 50 51-0075 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps	11.21	
26 01 50 51-0076 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps	46.13	
26 01 50 51-0077 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps	50.32	
26 01 50 51-0078 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps	95.82	
26 01 50 51-0079 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	114.77	
26 01 50 51-0080 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps.....	118.63	
26 01 50 51-0081 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps	43.03	
26 01 50 51-0082 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps	44.88	
26 01 50 51-0083 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps	51.83	
26 01 50 51-0084 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0085 EA 50 Watt, Pulse Start Metal Halide Lamp	52.06	
26 01 50 51-0086 EA 70 Watt, Pulse Start Metal Halide Lamp	49.83	
26 01 50 51-0087 EA 100 Watt, Pulse Start Metal Halide Lamp	56.89	
26 01 50 51-0088 EA 150 Watt, Pulse Start Metal Halide Lamp	55.29	
26 01 50 51-0089 EA 175 Watt, Pulse Start Metal Halide Lamp	54.83	
26 01 50 51-0090 EA 250 Watt, Pulse Start Metal Halide Lamp	55.14	
26 01 50 51-0091 EA 400 Watt, Pulse Start Metal Halide Lamp	66.41	
26 01 50 51-0092 EA 1,000 Watt, Pulse Start Metal Halide Lamp	77.21	
26 01 50 51-0093 EA 1,500 Watt, Pulse Start Metal Halide Lamp	76.76	
26 01 50 51-0094 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0095 EA 35 Watt, High Pressure Sodium Lamp	42.95	
For Enclosed And Gasket Light Fixtures, Add	3.31	
26 01 50 51-0096 EA 50 Watt, High Pressure Sodium Lamp	42.95	
For Enclosed And Gasket Light Fixtures, Add	3.31	
26 01 50 51-0097 EA 70 Watt, High Pressure Sodium Lamp	43.92	
For Enclosed And Gasket Light Fixtures, Add	3.31	
26 01 50 51-0098 EA 100 Watt, High Pressure Sodium Lamp	45.75	
For Enclosed And Gasket Light Fixtures, Add	3.31	
26 01 50 51-0099 EA 150 Watt, High Pressure Sodium Lamp	43.92	
For Enclosed And Gasket Light Fixtures, Add	3.31	
26 01 50 51-0100 EA 250 Watt, High Pressure Sodium Lamp	43.92	
For Enclosed And Gasket Light Fixtures, Add	3.31	
26 01 50 51-0101 EA 400 Watt, High Pressure Sodium Lamp	41.18	
For Enclosed And Gasket Light Fixtures, Add	3.31	
26 01 50 51-0102 EA 1,000 Watt, High Pressure Sodium Lamp	95.53	
26 01 50 51-0103 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0104 EA 35 Watt, Low Pressure Sodium Lamp.....	109.31	
26 01 50 51-0105 EA 55 Watt, Low Pressure Sodium Lamp.....	121.98	
26 01 50 51-0106 EA 70 Watt, Low Pressure Sodium Lamp.....	124.83	
26 01 50 51-0107 EA 90 Watt, Low Pressure Sodium Lamp.....	127.68	
26 01 50 51-0108 EA 135 Watt, Low Pressure Sodium Lamp.....	139.10	
26 01 50 51-0109 EA 180 Watt, Low Pressure Sodium Lamp.....	190.47	
26 01 50 51-0110 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0111 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0110)		
26 01 50 51-0112 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star)	26.35	
26 01 50 51-0113 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0110)		
26 01 50 51-0114 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	37.41	
26 01 50 51-0115 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	37.41	
26 01 50 51-0116 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	67.10	
26 01 50 51-0117 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	44.90	
26 01 50 51-0118 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	85.65	
26 01 50 51-0119 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0110)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0120 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	49.52	
26 01 50 51-0121 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	43.25	
26 01 50 51-0122 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	59.91	
26 01 50 51-0123 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	48.81	
26 01 50 51-0124 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	67.33	
26 01 50 51-0125 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	48.81	
26 01 50 51-0126 LED Lamps, Medium Base, PAR (26 01 50 51-0110)		
26 01 50 51-0127 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	55.46	
26 01 50 51-0128 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star).....	78.50	
26 01 50 51-0129 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	78.50	
26 01 50 51-0130 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	74.79	
26 01 50 51-0131 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	71.08	
26 01 50 51-0132 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	71.08	
26 01 50 51-0133 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	146.04	
26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	78.50	
26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	74.79	
26 01 50 51-0136 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star).....	78.50	
26 01 50 51-0137 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	78.50	
26 01 50 51-0138 LED Lamps, GU Base, MR16 (26 01 50 51-0110)		
26 01 50 51-0139 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	35.82	
26 01 50 51-0140 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	49.52	
26 01 50 51-0141 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	55.46	
26 01 50 51-0142 LED Lamps, PL Series (26 01 50 51-0110)		
26 01 50 51-0143 EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	18.13	
26 01 50 51-0144 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	24.06	
26 01 50 51-0145 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	20.53	
26 01 50 51-0146 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	22.74	
26 01 50 51-0147 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	22.74	
26 01 50 51-0148 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	26.72	
26 01 50 51-0149 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	22.74	
26 01 50 51-0150 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	22.74	
26 01 50 51-0151 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	22.74	
26 01 50 51-0152 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	22.74	
26 01 50 51-0153 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	25.39	
26 01 50 51-0154 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	25.39	
26 01 50 51-0155 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	25.39	
26 01 50 51-0156 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	25.39	
26 01 50 51-0157 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	24.06	
26 01 50 51-0158 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	24.06	
26 01 50 51-0159 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	24.06	
26 01 50 51-0160 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	24.95	
26 01 50 51-0161 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	24.95	
26 01 50 51-0162 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	25.14	
26 01 50 51-0163 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	25.14	
26 01 50 51-0164 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	25.14	
26 01 50 51-0165 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	25.14	
26 01 50 51-0166 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	25.83	
26 01 50 51-0167 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	25.83	
26 01 50 51-0168 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	25.83	
26 01 50 51-0169 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	25.83	
26 01 50 51-0170 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	25.83	
26 01 50 51-0171 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	25.83	
26 01 50 51-0172 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	25.83	
26 01 50 51-0173 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	25.83	
26 01 50 51-0174 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	32.74	
26 01 50 51-0175 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	32.74	
26 01 50 51-0176 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	32.74	
26 01 50 51-0177 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	31.15	
26 01 50 51-0178 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	31.15	
26 01 50 51-0179 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	31.15	
26 01 50 51-0180 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898).....	27.40	
26 01 50 51-0181 HID LED Lamps, Medium Base E26 (26 01 50 51-0110)		
26 01 50 51-0182 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	61.65	
26 01 50 51-0183 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	61.65	
26 01 50 51-0184 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	78.00	
26 01 50 51-0185 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	78.00	
26 01 50 51-0186 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	54.41	
26 01 50 51-0187 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	54.41	
26 01 50 51-0188 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	54.41	
26 01 50 51-0189 EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026).....	54.41	
26 01 50 51-0190 EA 15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026).....	56.18	
26 01 50 51-0191 EA 15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026).....	56.18	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0192	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	56.18
26 01 50 51-0193	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	56.18
26 01 50 51-0194	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	63.26
26 01 50 51-0195	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	63.26
26 01 50 51-0196	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	63.26
26 01 50 51-0197	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	63.26
26 01 50 51-0198	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	72.10
26 01 50 51-0199	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	72.10
26 01 50 51-0200	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	72.10
26 01 50 51-0201	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	72.10
26 01 50 51-0202	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	91.55
26 01 50 51-0203	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	91.55
26 01 50 51-0204	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	91.55
26 01 50 51-0205	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	91.55
26 01 50 51-0206	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	108.36
26 01 50 51-0207	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	108.36
26 01 50 51-0208	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	108.36
26 01 50 51-0209	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	108.36
26 01 50 51-0210	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	119.85
26 01 50 51-0211	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	119.85
26 01 50 51-0212	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	119.85
26 01 50 51-0213	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	119.85
26 01 50 51-0214	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	161.41
26 01 50 51-0215	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	161.41
26 01 50 51-0216	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	161.41
26 01 50 51-0217	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	161.41
26 01 50 51-0218	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	166.72
26 01 50 51-0219	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	166.72
26 01 50 51-0220	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	166.72
26 01 50 51-0221	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	166.72
26 01 50 51-0222	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	197.67
26 01 50 51-0223	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	197.67
26 01 50 51-0224	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	197.67
26 01 50 51-0225	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	197.67
26 01 50 51-0226	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	234.81
26 01 50 51-0227	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	234.81
26 01 50 51-0228	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	234.81
26 01 50 51-0229	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	234.81
26 01 50 51-0230	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	76.21
26 01 50 51-0231	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	82.40
26 01 50 51-0232	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	82.40
26 01 50 51-0233	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	76.21
26 01 50 51-0234	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	95.66
26 01 50 51-0235	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	87.71
26 01 50 51-0236	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	105.39
26 01 50 51-0237	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	104.35
26 01 50 51-0238	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	106.72
26 01 50 51-0239	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	106.72
26 01 50 51-0240	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	64.74
26 01 50 51-0241	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	64.74
26 01 50 51-0242	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	72.92
26 01 50 51-0243	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	72.92
26 01 50 51-0244	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	78.36
26 01 50 51-0245	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	78.36
26 01 50 51-0246	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	86.53
26 01 50 51-0247	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	86.53
26 01 50 51-0248	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	86.95
26 01 50 51-0249	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	94.21
26 01 50 51-0250	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	117.11
26 01 50 51-0251	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	128.96
26 01 50 51-0252	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	50.87
26 01 50 51-0253	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	57.24
26 01 50 51-0254	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	60.42
26 01 50 51-0255	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	66.35
26 01 50 51-0256	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148015-UNV)	79.72
26 01 50 51-0257	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148020-UNV)	93.33
26 01 50 51-0258	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148025-UNV)	127.34
26 01 50 51-0259	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148030-UNV)	134.14
26 01 50 51-0260	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148035-UNV)	145.03
26 01 50 51-0261	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148040-UNV)	151.83
26 01 50 51-0262	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148060-UNV)	218.49
26 01 50 51-0263	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	68.78

26 01 50 51-0264 HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0110)

26 01 50 51-0265	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	209.05
26 01 50 51-0266	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	209.05
26 01 50 51-0267	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	209.05
26 01 50 51-0268	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	61.65
26 01 50 51-0269	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	61.65



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0270	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	61.65	
26 01 50 51-0271	EA		45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	78.00	
26 01 50 51-0272	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	78.00	
26 01 50 51-0273	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	78.00	
26 01 50 51-0274	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	144.33	
26 01 50 51-0275	EA		80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	161.41	
26 01 50 51-0276	EA		80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	161.41	
26 01 50 51-0277	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	161.41	
26 01 50 51-0278	EA		80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	161.41	
26 01 50 51-0279	EA		100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	166.72	
26 01 50 51-0280	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	166.72	
26 01 50 51-0281	EA		100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	166.72	
26 01 50 51-0282	EA		100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	166.72	
26 01 50 51-0283	EA		120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	197.67	
26 01 50 51-0284	EA		120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	197.67	
26 01 50 51-0285	EA		120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	197.67	
26 01 50 51-0286	EA		120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	197.67	
26 01 50 51-0287	EA		150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	234.81	
26 01 50 51-0288	EA		150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	234.81	
26 01 50 51-0289	EA		150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	234.81	
26 01 50 51-0290	EA		150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	234.81	
26 01 50 51-0291	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	82.40	
26 01 50 51-0292	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	82.40	
26 01 50 51-0293	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	95.66	
26 01 50 51-0294	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	94.44	
26 01 50 51-0295	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	105.39	
26 01 50 51-0296	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	104.35	
26 01 50 51-0297	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	106.72	
26 01 50 51-0298	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	103.64	
26 01 50 51-0299	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	223.89	
26 01 50 51-0300	EA		20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	82.37	
26 01 50 51-0301	EA		20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	82.37	
26 01 50 51-0302	EA		30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	93.37	
26 01 50 51-0303	EA		30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	93.37	
26 01 50 51-0304	EA		40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	99.99	
26 01 50 51-0305	EA		40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	99.99	
26 01 50 51-0306	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	64.63	
26 01 50 51-0307	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	64.63	
26 01 50 51-0308	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	72.92	
26 01 50 51-0309	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	72.92	
26 01 50 51-0310	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	78.36	
26 01 50 51-0311	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	78.36	
26 01 50 51-0312	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	86.53	
26 01 50 51-0313	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	86.53	
26 01 50 51-0314	EA		65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	155.40	
26 01 50 51-0315	EA		80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	179.63	
26 01 50 51-0316	EA		100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	214.12	
26 01 50 51-0317	EA		120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	417.20	
26 01 50 51-0318	EA		150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	394.01	
26 01 50 51-0319	EA		200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	417.20	
26 01 50 51-0320	EA		250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	419.01	
26 01 50 51-0321	EA		24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	64.23	
26 01 50 51-0322	EA		24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	64.23	
26 01 50 51-0323	EA		24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	64.23	
26 01 50 51-0324	EA		100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	188.74	
26 01 50 51-0325	EA		115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	423.11	
26 01 50 51-0326	EA		40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	180.73	
26 01 50 51-0327	EA		100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	212.73	
26 01 50 51-0328	EA		45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K).....	94.37	
26 01 50 51-0329	EA		40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	295.25	
26 01 50 51-0330			LED Lamps, 2G11 Base (26 01 50 51-0110)		
26 01 50 51-0331	EA		19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	49.81	
26 01 50 51-0332			LED Lamps, GX23 Or G23 Base (26 01 50 51-0110)		
26 01 50 51-0333	EA		5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	24.62	
26 01 50 51-0334			LED Lamps, G24 Base (26 01 50 51-0110)		
26 01 50 51-0335	EA		5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	31.92	
26 01 50 51-0336			LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0110)		
26 01 50 51-0337	EA		2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	43.79	
			For Removal Of Multiple Lamps In A Fixture, Deduct	-3.45	
26 01 50 51-0338	EA		2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	56.91	
			For Removal Of Multiple Lamps In A Fixture, Deduct	-3.45	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0339	EA	3'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	47.18	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.66	
26 01 50 51-0340	EA	4'	1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	51.65	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.87	
26 01 50 51-0341	EA	4'	2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	56.57	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.87	
26 01 50 51-0342	EA	4'	2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN)	35.64	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.87	
26 01 50 51-0343	EA	2'	1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN)	34.34	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.45	
26 01 50 51-0344	EA	2'	1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	31.30	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.45	
26 01 50 51-0345	EA	3'	1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	31.86	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.66	
26 01 50 51-0346	EA	4'	1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	31.86	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.87	
26 01 50 51-0347	EA	4'	2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	33.02	
			For Removal Of Multiple Lamps In A Fixture, Deduct.....	-3.87	
26 01 50 51-0348			Filament LED Lamps (26 01 50 51-0110)		
26 01 50 51-0349	EA	7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	20.20		
26 01 50 51-0350	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R)	20.20		
26 01 50 51-0351	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	19.32		
26 01 50 51-0352	EA	4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	19.32		
26 01 50 51-0353	EA	4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827)	20.73		
26 01 50 51-0354	EA	4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A)	20.73		
26 01 50 51-0355	EA	3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827)	17.55		
26 01 50 51-0356	EA	3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	17.55		
26 01 50 51-0357	EA	3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	18.08		
26 01 50 51-0358	EA	3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A)	21.97		
26 01 50 51-0359	EA	4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	23.87		
26 01 50 51-0360			Other Lamps (26 01 50 51-0110)		
26 01 50 51-0361	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1)	19.18		
26 01 50 51-0362	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	19.18		
26 01 50 51-0363	EA	11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	19.18		
26 01 50 51-0364	EA	12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	20.06		
26 01 50 51-0365	EA	13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1)	20.06		
26 01 50 51-0366	EA	8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	20.06		
26 01 50 51-0367			LED Lamps, Light Engines, Round, LER Series (26 01 50 51-0110)		
26 01 50 51-0368	EA	5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730).....	57.66		
26 01 50 51-0369	EA	9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U).....	33.34		
26 01 50 51-0370			Remove Hazardous Lamps From Fixture For Recycling (26 01 50 51) Note: Excludes containers, shipping costs and recycling fees. See CSI section 26 01 50 51-0379 for recycling hazardous lamps.		
26 01 50 51-0371	EA	Removal Of 2' Length Linear Fluorescent Lamps.....	4.57		
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-1.51		
26 01 50 51-0372	EA	Removal Of 3' Length Linear Fluorescent Lamps.....	5.23		
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-1.73		
26 01 50 51-0373	EA	Removal Of 4' Length Linear Fluorescent Lamps.....	5.87		
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-1.94		
26 01 50 51-0374	EA	Removal Of 6' Length Linear Fluorescent Lamps.....	6.53		
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-2.15		
26 01 50 51-0375	EA	Removal Of 8' Length Linear Fluorescent Lamps.....	7.18		
		For Removal Of Multiple Lamps In A Fixture, Deduct.....	-2.37		
26 01 50 51-0376	EA	Removal Of Compact Fluorescent Lamps	3.91		
		For >25 To 40, Deduct.....	-0.39		
		For >40, Deduct.....	-0.78		
26 01 50 51-0377	EA	Removal Of U-Shaped Or Circular Fluorescent Lamps	6.21		
		For >25 To 40, Deduct.....	-0.62		
		For >40, Deduct.....	-1.24		
26 01 50 51-0378	EA	Removal Of High Intensity Discharge (HID) Or Metal Halide Lamps	11.10		
		For >25 To 40, Deduct.....	-1.11		
		For >40, Deduct.....	-2.22		
26 01 50 51-0379			Recycle Hazardous Lamps (26 01 50 51) Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.		
26 01 50 51-0380	EA	Recycle 2' Length Linear Fluorescent Lamps.....	1.79		
26 01 50 51-0381	EA	Recycle 3' Length Linear Fluorescent Lamps.....	2.29		
26 01 50 51-0382	EA	Recycle 4' Length Linear Fluorescent Lamps.....	2.79		
26 01 50 51-0383	EA	Recycle 6' Length Linear Fluorescent Lamps.....	3.95		



Electrical		26
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0384	EA	Recycle 8' Length Linear Fluorescent Lamps	4.95	
26 01 50 51-0385	EA	Recycle Compact Fluorescent Lamps	4.56	
26 01 50 51-0386	EA	Recycle U-Shaped Or Circular Fluorescent Lamps	4.56	
26 01 50 51-0387	EA	Recycle High Intensity Discharge (HID) Lamps	7.20	
26 01 50 52 Ballasts Replacement (26 01 50)				
26 01 50 52-0001		High Intensity Discharge (HID) Ballasts (26 01 50 52)		
26 01 50 52-0002		Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)		
26 01 50 52-0003		Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0004		Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0005	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	180.86	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0006	EA	1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	185.23	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0007	EA	1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	185.23	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0008	EA	1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	172.79	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0009	EA	1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	172.79	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0010	EA	1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	256.18	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0011	EA	1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	256.18	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0012	EA	1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	329.63	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0013	EA	1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	367.10	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0014		High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0015	EA	1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	163.59	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0016	EA	1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	173.36	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0017	EA	1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	169.14	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0018	EA	1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	198.52	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0019	EA	1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	194.32	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0020	EA	1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	221.58	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0021	EA	1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	221.58	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0022	EA	1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	266.91	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0023	EA	1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	266.91	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0024	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast	425.99	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0025	EA	1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast	425.99	32.64
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0026		Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0003)		
26 01 50 52-0027	EA	Single Mounting Bracket For Core And Coil Type	19.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 01 50 52-0028	EA	Double Mounting Bracket For Core And Coil Type	32.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.87	
26 01 50 52-0029		F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0030		Metal Halide, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0029)		
26 01 50 52-0031	EA	1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	229.00	32.64
		For Pulse Start Ballast, Add	18.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0032	EA	1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	241.12	32.64
		For Pulse Start Ballast, Add	19.54	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	
26 01 50 52-0033	EA	1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast	219.82	32.64
		For Pulse Start Ballast, Add	17.41	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0034 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....254.83 <i>For Pulse Start Ballast, Add</i> 20.91 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0035 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....352.94 <i>For Pulse Start Ballast, Add</i> 30.72 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0036 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0029)		
26 01 50 52-0037 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....274.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0038 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....293.84 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0039 Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0040 Metal Halide, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0041 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....456.13 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0042 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0039)		
26 01 50 52-0043 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....701.43 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.66		32.52
26 01 50 52-0044 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....782.00 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.66		32.52
26 01 50 52-0045 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....754.12 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.66		32.52
26 01 50 52-0046 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0047 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0048 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....561.07 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0049 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....636.52 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0050 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....839.98 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0051 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....835.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0052 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....1,169.94 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.49		35.24
26 01 50 52-0053 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....1,169.94 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.49		35.24
26 01 50 52-0054 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....805.66 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0055 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....947.46 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0056 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0046)		
26 01 50 52-0057 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....1,044.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0058 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....994.99 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0059 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....1,278.33 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0060 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....1,278.33 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0061 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0002)		
26 01 50 52-0062 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)		
26 01 50 52-0063 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....630.21 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0064 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....680.56 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0065 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....675.60 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0066 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....709.34 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 13.71		32.64
26 01 50 52-0067 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....1,125.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.49		35.24
26 01 50 52-0068 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....1,383.55 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 14.49		35.24



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Lighting		26 01 50

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 01 50 52-0069	EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,050.82		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0070	EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	956.90		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0071 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0061)				
26 01 50 52-0072	EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	812.92		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0073	EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	876.43		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0074	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,307.64		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0075	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast	1,125.45		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0076 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0001)				
26 01 50 52-0077 Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0076)				
26 01 50 52-0078	EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	253.15		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0079	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	253.15		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0080	EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	284.98		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0081	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	731.05		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0082	EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	731.05		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0083	EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	731.05		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0084	EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	731.05		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0085	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	731.05		32.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0086 Owner Supplied Ballasts (26 01 50 52)				
26 01 50 52-0087	EA Install Owner Supplied, 1 Lamp Fluorescent Ballast	26.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83		
26 01 50 52-0088	EA Install Owner Supplied, 2 Lamp Fluorescent Ballast	32.64		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.79		
26 01 50 52-0089	EA Install Owner Supplied, 3 Lamp Fluorescent Ballast	37.86		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.36		
26 01 50 52-0090	EA Install Owner Supplied, 4 Lamp Fluorescent Ballast	40.47		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.14		
26 01 50 52-0091	EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast	45.70		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.71		
26 01 50 52-0092	EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast	48.30		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.49		
26 01 50 53 Lens and Accessory Replacement (26 01 50)				
26 01 50 53-0001 Lens and Accessory Replacement (26 01 50 53)				
26 01 50 53-0002	EA Removal And Replacement Of Parabolic Aluminum Louver	88.03		
26 01 50 53-0003	EA Removal And Replacement Of Visor For Fixtures	198.06		
26 01 50 53-0004	EA Removal And Replacement Of Globe On Pole	220.67		
26 01 50 53-0005	EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures	94.45		
26 01 50 53-0006	EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	32.67		
26 01 50 53-0007	EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	33.74		
26 01 50 53-0008	EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser	38.38		
26 01 50 53-0009	EA Removal And Replacement Of Slide-On Lampholder	14.69		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90		
26 01 50 53-0010	EA Removal And Replacement Of Screw Mount Lampholder	14.85		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90		
26 01 50 53-0011	EA Removal And Replacement Of Medium Bi-Pin Lampholder	16.27		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90		
26 01 50 53-0012	EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	18.44		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90		
26 01 50 53-0013	EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type	19.85		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90		
26 01 50 53-0014	EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in	16.05		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.90		
26 01 50 53-0015	EA Removal And Replacement Of Exterior Light Globes	62.32		

26 Electrical**26 05 Common Work Results for Electrical****26 01 50 Operation and Maintenance of Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 Common Work Results for Electrical ⁽²⁶⁾**26 05 13 Medium-Voltage Cables** ^(26 05)**26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables** ^(26 05 13)**26 05 13 16-0001 Wire And Cable** ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)**26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct** ^(26 05 13 16-0002)

26 05 13 16-0004	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,774.54	1,011.05
26 05 13 16-0005	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,445.74	1,103.97
26 05 13 16-0006	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,289.15	1,247.31
26 05 13 16-0007	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,843.97	1,536.74
26 05 13 16-0008	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,790.41	1,730.51
26 05 13 16-0009	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,513.39	1,920.81
26 05 13 16-0010	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,707.36	2,158.23
26 05 13 16-0011	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,672.31	2,401.12
26 05 13 16-0012	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,788.49	2,866.88
26 05 13 16-0013	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	18,586.31	3,369.96
26 05 13 16-0014	MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	27,443.32	3,971.87
26 05 13 16-0015	MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	36,306.68	4,573.47

26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial ^(26 05 13 16-0002)

Note: Excludes excavation.

26 05 13 16-0017	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	3,648.17	
26 05 13 16-0018	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,086.96	
26 05 13 16-0019	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,571.95	
26 05 13 16-0020	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,640.80	
26 05 13 16-0021	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,102.69	
26 05 13 16-0022	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,586.78	
26 05 13 16-0023	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,187.23	
26 05 13 16-0024	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,787.92	
26 05 13 16-0025	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,865.80	
26 05 13 16-0026	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,519.61	

26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) ^(26 05 13 16-0002)

26 05 13 16-0028	MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	2,918.56	635.48
26 05 13 16-0029	MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,478.35	681.36
26 05 13 16-0030	MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,437.26	861.65
26 05 13 16-0031	MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,753.64	1,046.02
26 05 13 16-0032	MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,694.04	1,227.93
26 05 13 16-0033	MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,405.09	1,404.27
26 05 13 16-0034	MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,597.50	1,629.35
26 05 13 16-0035	MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,061.48	2,049.83
26 05 13 16-0036	MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,443.43	2,593.67
26 05 13 16-0037	MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	18,733.12	3,258.70

26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor ^(26 05 13 16-0002)

26 05 13 16-0039	MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,154.14	2,014.89
26 05 13 16-0040	MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,317.53	2,043.84
26 05 13 16-0041	MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,480.93	2,072.81
26 05 13 16-0042	MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,906.94	2,118.61
26 05 13 16-0043	MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,957.32	2,199.44
26 05 13 16-0044	MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	18,230.24	2,305.03
26 05 13 16-0045	MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	27,982.66	2,881.29
26 05 13 16-0046	MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	32,461.67	3,841.77

26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct ^(26 05 13 16-0002)

26 05 13 16-0048	MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	3,999.02	1,011.05
26 05 13 16-0049	MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,749.20	1,103.97
26 05 13 16-0050	MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,679.90	1,247.31
26 05 13 16-0051	MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,531.96	1,391.96
26 05 13 16-0052	MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,384.38	1,536.74
26 05 13 16-0053	MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,413.95	1,730.51
26 05 13 16-0054	MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,361.41	1,920.81
26 05 13 16-0055	MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,663.46	2,158.23
26 05 13 16-0056	MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,872.84	2,401.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	16,160.29	2,866.88
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	20,415.37	3,369.96
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	30,596.43	3,971.87
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct	40,783.81	4,573.47
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	3,872.64	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,390.42	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,962.70	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,572.50	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,181.21	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,726.24	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,434.80	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,143.33	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,988.45	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,237.60	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	15,348.68	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0074 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,143.04	635.48
26 05 13 16-0075 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,781.81	681.36
26 05 13 16-0076 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,828.01	861.65
26 05 13 16-0077 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	5,559.34	953.16
26 05 13 16-0078 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,294.05	1,046.02
26 05 13 16-0079 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,317.58	1,227.93
26 05 13 16-0080 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,253.11	1,404.27
26 05 13 16-0081 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,553.60	1,629.35
26 05 13 16-0082 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,262.01	2,049.83
26 05 13 16-0083 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	15,815.23	2,593.67
26 05 13 16-0084 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	20,562.18	3,258.70
26 05 13 16-0085 15 KV Cable (26 05 13 16-0001)		
26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0086)		
26 05 13 16-0088 MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	8,200.37	2,014.89
26 05 13 16-0089 MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	8,843.85	2,014.89
26 05 13 16-0090 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,089.29	2,014.89
26 05 13 16-0091 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,888.87	2,014.89
26 05 13 16-0092 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,647.78	2,014.89
26 05 13 16-0093 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,142.27	2,103.20
26 05 13 16-0094 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,440.42	2,103.20
26 05 13 16-0095 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,307.49	2,199.44
26 05 13 16-0096 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,184.58	2,251.01
26 05 13 16-0097 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	19,918.01	2,535.53
26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0086)		
Note: Excludes excavation.		
26 05 13 16-0099 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,921.88	
26 05 13 16-0100 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,721.44	
26 05 13 16-0101 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,480.36	
26 05 13 16-0102 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,002.73	
26 05 13 16-0103 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,300.87	
26 05 13 16-0104 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,287.24	
26 05 13 16-0105 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,167.69	
26 05 13 16-0106 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	17,612.98	
26 05 13 16-0107 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0086)		
26 05 13 16-0108 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,439.89	907.81
26 05 13 16-0109 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,603.02	1,046.02
26 05 13 16-0110 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,840.45	1,227.93
26 05 13 16-0111 MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	10,578.30	1,404.27
26 05 13 16-0112 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	11,468.40	1,629.35
26 05 13 16-0113 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,798.31	1,896.77
26 05 13 16-0114 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,370.86	2,210.22

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0115 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	20,332.59	2,567.39
26 05 13 16-0116 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0117 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0116)		
26 05 13 16-0118 MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,769.74	2,014.89
26 05 13 16-0119 MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,529.04	2,014.89
26 05 13 16-0120 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,818.66	2,014.89
26 05 13 16-0121 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,762.16	2,014.89
26 05 13 16-0122 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,657.68	2,014.89
26 05 13 16-0123 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,381.47	2,103.20
26 05 13 16-0124 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,733.28	2,103.20
26 05 13 16-0125 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,893.08	2,199.44
26 05 13 16-0126 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	18,084.85	2,251.01
26 05 13 16-0127 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	22,362.26	2,535.53
26 05 13 16-0128 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116)		
Note: Excludes excavation.		
26 05 13 16-0129 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,651.25	
26 05 13 16-0130 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,594.74	
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,490.26	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,241.93	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,593.73	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,868.22	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,058.93	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	20,057.23	
26 05 13 16-0137 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,169.26	907.81
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,476.32	1,046.02
26 05 13 16-0140 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,850.35	1,227.93
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,817.50	1,404.27
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,761.26	1,629.35
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	15,383.90	1,896.77
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	18,271.13	2,210.22
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,776.84	2,567.39
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,639.49	2,021.95
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,114.13	2,070.28
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,051.44	2,118.61
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	20,591.73	2,259.80
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	56.13	15.41
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	66.82	16.42
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	56.13	15.41
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	66.82	16.42
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	4,061.65	1,011.05
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	4,833.86	1,103.97
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	5,788.93	1,247.31
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	7,524.94	1,532.56
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	8,574.97	1,725.32
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	10,598.00	1,920.81
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	11,910.08	2,150.16
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial.....	19,263.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	495.68	129.79
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	732.96	129.79
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	732.96	129.79
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	771.59	155.75
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	771.59	155.75
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	771.59	155.75
26 05 13 16-0177 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	823.09	181.70
26 05 13 16-0178 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	823.09	181.70
26 05 13 16-0179 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	823.09	181.70
26 05 13 16-0180 Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	812.67	155.75
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	934.91	181.70
26 05 13 16-0183 Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	2,657.21	311.49
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	3,640.61	428.31
26 05 13 16-0186 Connect To Pothead, Pothead Included (26 05 13 16-0169)		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV	2,800.53	311.49
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV	3,639.76	356.93
26 05 13 16-0189 Two Conductor Pothead (26 05 13 16-0169) Note: Includes 5 KV pothead.		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	1,728.60	428.31
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	2,376.59	545.12
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,951.96	618.06
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	6,873.84	721.11
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	13,026.62	1,081.55
26 05 13 16-0195 Three Conductor Pothead (26 05 13 16-0169) Note: Includes 5 KV pothead.		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	8,799.93	623.00
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	9,566.20	726.83
26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection (26 05 13 16-0169) Note: For bare wire.		
26 05 13 16-0199 EA #6 AWG Crimp Compression Connection For Bare Copper Wire	88.99	
26 05 13 16-0200 EA #4 AWG Crimp Compression Connection For Bare Copper Wire	99.30	
26 05 13 16-0201 EA #3 AWG Crimp Compression Connection For Bare Copper Wire	115.71	
26 05 13 16-0202 EA #2 AWG Crimp Compression Connection For Bare Copper Wire	130.12	
26 05 13 16-0203 EA #1 AWG Crimp Compression Connection For Bare Copper Wire	147.35	
26 05 13 16-0204 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire	163.48	
26 05 13 16-0205 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire	179.14	
26 05 13 16-0206 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire	196.70	
26 05 13 16-0207 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire	213.10	
26 05 13 16-0208 EA 250 MCM Crimp Compression Connection For Bare Copper Wire	230.38	
26 05 13 16-0209 EA 300 MCM Crimp Compression Connection For Bare Copper Wire	248.76	
26 05 13 16-0210 EA 350 MCM Crimp Compression Connection For Bare Copper Wire	264.50	
26 05 13 16-0211 EA 400 MCM Crimp Compression Connection For Bare Copper Wire	300.59	
26 05 13 16-0212 EA 500 MCM Crimp Compression Connection For Bare Copper Wire	339.30	
26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection (26 05 13 16-0169) Note: For bare wire.		
26 05 13 16-0214 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire	94.10	
26 05 13 16-0215 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire	102.13	
26 05 13 16-0216 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire	139.45	
26 05 13 16-0217 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire	171.07	
26 05 13 16-0218 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	185.87	
26 05 13 16-0219 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	200.51	
26 05 13 16-0220 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	221.52	
26 05 13 16-0221 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	239.35	
26 05 13 16-0222 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire	256.01	
26 05 13 16-0223 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire	273.82	
26 05 13 16-0224 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire	290.80	
26 05 13 16-0225 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire	338.27	
26 05 13 16-0226 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire	386.30	

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0227		15 KV (26 05 13 16-0168)		
26 05 13 16-0228		Single Conductor Pothead On Racks (26 05 13 16-0227)		
		Note: Includes pothead.		
26 05 13 16-0229	EA	#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks	2,077.19	545.12
26 05 13 16-0230	EA	250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks	2,671.66	674.91
26 05 13 16-0231		Two Conductor Pothead On Rack (26 05 13 16-0227)		
		Note: Includes pothead.		
26 05 13 16-0232	EA	#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	3,006.75	830.66
26 05 13 16-0233	EA	250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	3,642.01	986.40
26 05 13 16-0234		Three Conductor Pothead On Rack (26 05 13 16-0227)		
		Note: Includes pothead.		
26 05 13 16-0235	EA	#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks	3,809.65	1,077.27
26 05 13 16-0236	EA	250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks	4,738.97	1,349.82
26 05 13 16-0237		Stress Relief Cone On Rack (26 05 13 16-0227)		
26 05 13 16-0238	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack	1,904.04	545.12
26 05 13 16-0239	EA	250 To 500 MCM Stress Relief Cone, On Rack	2,476.99	674.91
26 05 13 16-0240		Grounded, Shielded Cable Splice (26 05 13 16-0227)		
26 05 13 16-0241	EA	#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	1,267.26	402.35
26 05 13 16-0242	EA	250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	1,618.14	519.16
26 05 13 16-0243	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	9,397.27	1,427.69
26 05 13 16-0244	EA	3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	12,485.40	1,557.48
26 05 13 16-0245		Cable Termination (26 05 13 16-0227)		
26 05 13 16-0246	EA	#2 To 3/0 AWG Cable Termination 15 KV	901.19	227.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	136.28	
26 05 13 16-0247	EA	4/0 To 250 MCM Cable Termination 15 KV	1,130.87	292.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.22	
26 05 13 16-0248	EA	350 To 500 MCM Cable Termination 15 KV	1,409.77	356.93
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	214.16	
26 05 13 16-0249	EA	#2 To 3/0 AWG Cable Elbow Termination 15 KV	596.71	129.79
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.87	
26 05 13 16-0250		Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)		
26 05 13 16-0251	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,334.41	168.73
26 05 13 16-0252	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,529.04	186.49
26 05 13 16-0253	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,842.34	204.08
26 05 13 16-0254	EA	400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	2,411.15	235.13
26 05 13 16-0255		Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)		
26 05 13 16-0256	EA	#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	2,668.86	338.03
26 05 13 16-0257	EA	2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	3,058.51	372.96
26 05 13 16-0258	EA	4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	3,669.53	400.58
26 05 13 16-0259	EA	400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	4,822.29	470.26
26 05 13 16-0260		35 KV (26 05 13 16-0168)		
26 05 13 16-0261		35 KV One Conductor Splice (26 05 13 16-0260)		
26 05 13 16-0262	EA	#1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing	3,181.75	
26 05 13 16-0263		Cable Termination (26 05 13 16-0260)		
26 05 13 16-0264	EA	#2 To 3/0 AWG Cable Termination, 35 KV	851.05	155.88
26 05 13 16-0265	EA	3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	1,130.16	235.18
26 05 13 16-0266	EA	350 To 500 MCM Cable Termination 35 KV	1,342.91	251.54
26 05 13 16-0267	EA	#2 To 3/0 AWG Cable Elbow Termination 35 KV	666.42	129.79
26 05 13 16-0268		70 KV (26 05 13 16-0168)		
26 05 13 16-0269		Cable Splice (26 05 13 16-0268)		
26 05 13 16-0270	EA	350 MCM, 70 KV, Cable Splicing.....	22,714.53	
26 05 13 16-0271	EA	#2 To 4/0, 70 KV, Cable Splicing	3,356.92	

26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001)		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.41	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits	0.21	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.71	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.45	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	3.54	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	4.51	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	496.09	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
26 05 19 16-0011 Wire and Cable (26 05 19 16)		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0058 for various conduit types.		
26 05 19 16-0012 600 Volt Wire (26 05 19 16-0011)		
26 05 19 16-0013 Single Solid Conductor, Copper (26 05 19 16-0012)		
26 05 19 16-0014 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	707.93	287.84
26 05 19 16-0015 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	884.20	338.60
26 05 19 16-0016 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,090.81	414.03
26 05 19 16-0017 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	898.30	287.84
26 05 19 16-0018 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,082.87	338.60
26 05 19 16-0019 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,294.55	414.03
26 05 19 16-0020 Power Cable, Stranded Conductor, Copper (26 05 19 16-0012)		
26 05 19 16-0021 Power Cable, Stranded, Single Conductor, XHHW-2 (26 05 19 16-0020)		
26 05 19 16-0022 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	739.76	237.20
26 05 19 16-0023 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	873.86	284.64
26 05 19 16-0024 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,073.47	332.08
26 05 19 16-0025 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,317.28	379.52
26 05 19 16-0026 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,751.97	474.41
26 05 19 16-0027 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,358.94	569.28
26 05 19 16-0028 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,221.99	711.61
26 05 19 16-0029 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,808.25	806.49
26 05 19 16-0030 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,503.36	901.37
26 05 19 16-0031 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,569.40	996.25
26 05 19 16-0032 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,675.83	1,138.57
26 05 19 16-0033 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,987.96	1,280.90
26 05 19 16-0034 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	9,549.25	1,423.21
26 05 19 16-0035 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	11,427.95	1,565.54
26 05 19 16-0036 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	12,116.26	1,707.85
26 05 19 16-0037 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	14,347.67	1,850.18
26 05 19 16-0038 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	15,307.75	1,992.50
26 05 19 16-0039 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,112.46	2,134.82
26 05 19 16-0040 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	19,794.06	2,277.14
26 05 19 16-0041 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	22,778.79	2,466.90
26 05 19 16-0042 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	34,516.45	2,751.55
26 05 19 16-0043 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	48,614.07	3,225.95
26 05 19 16-0044 Power Cable, Stranded, Multi Conductor, XHHW-2 (26 05 19 16-0020)		
26 05 19 16-0045 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	1,747.72	569.16
26 05 19 16-0046 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,147.18	664.28
26 05 19 16-0047 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,665.36	806.49
26 05 19 16-0048 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,166.70	877.29
26 05 19 16-0049 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,448.25	924.97
26 05 19 16-0050 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,009.55	1,019.74
26 05 19 16-0051 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,819.37	1,062.90
26 05 19 16-0052 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	4,852.82	1,162.29
26 05 19 16-0053 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	5,355.70	1,233.69
26 05 19 16-0054 MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	7,808.24	1,565.65
26 05 19 16-0055 MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	11,814.93	2,324.58
26 05 19 16-0056 MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,147.22	664.28
26 05 19 16-0057 MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,746.13	806.49
26 05 19 16-0058 MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	3,345.08	948.80
26 05 19 16-0059 MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	2,870.86	853.58

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 19 16-0060	MLF	3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,712.42	1,042.74
26 05 19 16-0061	MLF	4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,795.32	1,328.57
26 05 19 16-0062	MLF	6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,481.99	1,708.45
26 05 19 16-0063	MLF	9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,772.21	2,182.38
26 05 19 16-0064	MLF	2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,563.24	972.53
26 05 19 16-0065	MLF	3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,544.29	1,138.57
26 05 19 16-0066	MLF	4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,881.16	1,446.94
26 05 19 16-0067	MLF	2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,599.41	1,091.13
26 05 19 16-0068	MLF	3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,187.33	1,352.05
26 05 19 16-0069	MLF	4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,911.76	1,667.53
26 05 19 16-0070	MLF	2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,195.41	1,323.83
26 05 19 16-0071	MLF	3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,114.39	1,514.19
26 05 19 16-0072	MLF	4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,495.65	1,889.55
26 05 19 16-0073	MLF	2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,531.10	1,612.51
26 05 19 16-0074	MLF	3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,257.80	1,803.21
26 05 19 16-0075	MLF	4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	14,929.78	2,372.03
26 05 19 16-0076	MLF	3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	14,928.21	2,276.79
26 05 19 16-0077	MLF	4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	19,428.12	2,845.24
26 05 19 16-0078	MLF	3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	17,656.54	2,467.38
26 05 19 16-0079	MLF	3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,470.23	2,845.24
26 05 19 16-0080	MLF	3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	26,272.13	3,319.41
26 05 19 16-0081	MLF	4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	34,634.33	4,267.86
26 05 19 16-0082	MLF	3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	32,038.59	3,798.44
26 05 19 16-0083	MLF	3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	34,209.33	4,267.86
26 05 19 16-0084	MLF	3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	42,839.56	4,744.04
26 05 19 16-0085	MLF	3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	55,338.47	5,213.95

26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0012)

Note: Direct bury.

26 05 19 16-0087	MLF	#14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,053.06	
26 05 19 16-0088	MLF	#12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,239.51	
26 05 19 16-0089	MLF	#10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,555.86	
26 05 19 16-0090	MLF	#8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,048.46	
26 05 19 16-0091	MLF	#6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,872.33	
26 05 19 16-0092	MLF	#4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,785.70	
26 05 19 16-0093	MLF	#2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,478.33	
26 05 19 16-0094	MLF	#1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,819.67	
26 05 19 16-0095	MLF	1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,368.19	
26 05 19 16-0096	MLF	2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,143.21	
26 05 19 16-0097	MLF	3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,231.66	
26 05 19 16-0098	MLF	4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,819.03	
26 05 19 16-0099	MLF	250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,964.40	
26 05 19 16-0100	MLF	300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,922.13	
26 05 19 16-0101	MLF	350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,040.33	
26 05 19 16-0102	MLF	400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,518.74	
26 05 19 16-0103	MLF	500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	26,679.56	
26 05 19 16-0104	MLF	600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	31,515.85	
26 05 19 16-0105	MLF	750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	50,132.17	
26 05 19 16-0106	MLF	#14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	867.29	
26 05 19 16-0107	MLF	#12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,038.59	
26 05 19 16-0108	MLF	#10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,241.13	
26 05 19 16-0109	MLF	#8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,523.56	
26 05 19 16-0110	MLF	#6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,954.18	
26 05 19 16-0111	MLF	#4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,592.66	
26 05 19 16-0112	MLF	#2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,511.56	
26 05 19 16-0113	MLF	#1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,145.54	
26 05 19 16-0114	MLF	1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,694.01	
26 05 19 16-0115	MLF	2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,290.12	
26 05 19 16-0116	MLF	3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,138.88	
26 05 19 16-0117	MLF	4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,161.07	
26 05 19 16-0118	MLF	250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,113.76	
26 05 19 16-0119	MLF	300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,117.61	
26 05 19 16-0120	MLF	350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,205.58	
26 05 19 16-0121	MLF	400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,330.15	
26 05 19 16-0122	MLF	500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,168.64	
26 05 19 16-0123	MLF	750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,883.25	
26 05 19 16-0124	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	733.14	
26 05 19 16-0125	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	912.10	
26 05 19 16-0126	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,131.39	
26 05 19 16-0127	MLF	#8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,591.67	
26 05 19 16-0128	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,171.41	
26 05 19 16-0129	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,877.70	
26 05 19 16-0130	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,118.53	
26 05 19 16-0131	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,912.09	
26 05 19 16-0132	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,715.00	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0133 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,491.04	
26 05 19 16-0134 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,713.50	
26 05 19 16-0135 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,201.00	
26 05 19 16-0136 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,811.51	
26 05 19 16-0137 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,490.12	
26 05 19 16-0138 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,295.54	
26 05 19 16-0139 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	16,036.99	
26 05 19 16-0140 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,065.85	
26 05 19 16-0141 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,939.61	
26 05 19 16-0142 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	36,365.97	
26 05 19 16-0143 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,000.59	
26 05 19 16-0144 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,605.13	
26 05 19 16-0145 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,555.16	
26 05 19 16-0146 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,851.14	
26 05 19 16-0147 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,058.78	
26 05 19 16-0148 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,996.69	
26 05 19 16-0149 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	18,606.52	
26 05 19 16-0150 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,225.79	
26 05 19 16-0151 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	23,057.40	
26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0012)		
26 05 19 16-0153 ACTHH, Solid (26 05 19 16-0152)		
26 05 19 16-0154 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	2,843.95	778.74
26 05 19 16-0155 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,282.93	882.57
26 05 19 16-0156 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	3,770.69	934.49
26 05 19 16-0157 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,068.52	1,297.91
26 05 19 16-0158 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,347.30	1,453.39
26 05 19 16-0159 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	5,547.06	1,610.31
26 05 19 16-0160 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	7,313.81	1,765.80
26 05 19 16-0161 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,941.44	1,453.39
26 05 19 16-0162 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,160.34	1,610.31
26 05 19 16-0163 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,643.98	1,817.85
26 05 19 16-0164 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,703.51	1,972.56
26 05 19 16-0165 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,915.30	1,610.31
26 05 19 16-0166 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,471.92	1,817.85
26 05 19 16-0167 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	8,289.33	2,024.86
26 05 19 16-0168 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,836.39	2,181.38
26 05 19 16-0169 ACTHH, Stranded (26 05 19 16-0152)		
26 05 19 16-0170 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	7,574.62	1,870.15
26 05 19 16-0171 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	9,268.22	2,127.66
26 05 19 16-0172 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	8,963.88	2,076.65
26 05 19 16-0173 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	11,298.08	2,334.41
26 05 19 16-0174 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	14,372.44	2,595.81
26 05 19 16-0175 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	16,551.62	2,852.53
26 05 19 16-0176 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	18,999.27	3,112.51
26 05 19 16-0177 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	11,610.95	2,491.19
26 05 19 16-0178 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	14,113.80	2,749.74
26 05 19 16-0179 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	18,268.10	3,011.39
26 05 19 16-0180 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	20,026.85	3,269.29
26 05 19 16-0181 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	23,836.40	3,526.93
26 05 19 16-0182 HCFC, Solid (26 05 19 16-0152)		
26 05 19 16-0183 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	4,585.94	1,297.91
26 05 19 16-0184 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,013.34	1,458.33
26 05 19 16-0185 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	5,609.51	1,602.39
26 05 19 16-0186 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,583.54	1,458.33
26 05 19 16-0187 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,982.62	1,602.39
26 05 19 16-0188 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	7,881.12	1,828.10
26 05 19 16-0189 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,900.47	1,602.39
26 05 19 16-0190 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	7,523.18	1,828.10
26 05 19 16-0191 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	10,384.13	2,027.98
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0152)		
26 05 19 16-0193 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,135.88	1,297.91
26 05 19 16-0194 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,614.99	1,458.33

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0195 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,626.51	1,602.39
26 05 19 16-0196 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	7,372.23	1,712.32
26 05 19 16-0197 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,345.36	1,815.25
26 05 19 16-0198 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	4,798.30	1,458.33
26 05 19 16-0199 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,436.41	1,602.39
26 05 19 16-0200 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	7,017.67	1,828.10
26 05 19 16-0201 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,332.14	1,972.56
26 05 19 16-0202 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	11,008.12	2,127.66
26 05 19 16-0203 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	13,806.25	2,285.10
26 05 19 16-0204 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	19,479.73	2,439.67
26 05 19 16-0205 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,609.88	1,602.39
26 05 19 16-0206 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,430.73	1,828.10
26 05 19 16-0207 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	10,108.42	2,027.98
26 05 19 16-0208 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	13,986.67	2,233.96
26 05 19 16-0209 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	17,276.58	2,390.22
26 05 19 16-0210 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	23,125.31	2,544.93
26 05 19 16-0211 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	30,193.06	2,698.35
26 05 19 16-0212 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0213 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,217.72	986.40
26 05 19 16-0214 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,784.57	1,142.16
26 05 19 16-0215 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,958.44	1,297.91
26 05 19 16-0216 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,842.43	1,453.65
26 05 19 16-0217 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	4,796.12	1,142.16
26 05 19 16-0218 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,681.19	1,297.91
26 05 19 16-0219 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,175.34	1,453.65
26 05 19 16-0220 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	8,172.77	1,609.40
26 05 19 16-0221 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0222 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,320.98	1,297.91
26 05 19 16-0223 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,643.95	1,453.65
26 05 19 16-0224 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	8,915.25	1,609.40
26 05 19 16-0225 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	10,360.04	1,765.15
26 05 19 16-0226 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	6,755.27	1,453.65
26 05 19 16-0227 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	8,305.09	1,609.40
26 05 19 16-0228 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0229 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,595.78	986.40
26 05 19 16-0230 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	7,393.77	1,453.65
26 05 19 16-0231 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,668.82	1,142.16
26 05 19 16-0232 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,708.26	1,297.91
26 05 19 16-0233 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	9,374.18	1,609.40
26 05 19 16-0234 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,637.46	1,349.82
26 05 19 16-0235 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,225.71	1,557.48
26 05 19 16-0236 Armored Cable Connectors (26 05 19 16-0152)		
26 05 19 16-0237 EA 3/4" Armored Cable Connector	7.90	2.85
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		2.14
For Elevated Installation >15' To 20', Add		0.71
For Elevated Installation >20' To 25', Add		1.42
For Elevated Installation >25' To 30', Add		1.78
For Elevated Installation >30' To 35', Add		2.49
For Elevated Installation >35' To 40', Add		2.85
For Elevated Installation >40', Add		3.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		3.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		2.14
26 05 19 16-0238 EA 1" Armored Cable Connector	10.54	3.79
For Work In Restricted Working Space, Add		
For Elevated Installation >10' To 15', Add		2.84
For Elevated Installation >15' To 20', Add		0.95
For Elevated Installation >20' To 25', Add		1.90
For Elevated Installation >25' To 30', Add		2.37
For Elevated Installation >30' To 35', Add		3.32
For Elevated Installation >35' To 40', Add		3.79
For Elevated Installation >40', Add		4.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		5.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		2.84



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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 19 16-0239	EA 1-1/4" Armored Cable Connector.....	13.25		4.75
	For Work In Restricted Working Space, Add	3.56		
	For Elevated Installation >10' To 15', Add	1.19		
	For Elevated Installation >15' To 20', Add	2.37		
	For Elevated Installation >20' To 25', Add	2.97		
	For Elevated Installation >25' To 30', Add	4.15		
	For Elevated Installation >30' To 35', Add	4.74		
	For Elevated Installation >35' To 40', Add	5.93		
	For Elevated Installation >40', Add	6.52		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56		
26 05 19 16-0240	600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)			
26 05 19 16-0241	MLF #12 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	926.28		287.96
26 05 19 16-0242	MLF #10 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,152.73		338.60
26 05 19 16-0243	MLF #8 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,628.79		460.53
26 05 19 16-0244	MLF #6 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,232.76		551.26
26 05 19 16-0245	MLF #4 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,972.23		642.70
26 05 19 16-0246	MLF #2 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,267.31		827.95
26 05 19 16-0247	MLF #1 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,100.26		921.18
26 05 19 16-0248	MLF 1/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,934.78		1,037.88
26 05 19 16-0249	MLF 2/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,748.99		1,151.38
26 05 19 16-0250	MLF 3/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,041.18		1,292.87
26 05 19 16-0251	MLF 4/0 AWG, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,608.77		1,426.29
26 05 19 16-0252	MLF 250 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,308.07		1,567.91
26 05 19 16-0253	MLF 300 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,080.31		1,713.79
26 05 19 16-0254	MLF 350 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,988.33		1,842.23
26 05 19 16-0255	MLF 400 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,827.87		2,046.94
26 05 19 16-0256	MLF 500 MCM, Type THW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,045.94		2,255.79
26 05 19 16-0257	MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	974.71		190.12
	For EPR Insulation, Add	39.47		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	92.09		
26 05 19 16-0258	MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,098.42		210.52
	For EPR Insulation, Add	40.23		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	93.87		
26 05 19 16-0259	MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,340.38		263.18
	For EPR Insulation, Add	58.74		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	137.05		
26 05 19 16-0260	MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,829.76		418.66
	For EPR Insulation, Add	96.56		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	225.31		
26 05 19 16-0261	MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,504.96		502.40
	For EPR Insulation, Add	162.26		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	378.61		
26 05 19 16-0262	MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,415.57		583.28
	For EPR Insulation, Add	245.48		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	572.79		
26 05 19 16-0263	MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,897.02		667.60
	For EPR Insulation, Add	282.12		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	658.28		
26 05 19 16-0264	MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,911.40		751.93
	For EPR Insulation, Add	398.70		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	930.29		
26 05 19 16-0265	MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,081.98		837.44
	For EPR Insulation, Add	538.70		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,256.98		
26 05 19 16-0266	MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	7,331.78		944.78
	For EPR Insulation, Add	672.80		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,569.88		
26 05 19 16-0267	MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,840.43		1,047.73
	For EPR Insulation, Add	845.73		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,973.37		
26 05 19 16-0268	MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	10,603.65		1,169.64
	For EPR Insulation, Add	1,056.84		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,465.96		
26 05 19 16-0269	MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,959.90		1,300.47
	For EPR Insulation, Add	1,206.91		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,816.12		
26 05 19 16-0270	MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	12,737.18		1,426.29
	For EPR Insulation, Add	1,270.13		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,963.64		
26 05 19 16-0271	MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	15,026.44		1,567.91
	For EPR Insulation, Add	1,560.15		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,640.35		
26 05 19 16-0272	MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,760.84		1,662.19
	For EPR Insulation, Add	1,766.94		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,122.86		
26 05 19 16-0273	MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,776.96		1,857.77
	For EPR Insulation, Add	2,015.99		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,703.97		
26 05 19 16-0274	MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	21,452.46		2,066.15
	For EPR Insulation, Add	2,363.94		
	For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,515.86		

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0275 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	25,113.30 2,841.91 6,631.11	2,149.65
26 05 19 16-0276 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	40,712.53 5,075.05 11,841.78	2,233.02
26 05 19 16-0277 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit..... <i>For EPR Insulation, Add</i> <i>For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add</i>	51,251.24 6,584.70 15,364.29	2,386.02
26 05 19 16-0278 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,695.80	426.73
26 05 19 16-0279 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,119.41	474.41
26 05 19 16-0280 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,859.55	569.76
26 05 19 16-0281 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,152.86	663.93
26 05 19 16-0282 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,691.81	710.90
26 05 19 16-0283 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	554.40	237.20
26 05 19 16-0284 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	691.46	260.92
26 05 19 16-0285 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	726.47	190.24
26 05 19 16-0286 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	902.55	226.77
26 05 19 16-0287 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,117.07	285.23
26 05 19 16-0288 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,566.70	375.97
26 05 19 16-0289 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,130.14	454.00
26 05 19 16-0290 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,814.09	536.55
26 05 19 16-0291 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,362.82	607.36
26 05 19 16-0292 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,018.42	680.18
26 05 19 16-0293 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,785.48	767.59
26 05 19 16-0294 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,567.10	840.53
26 05 19 16-0295 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,317.48	928.88
26 05 19 16-0296 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,493.03	982.49
26 05 19 16-0297 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,926.65	1,105.36
26 05 19 16-0298 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	10,477.40	1,175.93
26 05 19 16-0299 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,093.02	1,331.78
26 05 19 16-0300 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,829.42	1,473.85
26 05 19 16-0301 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	15,504.90	1,514.19
26 05 19 16-0302 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	18,406.45	1,601.95
26 05 19 16-0303 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	22,821.01	1,885.17
26 05 19 16-0304 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	34,939.21	2,233.02
26 05 19 16-0305 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	41,857.41	2,696.04
26 05 19 16-0306 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,993.32	569.76
26 05 19 16-0307 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,324.49	663.93
26 05 19 16-0308 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,853.08	759.64
26 05 19 16-0309 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,017.13	853.58
26 05 19 16-0310 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,686.71	948.80
26 05 19 16-0311 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,265.04	1,042.74

26 05 19 16-0312 Non-Metallic Sheathed Cable (26 05 19 16-0312)**26 05 19 16-0313 Indoor Installation** (26 05 19 16-0312)

Note: For NM, NM-B, NMC-B and NMS-B.

26 05 19 16-0314 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,426.92	901.25
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	337.96	
26 05 19 16-0315 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,337.26	1,091.13
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	409.19	
26 05 19 16-0316 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,771.63	1,207.36
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	452.76	
26 05 19 16-0317 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,457.60	1,024.71
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	364.70	
26 05 19 16-0318 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	6,675.11	1,138.33
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	426.89	
26 05 19 16-0319 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	9,100.58	1,271.40
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	476.78	
26 05 19 16-0320 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,643.05	1,138.93
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	427.11	
26 05 19 16-0321 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	9,421.42	1,328.57
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	498.21	
26 05 19 16-0322 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	11,297.63	1,518.09
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	569.29	
26 05 19 16-0323 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	11,462.37	1,363.91
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	485.67	
26 05 19 16-0324 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	14,728.66	1,648.55
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	587.08	
26 05 19 16-0325 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	15,251.99	1,553.68
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	551.49	
26 05 19 16-0326 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	20,550.44	1,873.90
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	667.13	
26 05 19 16-0327 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	49,678.97	2,063.66
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	733.84	
26 05 19 16-0328 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	58,106.23	2,241.56
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	800.55	

26 05 19 16-0329 Direct Burial Cable (26 05 19 16-0312)

Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0330 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	2,621.64	
26 05 19 16-0331 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,392.83	
26 05 19 16-0332 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,309.48	
26 05 19 16-0333 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,156.04	
26 05 19 16-0334 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,555.07	
26 05 19 16-0335 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,980.99	
26 05 19 16-0336 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	5,270.33	
26 05 19 16-0337 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,691.62	
26 05 19 16-0338 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,582.39	
26 05 19 16-0339 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	8,546.54	
26 05 19 16-0340 SEU Cable Copper, 3 Conductor (26 05 19 16-0312)		
26 05 19 16-0341 MLF 12-12-12 Cable SEU Copper	3,449.67	1,142.55
26 05 19 16-0342 MLF 10-10-10 Cable SEU Copper	4,305.51	1,297.91
26 05 19 16-0343 MLF 8-8-8 Cable SEU Copper	5,329.05	1,453.39
26 05 19 16-0344 MLF 6-6-8 Cable SEU Copper	6,401.56	1,558.13
26 05 19 16-0345 MLF 6-6-6 Cable SEU Copper	6,874.97	1,610.31
26 05 19 16-0346 MLF 4-4-6 Cable SEU Copper	8,347.06	1,765.80
26 05 19 16-0347 MLF 4-4-4 Cable SEU Copper	8,979.61	1,817.85
26 05 19 16-0348 MLF 3-3-5 Cable SEU Copper	10,431.02	1,972.56
26 05 19 16-0349 MLF 3-3-3 Cable SEU Copper	11,076.44	2,076.65
26 05 19 16-0350 MLF 2-2-4 Cable SEU Copper	11,826.47	2,181.38
26 05 19 16-0351 MLF 2-2-2 Cable SEU Copper	12,636.33	2,285.10
26 05 19 16-0352 MLF 1-1-1 Cable SEU Copper	15,434.45	2,595.81
26 05 19 16-0353 MLF 1/0-1/0-1/0 Cable SEU Copper	18,338.98	2,910.16
26 05 19 16-0354 MLF 2/0-2/0-2/0 Cable SEU Copper	22,046.89	3,277.60
26 05 19 16-0355 MLF 3/0-3/0-3/0 Cable SEU Copper	26,476.95	3,645.82
26 05 19 16-0356 MLF 4/0-4/0-4/0 Cable SEU Copper	29,588.52	4,068.67
26 05 19 16-0357 SER Cable Copper, 4 Conductor (26 05 19 16-0312)		
26 05 19 16-0358 MLF 6-6-6-6 Cable SER Copper.....	10,689.61	1,870.15
26 05 19 16-0359 MLF 4-4-4-6 Cable SER Copper.....	11,718.38	2,024.86
26 05 19 16-0360 MLF 3-3-3-5 Cable SER Copper.....	14,492.61	2,285.10
26 05 19 16-0361 MLF 2-2-2-4 Cable SER Copper.....	16,575.15	2,491.19
26 05 19 16-0362 MLF 1-1-1-3 Cable SER Copper.....	19,312.28	2,852.53
26 05 19 16-0363 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	23,494.72	3,269.29
26 05 19 16-0364 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	29,362.39	3,526.93
26 05 19 16-0365 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	33,898.26	3,944.99
26 05 19 16-0366 Control Tray Cable, Low Voltage (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0367 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,187.30	575.34
For Work In Restricted Working Space, Add	287.67	
26 05 19 16-0368 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,366.30	643.58
For Work In Restricted Working Space, Add	321.79	
26 05 19 16-0369 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,426.13	643.53
For Work In Restricted Working Space, Add	321.79	
26 05 19 16-0370 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,785.80	807.17
For Work In Restricted Working Space, Add	403.59	
26 05 19 16-0371 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,243.02	983.62
For Work In Restricted Working Space, Add	491.81	
26 05 19 16-0372 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,553.24	1,081.65
For Work In Restricted Working Space, Add	540.82	
26 05 19 16-0373 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,027.27	1,229.01
For Work In Restricted Working Space, Add	614.51	
26 05 19 16-0374 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,819.76	1,502.20
For Work In Restricted Working Space, Add	751.10	
26 05 19 16-0375 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,352.03	1,638.83
For Work In Restricted Working Space, Add	819.42	
26 05 19 16-0376 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,111.78	1,690.06
For Work In Restricted Working Space, Add	845.03	
26 05 19 16-0377 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,276.17	2,111.34
For Work In Restricted Working Space, Add	1,055.67	
26 05 19 16-0378 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,516.94	2,467.50
For Work In Restricted Working Space, Add	1,233.75	
26 05 19 16-0379 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,294.82	606.06
For Work In Restricted Working Space, Add	302.79	
26 05 19 16-0380 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,496.18	677.45
For Work In Restricted Working Space, Add	338.73	
26 05 19 16-0381 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,741.73	779.92
For Work In Restricted Working Space, Add	389.96	
26 05 19 16-0382 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,966.74	849.66
For Work In Restricted Working Space, Add	424.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0383 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,480.23	1,035.39
For Work In Restricted Working Space, Add	517.70	
26 05 19 16-0384 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,835.74	1,138.57
For Work In Restricted Working Space, Add	569.29	
26 05 19 16-0385 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,379.81	1,293.70
For Work In Restricted Working Space, Add	646.85	
26 05 19 16-0386 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,280.43	1,581.19
For Work In Restricted Working Space, Add	790.59	
26 05 19 16-0387 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,900.70	1,724.94
For Work In Restricted Working Space, Add	862.47	
26 05 19 16-0388 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,833.79	1,779.02
For Work In Restricted Working Space, Add	889.51	
26 05 19 16-0389 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	7,150.50	2,222.34
For Work In Restricted Working Space, Add	1,111.17	
26 05 19 16-0390 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable.....	8,584.49	2,597.37
For Work In Restricted Working Space, Add	1,298.68	
26 05 19 16-0391 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,401.06	632.62
For Work In Restricted Working Space, Add	316.31	
26 05 19 16-0392 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,668.67	711.61
For Work In Restricted Working Space, Add	355.80	
26 05 19 16-0393 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,953.83	813.36
For Work In Restricted Working Space, Add	406.68	
26 05 19 16-0394 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,194.16	875.99
For Work In Restricted Working Space, Add	437.99	
26 05 19 16-0395 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,911.37	1,073.82
For Work In Restricted Working Space, Add	536.91	
26 05 19 16-0396 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,350.28	1,186.01
For Work In Restricted Working Space, Add	593.12	
26 05 19 16-0397 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable.....	4,095.82	1,323.59
For Work In Restricted Working Space, Add	661.79	
26 05 19 16-0398 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable.....	4,892.25	1,580.95
For Work In Restricted Working Space, Add	790.59	
26 05 19 16-0399 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable.....	8,173.20	1,837.13
For Work In Restricted Working Space, Add	918.33	
26 05 19 16-0400 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable.....	7,305.87	2,147.87
For Work In Restricted Working Space, Add	1,074.17	
26 05 19 16-0401 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable.....	8,480.98	2,400.25
For Work In Restricted Working Space, Add	1,200.13	
26 05 19 16-0402 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable.....	10,207.47	2,805.16
For Work In Restricted Working Space, Add	1,402.58	
26 05 19 16-0403 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable.....	1,625.34	677.45
For Work In Restricted Working Space, Add	338.73	
26 05 19 16-0404 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable.....	1,935.47	749.56
For Work In Restricted Working Space, Add	374.66	
26 05 19 16-0405 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable.....	2,348.37	862.47
For Work In Restricted Working Space, Add	431.23	
26 05 19 16-0406 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable.....	2,651.62	917.98
For Work In Restricted Working Space, Add	458.99	
26 05 19 16-0407 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable.....	3,482.80	1,094.45
For Work In Restricted Working Space, Add	547.23	
26 05 19 16-0408 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable.....	4,290.74	1,293.70
For Work In Restricted Working Space, Add	646.85	
26 05 19 16-0409 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable.....	5,206.09	1,459.50
For Work In Restricted Working Space, Add	729.75	
26 05 19 16-0410 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable.....	6,189.69	1,674.42
For Work In Restricted Working Space, Add	837.21	
26 05 19 16-0411 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable.....	7,309.87	1,897.85
For Work In Restricted Working Space, Add	948.93	
26 05 19 16-0412 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable.....	9,339.14	2,218.08
For Work In Restricted Working Space, Add	1,109.04	
26 05 19 16-0413 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable.....	10,817.45	2,592.38
For Work In Restricted Working Space, Add	1,296.19	
26 05 19 16-0414 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable.....	13,071.74	3,030.02
For Work In Restricted Working Space, Add	1,515.01	
26 05 19 16-0415 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable.....	1,926.99	711.61
For Work In Restricted Working Space, Add	355.80	
26 05 19 16-0416 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable.....	2,394.34	780.40
For Work In Restricted Working Space, Add	389.96	
26 05 19 16-0417 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable.....	2,910.09	889.50
For Work In Restricted Working Space, Add	444.75	
26 05 19 16-0418 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable.....	3,375.71	964.94
For Work In Restricted Working Space, Add	482.47	
26 05 19 16-0419 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable.....	4,561.04	1,211.16
For Work In Restricted Working Space, Add	605.58	
26 05 19 16-0420 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable.....	5,400.04	1,355.61
For Work In Restricted Working Space, Add	677.81	
26 05 19 16-0421 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable.....	6,292.63	1,581.19
For Work In Restricted Working Space, Add	790.59	
26 05 19 16-0422 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable.....	7,432.36	1,808.19
For Work In Restricted Working Space, Add	904.10	
26 05 19 16-0423 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable.....	8,806.52	2,049.43
For Work In Restricted Working Space, Add	1,024.71	
26 05 19 16-0424 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable.....	11,327.16	2,395.27
For Work In Restricted Working Space, Add	1,197.64	



Electrical		26
Common Work Results for Electrical		26 05
Low-Voltage Electrical Power Conductors and Cables		26 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0425 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	13,111.63 1,399.73	2,799.46
26 05 19 16-0426 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	15,882.69 1,636.34	3,272.68
26 05 19 16-0427 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011) Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0428 ACSR Cable (26 05 19 16-0427)		
26 05 19 16-0429 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	1,920.03	589.32
26 05 19 16-0430 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,054.41	611.92
26 05 19 16-0431 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,245.79	635.48
26 05 19 16-0432 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,380.52	658.50
26 05 19 16-0433 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,706.08	680.82
26 05 19 16-0434 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,175.07	771.78
26 05 19 16-0435 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,705.20	860.70
26 05 19 16-0436 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	4,301.73	950.84
26 05 19 16-0437 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....	4,927.77	1,221.94
26 05 19 16-0438 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	5,593.15	1,401.68
26 05 19 16-0439 All Aluminum Conductors (26 05 19 16-0427)		
26 05 19 16-0440 MLF 795.0 ACSR Conductor Aluminum	37,993.34	11,525.17
26 05 19 16-0441 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0442 Bare Stranded Conductor (26 05 19 16-0441)		
26 05 19 16-0443 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,472.99	499.31
26 05 19 16-0444 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,713.77	544.25
26 05 19 16-0445 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,956.00	589.73
26 05 19 16-0446 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,370.58	635.48
26 05 19 16-0447 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,855.45	681.36
26 05 19 16-0448 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,042.73	817.27
26 05 19 16-0449 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,636.43	907.81
26 05 19 16-0450 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,279.35	996.73
26 05 19 16-0451 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,034.55	1,182.19
26 05 19 16-0452 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,514.10	1,359.19
26 05 19 16-0453 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,162.53	1,540.44
26 05 19 16-0454 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	11,558.25	1,815.49
26 05 19 16-0455 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	11,839.23	1,911.07
26 05 19 16-0456 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	14,667.74	2,001.35
26 05 19 16-0457 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,171.34	2,083.46
26 05 19 16-0458 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	18,776.79	2,172.37
26 05 19 16-0459 Insulated Stranded Conductor (26 05 19 16-0441)		
26 05 19 16-0460 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,580.59	499.31
26 05 19 16-0461 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,852.61	544.25
26 05 19 16-0462 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,230.08	589.73
26 05 19 16-0463 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,422.46	635.48
26 05 19 16-0464 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,934.60	681.36
26 05 19 16-0465 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,928.42	817.27
26 05 19 16-0466 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,625.02	907.81
26 05 19 16-0467 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,438.51	996.73
26 05 19 16-0468 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,545.78	1,182.19
26 05 19 16-0469 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	7,832.81	1,359.19
26 05 19 16-0470 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,215.68	1,540.44
26 05 19 16-0471 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,233.06	1,815.49
26 05 19 16-0472 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	12,700.00	1,911.07
26 05 19 16-0473 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,899.90	2,001.35
26 05 19 16-0474 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	15,534.70	2,083.46
26 05 19 16-0475 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	17,422.68	2,172.37
26 05 19 16-0476 Bare Solid Conductor (26 05 19 16-0441)		
26 05 19 16-0477 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,472.99	499.31
26 05 19 16-0478 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,956.00	589.73
26 05 19 16-0479 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,370.58	635.48
26 05 19 16-0480 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,822.74	681.36
26 05 19 16-0481 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0482 Multi-Conductor Cords (26 05 19 16-0481) Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0483 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0482) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 05 19 16-0484	300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0483)				
26 05 19 16-0485	#18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0484)				
26 05 19 16-0486	LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.14		0.52	
26 05 19 16-0487	LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.18		0.52	
26 05 19 16-0488	LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.28		0.52	
26 05 19 16-0489	#16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0484)				
26 05 19 16-0490	LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.34		0.52	
26 05 19 16-0491	LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.40		0.52	
26 05 19 16-0492	LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.48		0.52	
26 05 19 16-0493	#14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0484)				
26 05 19 16-0494	LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.45		0.52	
26 05 19 16-0495	LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.55		0.52	
26 05 19 16-0496	LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.73		0.52	
26 05 19 16-0497	#12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0484)				
26 05 19 16-0498	LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.61		0.52	
26 05 19 16-0499	LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.72		0.52	
26 05 19 16-0500	LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.88		0.52	
26 05 19 16-0501	#10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0484)				
26 05 19 16-0502	LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.00		0.65	
26 05 19 16-0503	LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.08		0.65	
26 05 19 16-0504	LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.20		0.65	
26 05 19 16-0505	600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0483)				
26 05 19 16-0506	#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)				
26 05 19 16-0507	LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.18		0.52	
26 05 19 16-0508	LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.25		0.52	
26 05 19 16-0509	LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.34		0.52	
26 05 19 16-0510	LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.15		0.70	
26 05 19 16-0511	LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.32		0.72	
26 05 19 16-0512	LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.45		0.74	
26 05 19 16-0513	LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.65		0.76	
26 05 19 16-0514	LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.00		0.80	
26 05 19 16-0515	LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.36		0.82	
26 05 19 16-0516	LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.27		0.83	
26 05 19 16-0517	LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.35		0.85	
26 05 19 16-0518	LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.47		0.87	
26 05 19 16-0519	LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.92		0.89	
26 05 19 16-0520	LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.06		0.91	
26 05 19 16-0521	LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.34		0.97	
26 05 19 16-0522	#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)				
26 05 19 16-0523	LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.40		0.52	
26 05 19 16-0524	LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.46		0.52	
26 05 19 16-0525	LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.57		0.52	
26 05 19 16-0526	LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.22		0.70	
26 05 19 16-0527	LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.42		0.72	
26 05 19 16-0528	LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.61		0.74	
26 05 19 16-0529	LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.85		0.76	
26 05 19 16-0530	LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.96		0.78	
26 05 19 16-0531	LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.25		0.80	
26 05 19 16-0532	LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.72		0.82	
26 05 19 16-0533	LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.96		0.83	
26 05 19 16-0534	LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.41		0.85	



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0535	LF	18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.03	0.87
26 05 19 16-0536	LF	20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.58	0.89
26 05 19 16-0537	LF	24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.63	0.91
26 05 19 16-0538	LF	26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.24	0.93
26 05 19 16-0539	LF	30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.36	0.97
26 05 19 16-0540 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)				
26 05 19 16-0541	LF	2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.56	0.52
26 05 19 16-0542	LF	3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.63	0.52
26 05 19 16-0543	LF	4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.80	0.52
26 05 19 16-0544	LF	5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.75	0.70
26 05 19 16-0545	LF	6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.22	0.72
26 05 19 16-0546	LF	7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.39	0.74
26 05 19 16-0547	LF	8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.76	0.76
26 05 19 16-0548	LF	9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.02	0.78
26 05 19 16-0549	LF	10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.45	0.80
26 05 19 16-0550	LF	12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.85	0.82
26 05 19 16-0551	LF	14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.31	0.83
26 05 19 16-0552	LF	16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.28	0.85
26 05 19 16-0553	LF	20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.01	0.89
26 05 19 16-0554	LF	24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.17	0.91
26 05 19 16-0555	LF	30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.60	0.97
26 05 19 16-0556 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)				
26 05 19 16-0557	LF	2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.73	0.52
26 05 19 16-0558	LF	3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.86	0.52
26 05 19 16-0559	LF	4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.98	0.52
26 05 19 16-0560	LF	5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.08	0.70
26 05 19 16-0561	LF	6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.52	0.72
26 05 19 16-0562	LF	7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.96	0.74
26 05 19 16-0563	LF	8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.43	0.76
26 05 19 16-0564	LF	9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.77	0.78
26 05 19 16-0565	LF	10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.36	0.80
26 05 19 16-0566	LF	12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.04	0.82
26 05 19 16-0567	LF	14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.67	0.83
26 05 19 16-0568	LF	16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.30	0.85
26 05 19 16-0569	LF	18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.62	0.87
26 05 19 16-0570	LF	20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.71	0.89
26 05 19 16-0571	LF	24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.82	0.91
26 05 19 16-0572	LF	26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.94	0.93
26 05 19 16-0573	LF	28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.30	0.95
26 05 19 16-0574	LF	30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.71	0.97
26 05 19 16-0575 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)				
26 05 19 16-0576	LF	2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.97	0.65
26 05 19 16-0577	LF	3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.08	0.65
26 05 19 16-0578	LF	4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.19	0.65
26 05 19 16-0579	LF	5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.73	0.70
26 05 19 16-0580	LF	6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.20	0.72
26 05 19 16-0581	LF	7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.86	0.74
26 05 19 16-0582	LF	10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.17	0.80
26 05 19 16-0583	LF	12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.00	0.82
26 05 19 16-0584	LF	16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.80	0.85

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0585	LF	20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.58	0.89
26 05 19 16-0586		#8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0587	LF	3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.67	0.78
26 05 19 16-0588	LF	4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.96	0.91
26 05 19 16-0589	LF	5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.19	0.91
26 05 19 16-0590		#6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0591	LF	3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.04	0.91
26 05 19 16-0592	LF	4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.06	1.04
26 05 19 16-0593	LF	5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.26	1.29
26 05 19 16-0594		#4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0595	LF	3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.89	1.29
26 05 19 16-0596	LF	4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.61	1.42
26 05 19 16-0597	LF	5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.29	1.55
26 05 19 16-0598		#2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0505)		
26 05 19 16-0599	LF	3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	12.38	2.60
26 05 19 16-0600	LF	4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.70	3.24
26 05 19 16-0601	LF	5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.33	4.28
26 05 19 16-0602		300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0483)		
26 05 19 16-0603		#18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0602)		
26 05 19 16-0604	LF	2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.49	0.52
26 05 19 16-0605	LF	3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.59	0.52
26 05 19 16-0606	LF	4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.79	0.52
26 05 19 16-0607		#16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0602)		
26 05 19 16-0608	LF	2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.55	0.52
26 05 19 16-0609	LF	3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.72	0.52
26 05 19 16-0610	LF	4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.80	0.52
26 05 19 16-0611		#14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0602)		
26 05 19 16-0612	LF	2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.97	0.52
26 05 19 16-0613	LF	3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.66	0.52
26 05 19 16-0614	LF	4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.32	0.65
26 05 19 16-0615		600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0483)		
26 05 19 16-0616		#18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0615)		
26 05 19 16-0617	LF	2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	1.92	0.52
26 05 19 16-0618	LF	3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.21	0.52
26 05 19 16-0619	LF	4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.51	0.52
26 05 19 16-0620		#16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0615)		
26 05 19 16-0621	LF	2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.02	0.52
26 05 19 16-0622	LF	3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.32	0.52
26 05 19 16-0623	LF	4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.78	0.52
26 05 19 16-0624	LF	5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.02	0.65



Electrical		26
Common Work Results for Electrical		26 05
Low-Voltage Electrical Power Conductors and Cables		26 05 19

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 19 16-0625	#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0615)			
26 05 19 16-0626	LF	3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.39	0.52
26 05 19 16-0627	LF	4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.77	0.52
26 05 19 16-0628	LF	5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.08	0.65
26 05 19 16-0629	#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0615)			
26 05 19 16-0630	LF	3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.74	0.52
26 05 19 16-0631	LF	4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.08	0.52
26 05 19 16-0632	LF	5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.43	0.65
26 05 19 16-0633	#10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0615)			
26 05 19 16-0634	LF	3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.12	0.65
26 05 19 16-0635	LF	4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.42	0.65
26 05 19 16-0636	LF	5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.74	0.65
26 05 19 16-0637	Multi-Conductor Type SEOW Cord (26 05 19 16-0482) Note: Includes thermoplastic elastomeric (TPE) insulation.			
26 05 19 16-0638	600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0637)			
26 05 19 16-0639	#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0638)			
26 05 19 16-0640	LF	3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.56	0.52
26 05 19 16-0641	LF	4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.68	0.52
26 05 19 16-0642	LF	5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.36	0.65
26 05 19 16-0643	#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0638)			
26 05 19 16-0644	LF	3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.91	0.52
26 05 19 16-0645	LF	4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.13	0.52
26 05 19 16-0646	LF	5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.91	0.65
26 05 19 16-0647	#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0638)			
26 05 19 16-0648	LF	3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.27	0.52
26 05 19 16-0649	LF	4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.56	0.52
26 05 19 16-0650	LF	5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.14	0.65
26 05 19 16-0651	#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0638)			
26 05 19 16-0652	LF	3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.80	0.65
26 05 19 16-0653	LF	4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.14	0.65
26 05 19 16-0654	LF	5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.35	0.65
26 05 19 16-0655	Multi-Conductor Type W Cord (26 05 19 16-0482) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.			
26 05 19 16-0656	2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0655)			
26 05 19 16-0657	#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0656)			
26 05 19 16-0658	LF	3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	3.96	0.78
26 05 19 16-0659	LF	4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.23	0.91
26 05 19 16-0660	LF	5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.92	0.91
26 05 19 16-0661	#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0656)			
26 05 19 16-0662	LF	3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.27	0.91
26 05 19 16-0663	LF	4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.07	1.04
26 05 19 16-0664	LF	5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.26	1.29
26 05 19 16-0665	#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0656)			
26 05 19 16-0666	LF	3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.53	0.91
26 05 19 16-0667	LF	4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.53	1.04
26 05 19 16-0668	LF	5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.30	1.29

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 19 16-0669	Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0481)		
26 05 19 16-0670	Cord Grips (26 05 19 16-0669)		
26 05 19 16-0671	EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	82.44	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.60	
26 05 19 16-0672	EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	82.86	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.60	
26 05 19 16-0673	Cable Reels (26 05 19 16-0669)		
	Note: Includes handling, mounting, electrical connections and installing cord. See CSI section 26 05 19 16-0481 for cords.		
26 05 19 16-0674	EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	678.76	64.89
26 05 19 16-0675	EA 50', 10-4, SEOOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,858.27	64.89
26 05 19 16-0676	EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,392.02	64.89
26 05 19 16-0677	Extension Cords For Cable Reel (26 05 19 16-0669)		
26 05 19 16-0678	EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord	213.73	
26 05 19 16-0679	EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord	303.82	
26 05 19 16-0680	Plugs And Connector Bodies (26 05 19 16-0669)		
	Note: Up to 277 volt		
26 05 19 16-0681	NEMA Twist-Lock Plugs (26 05 19 16-0680)		
26 05 19 16-0682	EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	84.94	
26 05 19 16-0683	EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	86.49	
26 05 19 16-0684	EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	79.99	
26 05 19 16-0685	EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	84.75	
26 05 19 16-0686	EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	107.05	
26 05 19 16-0687	EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	113.10	
26 05 19 16-0688	EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	119.01	
26 05 19 16-0689	EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	107.95	
26 05 19 16-0690	EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	122.48	
26 05 19 16-0691	EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	125.31	
26 05 19 16-0692	EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	128.91	
26 05 19 16-0693	NEMA Twist-Lock Connector Bodies (26 05 19 16-0680)		
26 05 19 16-0694	EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	89.31	
26 05 19 16-0695	EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	94.78	
26 05 19 16-0696	EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	83.27	
26 05 19 16-0697	EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	107.95	
26 05 19 16-0698	EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	123.89	
26 05 19 16-0699	EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	131.61	
26 05 19 16-0700	EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	157.57	
26 05 19 16-0701	EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	151.02	
26 05 19 16-0702	EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	183.54	
26 05 19 16-0703	EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	192.15	
26 05 19 16-0704	EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	182.77	
26 05 19 16-0705	Watertight Pin And Sleeve Plug (26 05 19 16-0680)		
26 05 19 16-0706	EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	287.06	38.94
26 05 19 16-0707	EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	290.09	38.94
26 05 19 16-0708	EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	313.65	38.94
26 05 19 16-0709	EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	314.35	42.83
26 05 19 16-0710	EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	309.78	42.83
26 05 19 16-0711	EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	311.14	42.83
26 05 19 16-0712	EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	437.37	47.89
26 05 19 16-0713	EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	425.99	47.89
26 05 19 16-0714	EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	474.87	47.89
26 05 19 16-0715	EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	466.80	52.56
26 05 19 16-0716	EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	447.04	52.56
26 05 19 16-0717	EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	460.63	52.56
26 05 19 16-0718	EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	594.13	62.30
26 05 19 16-0719	EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	604.97	62.30
26 05 19 16-0720	EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	579.27	62.30
26 05 19 16-0721	EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	659.62	69.30
26 05 19 16-0722	EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	642.76	69.30
26 05 19 16-0723	EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	650.05	69.30
26 05 19 16-0724	EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	815.00	77.87
26 05 19 16-0725	EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	856.86	77.87
26 05 19 16-0726	EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	835.84	85.67
26 05 19 16-0727	EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	821.54	85.67
26 05 19 16-0728	EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	829.26	85.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 05 19 16-0729	Watertight Pin And Sleeve Connector (26 05 19 16-0680)		
26 05 19 16-0730	EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	304.51	38.94
26 05 19 16-0731	EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	306.61	38.94
26 05 19 16-0732	EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	360.86	38.94
26 05 19 16-0733	EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	358.31	42.83
26 05 19 16-0734	EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	352.80	42.83
26 05 19 16-0735	EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	357.78	42.83
26 05 19 16-0736	EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	447.79	47.89
26 05 19 16-0737	EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	447.68	47.89
26 05 19 16-0738	EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	466.39	47.89
26 05 19 16-0739	EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	461.72	52.56
26 05 19 16-0740	EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	465.58	52.56
26 05 19 16-0741	EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	461.51	52.56
26 05 19 16-0742	EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	701.06	62.30
26 05 19 16-0743	EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	678.15	62.30
26 05 19 16-0744	EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	664.49	62.30
26 05 19 16-0745	EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	723.27	69.30
26 05 19 16-0746	EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	743.19	69.30
26 05 19 16-0747	EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	744.65	69.30
26 05 19 16-0748	EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	932.29	77.87
26 05 19 16-0749	EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	958.57	77.87
26 05 19 16-0750	EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	1,035.88	85.67
26 05 19 16-0751	EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	999.78	85.67
26 05 19 16-0752	EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	1,012.09	85.67

26 05 19 16-0753	Accessories (26 05 19 16-0659)		
26 05 19 16-0754	EA 1/2" Straight Steel Cord Connector	65.38	12.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0755	EA 1/2" Straight Nylon Cord Connector	39.18	9.73
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 19 16-0756	EA 1/2" 90 Degree Steel Cord Connector	74.81	16.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 05 19 16-0757	EA 1/2" 90 Degree Nylon Cord Connector	47.14	12.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0758	EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh	73.84	16.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 05 19 16-0759	EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh	127.90	19.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68	
26 05 19 16-0760	EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh	46.38	12.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0761	EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh	78.40	16.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 05 19 16-0762	EA 3/4" Straight Steel Cord Connector	68.15	12.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0763	EA 3/4" Straight Nylon Cord Connector	40.56	9.73
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 19 16-0764	EA 3/4" 90 Degree Steel Cord Connector	83.47	16.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.73	
26 05 19 16-0765	EA 3/4" 90 Degree Nylon Cord Connector	51.47	12.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0766	EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh	83.23	19.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68	
26 05 19 16-0767	EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh	99.01	22.71
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.63	
26 05 19 16-0768	EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh	55.79	16.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 05 19 16-0769	EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh	67.39	19.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68	
26 05 19 16-0770	EA 1" Straight Steel Cord Connector	85.95	12.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0771	EA 1" Straight Nylon Cord Connector	49.46	9.73
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 19 16-0772	EA 1" 90 Degree Steel Cord Connector	95.23	16.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.73	
26 05 19 16-0773	EA 1" 90 Degree Nylon Cord Connector	57.35	12.98
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 19 16-0774	EA 1" Straight Steel Cord Connector With Strain Relief Mesh	101.92	19.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68	
26 05 19 16-0775	EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh	111.35	22.71
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.63	
26 05 19 16-0776	EA 1" Straight Nylon Cord Connector With Strain Relief Mesh	65.27	16.22
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 05 19 16-0777	EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh	75.41	19.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68	

26 05 23 Control-Voltage Electrical Power Cables (26 05)

26 05 23 00-0001	Cable For HVAC System Controls (26 05 23)
26 05 23 00-0002	Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)
Note: For surface or conduit installation.	

26 Electrical**26 05 Common Work Results for Electrical****26 05 23 Control-Voltage Electrical Power Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable	490.84	151.22
26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable	554.73	159.28
26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable	599.42	168.41
26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable	706.50	175.53
26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable	739.48	183.83
26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable	810.15	191.48
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable	872.06	199.13
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable	942.91	207.08
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable	1,010.41	213.29
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable	527.53	151.22
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable	620.19	159.28
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable	703.28	168.41
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable	749.37	175.53
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable	825.60	183.83
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable	849.69	191.48
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable	932.40	199.13
26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable	1,087.70	207.08
26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable	1,188.99	213.29

26 05 26 Grounding and Bonding for Electrical Systems (26 05)**26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)****26 05 26 00-0002 Single Conductor (26 05 26 00-0001)****26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)**

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor	643.89	241.99
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor	848.19	241.99
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor	1,053.46	291.49
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor	1,443.67	291.49
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor	1,933.79	351.99
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor	3,033.67	351.99
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor	3,509.02	423.49
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor	4,115.42	423.49
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor	5,760.04	533.48
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor	7,097.84	533.48
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor	7,534.68	709.48
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor	9,667.79	709.48
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor	9,702.09	819.48
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor	13,062.19	819.48
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor	17,822.61	1,011.97

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor	1,199.65	329.99
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor	1,279.18	329.99
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor	1,638.93	329.99
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor	1,861.40	571.99
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor	2,515.94	571.99
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor	3,552.60	571.99
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor	4,294.04	1,000.98
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor	5,239.10	1,000.98
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor	6,140.93	1,000.98
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor	7,314.71	1,000.98
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor	8,627.06	1,308.97
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor	10,431.07	1,308.97
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor	12,149.55	1,308.97
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor	14,224.83	2,034.94
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor	18,570.96	2,034.94

26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor	643.89	241.99
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor	848.19	241.99
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor	1,053.46	291.49
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor	1,443.67	291.49
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor	1,933.79	351.99
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor	3,033.67	351.99
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor	4,115.42	423.49
26 05 26 00-0043 MLF 2/0 AWG Copper Bare Single Solid Conductor	5,216.24	533.48
26 05 26 00-0044 MLF 3/0 AWG Copper Bare Single Solid Conductor	6,316.75	533.48
26 05 26 00-0045 MLF 4/0 AWG Copper Bare Single Solid Conductor	7,534.68	560.98

26 05 26 00-0046 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0047 MLF 8 AWG Aluminum Bare Single Stranded Conductor	863.11	291.49
26 05 26 00-0048 MLF 6 AWG Aluminum Bare Single Stranded Conductor	964.92	291.49
26 05 26 00-0049 MLF 4 AWG Aluminum Bare Single Stranded Conductor	1,123.90	351.99
26 05 26 00-0050 MLF 2 AWG Aluminum Bare Single Stranded Conductor	1,454.32	351.99
26 05 26 00-0051 MLF 1 AWG Aluminum Bare Single Stranded Conductor	1,730.08	423.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0052 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor.....	1,982.51	423.49
26 05 26 00-0053 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor.....	2,277.58	533.48
26 05 26 00-0054 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor.....	2,651.26	533.48
26 05 26 00-0055 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor.....	3,143.43	709.48
26 05 26 00-0056 MLF 250 MCM Aluminum Bare Single Stranded Conductor.....	3,562.92	709.48
26 05 26 00-0057 MLF 300 MCM Aluminum Bare Single Stranded Conductor.....	4,358.31	819.48
26 05 26 00-0058 MLF 350 MCM Aluminum Bare Single Stranded Conductor.....	5,026.06	819.48
26 05 26 00-0059 MLF 500 MCM Aluminum Bare Single Stranded Conductor.....	5,887.43	1,011.97
26 05 26 00-0060 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)		
26 05 26 00-0061 MLF 8 AWG Aluminum Bare Single Solid Conductor.....	863.11	291.49
26 05 26 00-0062 MLF 6 AWG Aluminum Bare Single Solid Conductor.....	964.92	291.49
26 05 26 00-0063 MLF 4 AWG Aluminum Bare Single Solid Conductor.....	1,123.90	351.99
26 05 26 00-0064 MLF 2 AWG Aluminum Bare Single Solid Conductor.....	1,454.32	351.99
26 05 26 00-0065 MLF 1 AWG Aluminum Bare Single Solid Conductor.....	1,685.69	560.98
26 05 26 00-0066 MLF 1/0 AWG Aluminum Bare Single Solid Conductor.....	1,982.51	560.98
26 05 26 00-0067 MLF 2/0 AWG Aluminum Bare Single Solid Conductor.....	2,167.61	533.48
26 05 26 00-0068 MLF 3/0 AWG Aluminum Bare Single Solid Conductor.....	2,429.83	533.48
26 05 26 00-0069 MLF 4/0 AWG Aluminum Bare Single Solid Conductor.....	3,143.43	709.48
26 05 26 00-0070 MLF 250 MCM Aluminum Bare Single Solid Conductor.....	3,562.92	709.48
26 05 26 00-0071 MLF 300 MCM Aluminum Bare Single Solid Conductor.....	4,358.31	819.48
26 05 26 00-0072 MLF 350 MCM Aluminum Bare Single Solid Conductor.....	5,026.06	819.48
26 05 26 00-0073 MLF 500 MCM Aluminum Bare Single Solid Conductor.....	5,887.43	1,011.97
26 05 26 00-0074 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0075 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.09	0.89
26 05 26 00-0076 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.41	0.98
26 05 26 00-0077 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	4.05	1.13
26 05 26 00-0078 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	4.08	1.15
26 05 26 00-0079 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	4.28	1.20
26 05 26 00-0080 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0081 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	149.42	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	257.50	38.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 05 26 00-0083 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	329.41	38.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 05 26 00-0084 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	400.35	38.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	346.59	42.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.20	
26 05 26 00-0086 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	450.05	42.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.20	
26 05 26 00-0087 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	539.95	42.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.20	
26 05 26 00-0088 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	450.97	53.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.12	
26 05 26 00-0089 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	542.33	64.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 05 26 00-0090 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0091 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit.....	199.71	71.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.56	
26 05 26 00-0092 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	246.04	71.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.92	
26 05 26 00-0093 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	360.21	110.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.00	
26 05 26 00-0094 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	532.21	110.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.11	
26 05 26 00-0095 Ground Rods (26 05 26)		
26 05 26 00-0096 Copper-Clad Ground Rods (26 05 26 00-0095)		
26 05 26 00-0097 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	107.47	97.34
26 05 26 00-0098 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	111.60	97.34
26 05 26 00-0099 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	128.27	97.34
26 05 26 00-0100 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	126.24	97.34
26 05 26 00-0101 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	131.41	97.34
26 05 26 00-0102 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	152.24	97.34
26 05 26 00-0103 Copper Grounding Shaft (26 05 26 00-0095)		
26 05 26 00-0104 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	373.49	97.34

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
26 05 26 00-0105	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	464.76		97.34
26 05 26 00-0106	EA	2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	721.44		97.34
26 05 26 00-0107 Ground Access Wells (26 05 26 00-0095)					
26 05 26 00-0108 Precast Ground Access Wells (26 05 26 00-0107)					
26 05 26 00-0109	EA	8" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	297.65		
26 05 26 00-0110	EA	10" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	308.65		
26 05 26 00-0111	EA	12" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	894.67		
26 05 26 00-0112	EA	18" Diameter x 24" Deep Precast Ground Access Well Note: With cast iron grate.	905.67		
26 05 26 00-0113 Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0107)					
26 05 26 00-0114	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	583.43		
26 05 26 00-0115	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	710.40		
26 05 26 00-0116	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,561.40		
26 05 26 00-0117	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	442.64		
26 05 26 00-0118	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	535.30		
26 05 26 00-0119	EA	18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,396.96		
26 05 26 00-0120	EA	8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	254.94		
26 05 26 00-0121	EA	10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	350.36		
26 05 26 00-0122	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	417.00		
26 05 26 00-0123	EA	8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	207.62		
26 05 26 00-0124	EA	10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	323.15		
26 05 26 00-0125	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	483.23		
26 05 26 00-0126	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	666.20		
26 05 26 00-0127	EA	8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	463.12		
26 05 26 00-0128	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	498.20		
26 05 26 00-0129	EA	10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	891.02		
26 05 26 00-0130	EA	10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	1,125.22		
26 05 26 00-0131	EA	12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	495.88		
26 05 26 00-0132	EA	12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	676.09		
26 05 26 00-0133	EA	12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy-duty.	668.20		
26 05 26 00-0134 Polymer Concrete Ground Access Well (26 05 26 00-0107)					
26 05 26 00-0135	EA	12" x 12" x 12" Polymer Concrete Ground Access Well	564.48		
26 05 26 00-0136	EA	12" x 12" x 12" Heavy-Duty Polymer Concrete Ground Access Well	619.25		
26 05 26 00-0137	EA	12" x 12" x 18" Polymer Concrete Ground Access Well	622.00		
26 05 26 00-0138	EA	12" x 12" x 18" Heavy-Duty Polymer Concrete Ground Access Well	682.25		
26 05 26 00-0139	EA	12" x 12" x 24" Polymer Concrete Ground Access Well	681.73		
26 05 26 00-0140	EA	12" x 12" x 24" Heavy-Duty Polymer Concrete Ground Access Well	747.98		
26 05 26 00-0141	EA	13" x 24" x 18" Polymer Concrete Ground Access Well	909.54		
26 05 26 00-0142	EA	13" x 24" x 18" Heavy-Duty Polymer Concrete Ground Access Well	999.91		
26 05 26 00-0143 High-Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0107)					
26 05 26 00-0144	EA	9" Diameter x 10" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	205.75		
26 05 26 00-0145	EA	14" Diameter x 18" Deep High-Density Polyethylene (HDPE) Ground Access Well Note: With cover.	286.77		
26 05 26 00-0146 Clay Tile Ground Access Wells (26 05 26 00-0107)					
26 05 26 00-0147	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	325.15		
26 05 26 00-0148	EA	8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	341.91		
26 05 26 00-0149	EA	Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well	103.71		



Electrical		26
Common Work Results for Electrical		26 05
Grounding and Bonding for Electrical Systems		26 05 26

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0150	Ground Rod Clamps And Fittings (26 05 26)		
26 05 26 00-0151	Bronze Ground Rod Clamp (26 05 26 00-0150)		
26 05 26 00-0152	EA 1/2" Bronze Ground Rod Clamp	25.32	14.67
26 05 26 00-0153	EA 5/8" Bronze Ground Rod Clamp	26.36	14.67
26 05 26 00-0154	EA 3/4" Bronze Ground Rod Clamp	27.84	14.67
26 05 26 00-0155	Bronze Pipe Clamps (26 05 26 00-0150)		
26 05 26 00-0156	EA 1/2" To 1" Bronze Pipe Ground Clamps	34.25	24.41
26 05 26 00-0157	EA 1-1/4" To 2" Bronze Ground Clamps For Pipe	42.93	29.20
26 05 26 00-0158	EA 2-1/2" To 3" Bronze Ground Clamps For Pipe	60.45	34.14
26 05 26 00-0159	EA 2-1/2" To 4" Bronze Ground Clamps For Pipe	74.71	43.87
26 05 26 00-0160	EA 4" To 6" Bronze Ground Clamps For Pipe	112.98	63.34
26 05 26 00-0161	Grounding Fittings (26 05 26 00-0150)		
26 05 26 00-0162	Embedded Fittings (26 05 26 00-0161)		
26 05 26 00-0163	EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	170.28	
26 05 26 00-0164	EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	179.71	
26 05 26 00-0165	EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	196.45	
26 05 26 00-0166	EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice	170.44	
26 05 26 00-0167	EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice	204.25	
26 05 26 00-0168	EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice	239.43	
26 05 26 00-0169	EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice	269.48	
26 05 26 00-0170	Ground Rod Receptacle (26 05 26 00-0161)		
26 05 26 00-0171	EA 1/2" Ground Rod Receptacle	366.17	134.98
26 05 26 00-0172	EA 5/8" Ground Rod Receptacle	382.04	138.79
26 05 26 00-0173	EA 3/4" Ground Rod Receptacle	398.31	142.56
26 05 26 00-0174	Ground Kits For Circuit Breaker Panels (26 05 26 00-0161)		
26 05 26 00-0175	EA 14-8 AWG Copper Ground Kit	82.66	32.45
26 05 26 00-0176	EA 12-8 AWG Aluminum Ground Kit	73.53	32.45
26 05 26 00-0177	EA 14-4 AWG Copper Ground Kit	90.59	32.45
26 05 26 00-0178	EA 12-4 AWG Aluminum Ground Kit	79.58	32.45
26 05 26 00-0179	Insulated Grounding Bars (26 05 26 00-0150)		
26 05 26 00-0180	EA 1/2" x 4" x 10" Insulated Ground Bar	334.22	32.58
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.40	
26 05 26 00-0181	EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	349.54	32.58
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.40	
26 05 26 00-0182	Ground Conductor Bonding (26 05 26)		
26 05 26 00-0183	Ground Conductor Bonding (26 05 26 00-0182)		
26 05 26 00-0184	Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0183)		
26 05 26 00-0185	EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	150.26	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186	EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	163.24	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187	EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	176.22	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0188	EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	254.09	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0189	Tee, Wye Or Cross Cadweld (26 05 26 00-0183)		
26 05 26 00-0190	EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross	169.73	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0191	EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross	195.68	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0192	EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross	241.11	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0193	EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross	293.02	
	Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0194	Grounding Equipment (26 05 26)		
26 05 26 00-0195	Special Grounding Equipment (26 05 26 00-0194)		
26 05 26 00-0196	Ground Reels And Ground Bus (26 05 26 00-0195)		
26 05 26 00-0197	EA Ground Reel With 50' Of Galvanized Steel Cable	741.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0198	Copper Bars (26 05 26 00-0195)			
26 05 26 00-0199	LF 1/4" x 2" Copper Bar	43.53		
26 05 26 00-0200	Phenolic Insulators (26 05 26 00-0195)			
26 05 26 00-0201	EA 2" x 2" x 1" Long Phenolic Insulators	33.07		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79		
26 05 26 00-0202	Grounding Studs (26 05 26 00-0195)			
26 05 26 00-0203	EA Ball Grounding Stud	48.04		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62		
26 05 26 00-0204	Equipment Ground Bar Kits (26 05 26 00-0195)			
26 05 26 00-0205	EA Switch Rating 30 Ground Bar Kit	36.62		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79		
26 05 26 00-0206	EA Switch Rating 60 Ground Bar Kit	46.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57		
26 05 26 00-0207	EA Switch Rating 100 Ground Bar Kit	53.61		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74		
26 05 26 00-0208	EA Switch Rating 200 Ground Bar Kit	90.45		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68		
26 05 26 00-0209	Panelboard Ground Bar Kits (26 05 26 00-0195)			
26 05 26 00-0210	EA Panelboard Ground Bar Kit	127.59	9.73	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74		
26 05 26 00-0211	Circuit Breaker Ground Bar Kits (26 05 26 00-0195)			
26 05 26 00-0212	EA 3 Circuit, Ground Bar Kit	30.13	5.84	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84		
26 05 26 00-0213	EA 4 Circuit, Ground Bar Kit	29.64	5.84	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84		
26 05 26 00-0214	EA 7 Circuit, Ground Bar Kit	30.46	5.84	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84		
26 05 26 00-0215	EA 12 Circuit, Ground Bar Kit	34.54	6.62	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62		
26 05 26 00-0216	EA 20 Circuit, Ground Bar Kit	39.26	7.40	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.40		
26 05 26 00-0217	EA 24 Circuit, Ground Bar Kit	43.33	8.18	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.18		
26 05 26 00-0218	EA 30 Circuit, Ground Bar Kit	48.54	9.35	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35		
26 05 26 00-0219	EA 54 Circuit, Ground Bar Kit	56.19	10.90	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.90		
26 05 26 00-0220	EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	59.89	8.18	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.18		
26 05 26 00-0221	EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	66.42	9.35	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35		
26 05 26 00-0222	EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug	74.23	10.90	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.90		
26 05 29	Hangers and Supports for Electrical Systems (26 05)			
26 05 29 00-0001	Metal Framing Channel And Fittings (26 05 29)			
	See CSI section 05 43 00 00-0001 for additional unistrut fittings.			
26 05 29 00-0002	Metal Framing Channel (26 05 29 00-0001)			
	Note: Excludes fasteners and accessories.			
26 05 29 00-0003	Steel Unistrut Channel (26 05 29 00-0002)			
26 05 29 00-0004	EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	21.20	7.12	
	For Galvanizing, Add	0.98		
	For Powder Coating, Add	0.87		
26 05 29 00-0005	EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	30.56	9.48	
	For Galvanizing, Add	1.97		
	For Powder Coating, Add	1.74		
26 05 29 00-0006	EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	39.90	11.27	
	For Galvanizing, Add	2.95		
	For Powder Coating, Add	2.61		
26 05 29 00-0007	EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	49.26	13.05	
	For Galvanizing, Add	3.94		
	For Powder Coating, Add	3.48		
26 05 29 00-0008	LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	11.14	2.68	
	For Galvanizing, Add	0.98		
	For Powder Coating, Add	0.87		
26 05 29 00-0009	EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	22.98	7.12	
	For Galvanizing, Add	1.29		
	For Powder Coating, Add	1.14		



Electrical		26
Common Work Results for Electrical		26 05
Hangers and Supports for Electrical Systems		26 05 29

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 29 00-0010	EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	34.12	2.57 2.27	9.48
26 05 29 00-0011	EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	45.23	3.86 3.41	11.27
26 05 29 00-0012	EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	56.36	5.15 4.54	13.05
26 05 29 00-0013	LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	12.92	1.29 1.14	2.68
26 05 29 00-0014	EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	24.82	1.60 1.41	7.12
26 05 29 00-0015	EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	37.80	3.20 2.82	9.48
26 05 29 00-0016	EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	50.77	4.80 4.24	11.27
26 05 29 00-0017	EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	63.74	6.40 5.65	13.05
26 05 29 00-0018	LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	14.76	1.60 1.41	2.68
26 05 29 00-0019	EA Up To 1' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	24.20	1.49 1.32	7.12
26 05 29 00-0020	EA >1' To 2' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	36.55	2.99 2.64	9.48
26 05 29 00-0021	EA >2' To 3' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	48.89	4.48 3.95	11.27
26 05 29 00-0022	EA >3' To 4' Cut Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	61.24	5.98 5.27	13.05
26 05 29 00-0023	LF >4' Cut Lengths x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	14.14	1.49 1.32	2.68
26 05 29 00-0024	EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	23.79	1.42 1.26	7.12
26 05 29 00-0025	EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	35.74	2.85 2.51	9.48
26 05 29 00-0026	EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	47.68	4.28 3.77	11.27
26 05 29 00-0027	EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	59.62	5.70 5.03	13.05
26 05 29 00-0028	LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel For Galvanizing, Add For Powder Coating, Add	13.73	1.42 1.26	2.68
26 05 29 00-0029	Stainless Steel Unistrut Channel (26 05 29 00-0002)			
26 05 29 00-0030	304 Stainless Steel Unistrut Channel (26 05 29 00-0029)			
26 05 29 00-0031	EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel EA >1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel EA >2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel EA Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel EA >3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel LF >4' Cut Lengths x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel EA Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel EA >1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel EA >2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel EA >3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel LF >4' Cut Lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	34.48	57.11 79.73 102.36 24.42 37.98 64.12 90.24 116.37 27.92 39.14 66.44 93.71 121.00 29.08 45.18 78.51 111.83 145.15 35.12	7.12 9.48 11.27 13.05 2.68 7.12 9.48 11.27 13.05 2.68 7.12 9.48 11.27 13.05 2.68 7.12 9.48 11.27 13.05 2.68

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 29 00-0051		316 Stainless Steel Unistrut Channel (26 05 29 00-0029)		
26 05 29 00-0052	EA	Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	49.59	7.12
26 05 29 00-0053	EA	>1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	87.34	9.48
26 05 29 00-0054	EA	>2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	125.08	11.27
26 05 29 00-0055	EA	>3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	162.82	13.05
26 05 29 00-0056	LF	>4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	39.53	2.68
26 05 29 00-0057		Aluminum Unistrut Channel (26 05 29 00-0002)		
26 05 29 00-0058	EA	Up To 1' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	20.16	7.12
26 05 29 00-0059	EA	>1' To 2' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	28.48	9.48
26 05 29 00-0060	EA	>2' To 3' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	36.78	11.27
26 05 29 00-0061	EA	>3' To 4' Cut Length x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	45.09	13.05
26 05 29 00-0062	LF	>4' Cut Lengths x 1-5/8" Wide x 13/16" High, 14 Gauge, Aluminum Unistrut Channel	10.10	2.68
26 05 29 00-0063	EA	Up To 1' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	23.26	7.12
26 05 29 00-0064	EA	>1' To 2' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	34.69	9.48
26 05 29 00-0065	EA	>2' To 3' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	46.09	11.27
26 05 29 00-0066	EA	>3' To 4' Cut Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	57.51	13.05
26 05 29 00-0067	LF	>4' Cut lengths x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Aluminum Unistrut Channel	13.20	2.68
26 05 29 00-0068		Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0069		Unistrut Channel Closure Strips And Caps (26 05 29 00-0068)		
26 05 29 00-0070		Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0069)		
26 05 29 00-0071	LF	Steel Raceway Closure Strip, Unistrut Channel Fittings	7.74	0.65
26 05 29 00-0072	EA	Steel End Cap, Unistrut Channel Fittings	5.78	1.63
26 05 29 00-0073		Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0069)		
26 05 29 00-0074	EA	Stainless Steel End Cap For Unistrut Channel	12.29	1.63
26 05 29 00-0075		Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0076		Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0075)		
26 05 29 00-0077	EA	2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	7.58	
26 05 29 00-0078	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	7.53	
26 05 29 00-0079	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting	9.20	
26 05 29 00-0080		Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0075)		
26 05 29 00-0081	EA	2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	17.21	
26 05 29 00-0082	EA	3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	25.43	
26 05 29 00-0083	EA	4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting	32.38	
26 05 29 00-0084		90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0085		Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0084)		
26 05 29 00-0086	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting	7.33	
26 05 29 00-0087	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting	6.12	
26 05 29 00-0088	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	10.66	
26 05 29 00-0089	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting	10.51	
26 05 29 00-0090		Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0084)		
26 05 29 00-0091	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	10.02	
26 05 29 00-0092	EA	2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	12.43	
26 05 29 00-0093	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	10.60	
26 05 29 00-0094	EA	2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	14.89	
26 05 29 00-0095	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	13.64	
26 05 29 00-0096	EA	3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	24.86	
26 05 29 00-0097	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting	14.32	
26 05 29 00-0098	EA	3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting	20.61	
26 05 29 00-0099		60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0100		Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0099)		
26 05 29 00-0101	EA	2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	15.31	
26 05 29 00-0102		U-Connector, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0103		Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0102)		
26 05 29 00-0104	EA	3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	5.32	
26 05 29 00-0105	EA	5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting	5.95	



Electrical		26
Common Work Results for Electrical		26 05
Hangers and Supports for Electrical Systems		26 05 29

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 29 00-0106	Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0102)				
26 05 29 00-0107	EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting		20.46		
26 05 29 00-0108	Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0068)				
26 05 29 00-0109	Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0108)				
26 05 29 00-0110	EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting		15.72		
26 05 29 00-0111	Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0108)				
26 05 29 00-0112	EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting		39.44		
26 05 29 00-0113	Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0068)				
Note: Includes hex screw and nut.					
26 05 29 00-0114	Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113)				
Note: Includes hex screw and nut.					
26 05 29 00-0115	EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.69		1.95	
26 05 29 00-0116	EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.72		1.95	
26 05 29 00-0117	EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	5.86		1.95	
26 05 29 00-0118	EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	7.36		2.60	
26 05 29 00-0119	EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	8.09		2.60	
26 05 29 00-0120	EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	8.17		2.60	
26 05 29 00-0121	EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.98		3.25	
26 05 29 00-0122	EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.62		3.25	
26 05 29 00-0123	EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	11.25		3.25	
26 05 29 00-0124	EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	11.47		3.25	
26 05 29 00-0125	304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113)				
Note: Includes hex screw and nut.					
26 05 29 00-0126	EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	8.31		1.95	
26 05 29 00-0127	EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	9.22		1.95	
26 05 29 00-0128	EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.14		1.95	
26 05 29 00-0129	EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	12.65		2.60	
26 05 29 00-0130	EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	15.20		2.60	
26 05 29 00-0131	EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	15.87		2.60	
26 05 29 00-0132	EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	19.06		3.25	
26 05 29 00-0133	EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	21.33		3.25	
26 05 29 00-0134	EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	22.30		3.25	
26 05 29 00-0135	EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	25.89		3.25	
26 05 29 00-0136	316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0113)				
Note: Includes hex screw and nut.					
26 05 29 00-0137	EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	8.87		1.95	
26 05 29 00-0138	EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.16		1.95	
26 05 29 00-0139	EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	10.53		1.95	
26 05 29 00-0140	EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	12.83		2.60	
26 05 29 00-0141	EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	17.28		2.60	
26 05 29 00-0142	EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	17.51		2.60	
26 05 29 00-0143	EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	20.78		3.25	
26 05 29 00-0144	EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	21.93		3.25	
26 05 29 00-0145	EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	30.13		3.25	
26 05 29 00-0146	EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel	35.14		3.25	
26 05 29 00-0147	Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0068)				
26 05 29 00-0148	Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0147)				
26 05 29 00-0149	EA Set Screw Beam Clamp, Steel Unistrut Channel Fitting	42.50		11.86	
26 05 29 00-0150	EA "C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	28.04		11.86	
26 05 29 00-0151	EA "U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	41.04		11.86	
26 05 29 00-0152	304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0147)				
26 05 29 00-0153	EA "U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting	50.85		11.86	
26 05 29 00-0154	Square Washers For Unistrut Channel (26 05 29 00-0068)				
26 05 29 00-0155	Steel Square Washers For Unistrut Channel (26 05 29 00-0154)				
26 05 29 00-0156	EA 1/2" Bolt Size, Steel, Square Washer For Unistrut Channel	5.33			

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
26 05 29 00-0157		Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0154)			
26 05 29 00-0158	EA	1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel		5.10	
26 05 29 00-0159	EA	1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel		6.35	
26 05 29 00-0160		Strut Braces, Unistrut Channel Fittings (26 05 29 00-0068)			
26 05 29 00-0161	EA	16" Diagonal Steel Bar Brace For Unistrut Channel		43.41	
26 05 29 00-0162		Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0068)			
26 05 29 00-0163	EA	Steel Trolley Track Hanger For Unistrut Channel		53.87	
26 05 29 00-0164		Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0068)			
		Note: Includes hex bolt.			
26 05 29 00-0165		Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0164)			
		Note: Includes hex bolt.			
26 05 29 00-0166	EA	1/4-20, Steel Lock Nut With Spring For Unistrut Channel		8.99	
26 05 29 00-0167	EA	3/8-16, Steel Lock Nut With Spring For Unistrut Channel		9.87	
26 05 29 00-0168	EA	1/2-13, Steel Lock Nut With Spring For Unistrut Channel		10.54	
26 05 29 00-0169	EA	5/8-11, Steel Lock Nut With Spring For Unistrut Channel		14.11	
26 05 29 00-0170		Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0164)			
		Note: Includes hex bolt.			
26 05 29 00-0171	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel		14.56	
26 05 29 00-0172	EA	3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel		15.48	
26 05 29 00-0173	EA	1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel		21.46	
26 05 29 00-0174	EA	5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel		35.41	
26 05 29 00-0175		Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0068)			
		Note: Includes hex bolt.			
26 05 29 00-0176		Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0175)			
		Note: Includes hex bolt.			
26 05 29 00-0177	EA	1/4-20, Steel Lock Nut Without Spring For Unistrut Channel		9.02	
26 05 29 00-0178	EA	3/8-16, Steel Lock Nut Without Spring For Unistrut Channel		10.00	
26 05 29 00-0179	EA	1/2-13, Steel Lock Nut Without Spring For Unistrut Channel		10.59	
26 05 29 00-0180	EA	5/8-11, Steel Lock Nut Without Spring For Unistrut Channel		15.14	
26 05 29 00-0181		Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0175)			
		Note: Includes hex bolt.			
26 05 29 00-0182	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel		10.80	
26 05 29 00-0183	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel		12.82	
26 05 29 00-0184	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel		13.97	
26 05 29 00-0185	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel		34.53	
26 05 29 00-0186		Mounting Assemblies (26 05 29)			
26 05 29 00-0187		Galvanized Steel Mounting Assemblies (26 05 29 00-0186)			
26 05 29 00-0188		Galvanized Steel Back Plate (26 05 29 00-0187)			
26 05 29 00-0189	EA	1/4" x 4' x 4', Galvanized Steel Back Plate, Painted	571.72		77.87
26 05 29 00-0190	EA	3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	140.36		25.96
26 05 29 00-0191	EA	3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	355.49		64.89
26 05 29 00-0192		Aluminum Mounting Assemblies (26 05 29 00-0186)			
26 05 29 00-0193		Aluminum Back Plate (26 05 29 00-0192)			
26 05 29 00-0194	EA	3/16" x 2' x 2' Aluminum Back Plate	464.20		97.34
26 05 29 00-0195	EA	3/16" x 4' x 4' Aluminum Back Plate	1,318.20		97.34
26 05 29 00-0196		Supports (26 05 29)			
26 05 29 00-0197		One Hole Steel Conduit Straps (26 05 29 00-0196)			
26 05 29 00-0198	EA	1/2", One Hole Steel Conduit Strap	4.73		
		For Work In Restricted Working Space, Add	1.25		
		For Installation On Concrete (Includes Drilling And Fastener), Add	1.14		
		For >50 To 100, Deduct	-0.22		
		For >100 To 250, Deduct	-0.44		
		For >250 To 500, Deduct	-0.87		
		For >500, Deduct	-1.30		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0199	EA	3/4"	One Hole Steel Conduit Strap 4.79		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.88	
			For >500, Deduct	-1.31	
26 05 29 00-0200	EA	1"	One Hole Steel Conduit Strap 5.09		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.90	
			For >500, Deduct	-1.34	
26 05 29 00-0201	EA	1-1/4"	One Hole Steel Conduit Strap 5.31		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.36	
26 05 29 00-0202	EA	1-1/2"	One Hole Steel Conduit Strap 5.46		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.38	
26 05 29 00-0203	EA	2"	One Hole Steel Conduit Strap 6.37		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.00	
			For >500, Deduct	-1.47	
26 05 29 00-0204	EA	2-1/2"	One Hole Steel Conduit Strap 7.30		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.07	
			For >500, Deduct	-1.56	
26 05 29 00-0205	EA	3"	One Hole Steel Conduit Strap 7.61		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.59	
26 05 29 00-0206	EA	3-1/2"	One Hole Steel Conduit Strap 9.13		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.20	
			For >500, Deduct	-1.74	
26 05 29 00-0207	EA	4"	One Hole Steel Conduit Strap 10.35		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.30	
			For >500, Deduct	-1.87	
26 05 29 00-0208 One Hole Iron Conduit Straps (26 05 29 00-0196)					
26 05 29 00-0209	EA	1/2"	One Hole Iron Conduit Strap 4.88		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.88	
			For >500, Deduct	-1.32	
26 05 29 00-0210	EA	3/4"	One Hole Iron Conduit Strap 5.03		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.90	
			For >500, Deduct	-1.33	
26 05 29 00-0211	EA	1"	One Hole Iron Conduit Strap 5.29		
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0212	EA		1-1/4", One Hole Iron Conduit Strap	5.92	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.96	
			For >500, Deduct	-1.42	
26 05 29 00-0213	EA		1-1/2", One Hole Iron Conduit Strap	6.18	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.98	
			For >500, Deduct	-1.45	
26 05 29 00-0214	EA		2", One Hole Iron Conduit Strap	7.78	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-1.10	
			For >500, Deduct	-1.61	
26 05 29 00-0215	EA		2-1/2", One Hole Iron Conduit Strap	11.23	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.38	
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.36	
			For >500, Deduct	-1.95	
26 05 29 00-0216	EA		3", One Hole Iron Conduit Strap	14.11	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.46	
			For >100 To 250, Deduct	-0.91	
			For >250 To 500, Deduct	-1.58	
			For >500, Deduct	-2.24	
26 05 29 00-0217	EA		3-1/2", One Hole Iron Conduit Strap	18.32	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.56	
			For >100 To 250, Deduct	-1.12	
			For >250 To 500, Deduct	-1.89	
			For >500, Deduct	-2.66	
26 05 29 00-0218	EA		4", One Hole Iron Conduit Strap	35.16	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.98	
			For >100 To 250, Deduct	-1.97	
			For >250 To 500, Deduct	-3.16	
			For >500, Deduct	-4.35	
26 05 29 00-0219	EA		5", One Hole Iron Conduit Strap	44.21	
			For Work In Restricted Working Space, Add	1.25	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-1.21	
			For >100 To 250, Deduct	-2.42	
			For >250 To 500, Deduct	-3.83	
			For >500, Deduct	-5.25	
26 05 29 00-0220			Two Hole Steel Conduit Straps (26 05 29 00-0196)		
26 05 29 00-0221	EA		1/2", Two Hole Steel Conduit Strap	5.48	
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.99	
			For >500, Deduct	-1.48	
26 05 29 00-0222	EA		3/4", Two Hole Steel Conduit Strap	5.58	
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-1.00	
			For >500, Deduct	-1.49	
26 05 29 00-0223	EA		1", Two Hole Steel Conduit Strap	5.63	
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.50	
26 05 29 00-0224	EA		1-1/4", Two Hole Steel Conduit Strap	5.70	
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0225	EA		1-1/2", Two Hole Steel Conduit Strap 5.75		
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-1.02	
			For >500, Deduct	-1.51	
26 05 29 00-0226	EA		2", Two Hole Steel Conduit Strap 5.88		
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.02	
			For >500, Deduct	-1.52	
26 05 29 00-0227	EA		2-1/2", Two Hole Steel Conduit Strap 6.57		
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.56	
			For >250 To 500, Deduct	-1.08	
			For >500, Deduct	-1.59	
26 05 29 00-0228	EA		3", Two Hole Steel Conduit Strap 6.72		
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.61	
26 05 29 00-0229	EA		3-1/2", Two Hole Steel Conduit Strap 7.26		
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-1.13	
			For >500, Deduct	-1.66	
26 05 29 00-0230	EA		4", Two Hole Steel Conduit Strap 7.64		
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.16	
			For >500, Deduct	-1.70	
26 05 29 00-0231	EA		5", Two Hole Steel Conduit Strap 8.13		
			For Work In Restricted Working Space, Add	1.40	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.37	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.19	
			For >500, Deduct	-1.75	
26 05 29 00-0232			Clamp Back Spacers (26 05 29 00-0196).....4.40		
26 05 29 00-0233	EA		1/2" Conduit, Clamp Back Spacer 4.40		
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.74	
			For >500, Deduct	-1.09	
26 05 29 00-0234	EA		3/4" Conduit, Clamp Back Spacer 4.78		
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.76	
			For >500, Deduct	-1.13	
26 05 29 00-0235	EA		1" Conduit, Clamp Back Spacer 5.14		
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.79	
			For >500, Deduct	-1.16	
26 05 29 00-0236	EA		1-1/4" Conduit, Clamp Back Spacer 6.55		
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.90	
			For >500, Deduct	-1.30	
26 05 29 00-0237	EA		1-1/2" Conduit, Clamp Back Spacer 7.68		
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.98	
			For >500, Deduct	-1.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0238	EA		2" Conduit, Clamp Back Spacer.....	8.87	
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.07	
			For >500, Deduct	-1.54	
26 05 29 00-0239	EA		2-1/2" Conduit, Clamp Back Spacer.....	13.70	
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.85	
			For >250 To 500, Deduct	-1.43	
			For >500, Deduct	-2.02	
26 05 29 00-0240	EA		3" Conduit, Clamp Back Spacer.....	19.47	
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.57	
			For >100 To 250, Deduct	-1.14	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.60	
26 05 29 00-0241	EA		3-1/2" Conduit, Clamp Back Spacer.....	25.08	
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-0.71	
			For >100 To 250, Deduct	-1.42	
			For >250 To 500, Deduct	-2.29	
			For >500, Deduct	-3.16	
26 05 29 00-0242	EA		4" Conduit, Clamp Back Spacer.....	51.38	
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-1.37	
			For >100 To 250, Deduct	-2.73	
			For >250 To 500, Deduct	-4.26	
			For >500, Deduct	-5.79	
26 05 29 00-0243	EA		5" Conduit, Clamp Back Spacer.....	95.80	
			For Work In Restricted Working Space, Add	0.97	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.91	
			For >50 To 100, Deduct	-2.48	
			For >100 To 250, Deduct	-4.95	
			For >250 To 500, Deduct	-7.59	
			For >500, Deduct	-10.23	
26 05 29 00-0244			Conduit Clips (26 05 29 00-0196)		
			Note: Push in or clip.		
26 05 29 00-0245	EA		1/2" Conduit Clip.....	5.35	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.37	
26 05 29 00-0246	EA		3/4" Conduit Clip.....	5.35	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.92	
			For >500, Deduct	-1.37	
26 05 29 00-0247	EA		1" Conduit Clip.....	5.26	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.91	
			For >500, Deduct	-1.36	
26 05 29 00-0248	EA		1-1/4" Conduit Clip.....	5.48	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.93	
			For >500, Deduct	-1.38	
26 05 29 00-0249			Bolt And Nut Conduit Clips (26 05 29 00-0196)		
26 05 29 00-0250	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	6.66	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.40	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.15	
			For >500, Deduct	-1.71	
26 05 29 00-0251	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B).....	6.89	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.40	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-1.17	
			For >500, Deduct	-1.73	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0252	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	7.34	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.48	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.64	
			For >250 To 500, Deduct	-1.24	
			For >500, Deduct	-1.84	
26 05 29 00-0253	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	7.47	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.48	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.25	
			For >500, Deduct	-1.85	
26 05 29 00-0254	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B).....	8.35	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.48	
			For >50 To 100, Deduct	-0.35	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.32	
			For >500, Deduct	-1.94	
26 05 29 00-0255	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	9.05	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.56	
			For >50 To 100, Deduct	-0.37	
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.41	
			For >500, Deduct	-2.07	
26 05 29 00-0256	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	9.84	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.56	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.15	
26 05 29 00-0257	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	17.90	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.72	
			For >50 To 100, Deduct	-0.61	
			For >100 To 250, Deduct	-1.22	
			For >250 To 500, Deduct	-2.15	
			For >500, Deduct	-3.09	
26 05 29 00-0258			Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0196)		
			Note: Bat wing.		
26 05 29 00-0259	EA		1/2", Conduit Hanger From Flange, Wire Or Rod	3.87	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.88	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.68	
			For >500, Deduct	-1.01	
26 05 29 00-0260	EA		3/4", Conduit Hanger From Flange, Wire Or Rod	3.93	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.88	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.68	
			For >500, Deduct	-1.02	
26 05 29 00-0261	EA		1", Conduit Hanger From Flange, Wire Or Rod	4.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.88	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.70	
			For >500, Deduct	-1.04	
26 05 29 00-0262	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod	4.55	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.88	
			For >50 To 100, Deduct	-0.19	
			For >100 To 250, Deduct	-0.38	
			For >250 To 500, Deduct	-0.73	
			For >500, Deduct	-1.08	
26 05 29 00-0263			Beam Flange Clamps (26 05 29 00-0196)		
			Note: For threaded rod, nut not required.		
26 05 29 00-0264	EA		1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24)	5.73	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.45	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.22	
26 05 29 00-0265	EA		5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58)	5.61	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.83	
			For >500, Deduct	-1.21	
26 05 29 00-0266	EA		9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912)	6.30	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.88	
			For >500, Deduct	-1.28	
26 05 29 00-0267			T-Bar Support Clips (26 05 29 00-0196)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0268	EA		9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	9.50	
			For >50 To 100, Deduct	-0.40	
			For >100 To 250, Deduct	-0.80	
			For >250 To 500, Deduct	-1.52	
			For >500, Deduct	-2.25	
26 05 29 00-0269	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	8.97	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-1.48	
			For >500, Deduct	-2.20	
26 05 29 00-0270	EA		15/16" Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	3.47	
			For >50 To 100, Deduct	-0.13	
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.46	
			For >500, Deduct	-0.67	
26 05 29 00-0271	EA		24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	29.20	
			For >50 To 100, Deduct	-0.80	
			For >100 To 250, Deduct	-1.59	
			For >250 To 500, Deduct	-2.52	
			For >500, Deduct	-3.44	
26 05 29 00-0272 Switch And Outlet Box Type Supports (26 05 29 00-0196)					
26 05 29 00-0273	EA		1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	7.14	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.86	
			For >500, Deduct	-1.23	
26 05 29 00-0274	EA		1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	6.02	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.12	
26 05 29 00-0275	EA		Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	6.98	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.22	
26 05 29 00-0276	EA		Snap On, Switch And Outlet Box Support (Caddy MSF)	4.43	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.66	
			For >500, Deduct	-0.96	
26 05 29 00-0277	EA		1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	4.63	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.67	
			For >500, Deduct	-0.98	
26 05 29 00-0278 Lighting Fixture Hanger (26 05 29 00-0196)					
Note: For existing or owner furnished fixtures.					
26 05 29 00-0279	EA		Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	6.29	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.12	
			For >500, Deduct	-1.67	
26 05 29 00-0280	PR		Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	22.89	
			For >50 To 100, Deduct	-0.70	
			For >100 To 250, Deduct	-1.40	
			For >250 To 500, Deduct	-2.37	
			For >500, Deduct	-3.33	
26 05 29 00-0281	PR		Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	31.61	
			For >50 To 100, Deduct	-0.92	
			For >100 To 250, Deduct	-1.84	
			For >250 To 500, Deduct	-3.02	
			For >500, Deduct	-4.20	
26 05 29 00-0282 Rigid Steel Conduit Clamps For Unistrut Channel (26 05 29 00-0196)					
26 05 29 00-0283	EA		1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.68	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.91	
			For >500, Deduct	-1.35	
			For Work In Restricted Working Space, Add	1.17	
26 05 29 00-0284	EA		3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	5.71	
			For >50 To 100, Deduct	-0.24	
			For >100 To 250, Deduct	-0.48	
			For >250 To 500, Deduct	-0.91	
			For >500, Deduct	-1.35	
			For Work In Restricted Working Space, Add	1.17	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 05 29 00-0285	EA	1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	5.85	
		For >50 To 100, Deduct	-0.24	
		For >100 To 250, Deduct	-0.49	
		For >250 To 500, Deduct	-0.93	
		For >500, Deduct	-1.36	
		For Work In Restricted Working Space, Add	1.17	
26 05 29 00-0286	EA	1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	7.35	
		For >50 To 100, Deduct	-0.31	
		For >100 To 250, Deduct	-0.63	
		For >250 To 500, Deduct	-1.20	
		For >500, Deduct	-1.78	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0287	EA	1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	8.08	
		For >50 To 100, Deduct	-0.33	
		For >100 To 250, Deduct	-0.66	
		For >250 To 500, Deduct	-1.26	
		For >500, Deduct	-1.85	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0288	EA	2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	8.16	
		For >50 To 100, Deduct	-0.33	
		For >100 To 250, Deduct	-0.67	
		For >250 To 500, Deduct	-1.26	
		For >500, Deduct	-1.86	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0289	EA	2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.97	
		For >50 To 100, Deduct	-0.41	
		For >100 To 250, Deduct	-0.82	
		For >250 To 500, Deduct	-1.56	
		For >500, Deduct	-2.30	
		For Work In Restricted Working Space, Add	1.95	
26 05 29 00-0290	EA	3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	10.61	
		For >50 To 100, Deduct	-0.43	
		For >100 To 250, Deduct	-0.86	
		For >250 To 500, Deduct	-1.61	
		For >500, Deduct	-2.36	
		For Work In Restricted Working Space, Add	1.95	
26 05 29 00-0291	EA	3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	11.24	
		For >50 To 100, Deduct	-0.44	
		For >100 To 250, Deduct	-0.89	
		For >250 To 500, Deduct	-1.65	
		For >500, Deduct	-2.42	
		For Work In Restricted Working Space, Add	1.95	
26 05 29 00-0292	EA	4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	11.46	
		For >50 To 100, Deduct	-0.45	
		For >100 To 250, Deduct	-0.90	
		For >250 To 500, Deduct	-1.67	
		For >500, Deduct	-2.44	
		For Work In Restricted Working Space, Add	1.95	
26 05 29 00-0293	Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel (26 05 29 00-0196)			
26 05 29 00-0294	EA	1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.15	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.50	
		For >250 To 500, Deduct	-0.95	
		For >500, Deduct	-1.39	
		For Work In Restricted Working Space, Add	1.17	
26 05 29 00-0295	EA	3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.10	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.50	
		For >250 To 500, Deduct	-0.94	
		For >500, Deduct	-1.39	
		For Work In Restricted Working Space, Add	1.17	
26 05 29 00-0296	EA	1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.02	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.50	
		For >250 To 500, Deduct	-0.94	
		For >500, Deduct	-1.38	
		For Work In Restricted Working Space, Add	1.17	
26 05 29 00-0297	EA	1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	7.93	
		For >50 To 100, Deduct	-0.33	
		For >100 To 250, Deduct	-0.66	
		For >250 To 500, Deduct	-1.24	
		For >500, Deduct	-1.83	
		For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0298	EA	1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	9.20	
		For >50 To 100, Deduct	-0.36	
		For >100 To 250, Deduct	-0.72	
		For >250 To 500, Deduct	-1.34	
		For >500, Deduct	-1.96	
		For Work In Restricted Working Space, Add	1.56	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0299	EA		2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	9.27	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.35	
			For >500, Deduct	-1.97	
			For Work In Restricted Working Space, Add	1.56	
26 05 29 00-0300			"J" Type Conduit Hangers (26 05 29 00-0196)		
26 05 29 00-0301	EA		1/2", "J" Type Conduit Hanger (Unistrut J1205).....	27.40	
			For >50 To 100, Deduct	-0.91	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-3.19	
			For >500, Deduct	-4.56	
			For Work In Restricted Working Space, Add	2.73	
26 05 29 00-0302	EA		3/4", "J" Type Conduit Hanger (Unistrut J1207).....	27.72	
			For >50 To 100, Deduct	-0.92	
			For >100 To 250, Deduct	-1.84	
			For >250 To 500, Deduct	-3.22	
			For >500, Deduct	-4.59	
			For Work In Restricted Working Space, Add	2.73	
26 05 29 00-0303	EA		1", "J" Type Conduit Hanger (Unistrut J1210).....	29.31	
			For >50 To 100, Deduct	-0.99	
			For >100 To 250, Deduct	-1.98	
			For >250 To 500, Deduct	-3.50	
			For >500, Deduct	-5.01	
			For Work In Restricted Working Space, Add	3.11	
26 05 29 00-0304	EA		1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	29.65	
			For >50 To 100, Deduct	-1.00	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-3.52	
			For >500, Deduct	-5.04	
			For Work In Restricted Working Space, Add	3.11	
26 05 29 00-0305	EA		1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	31.18	
			For >50 To 100, Deduct	-1.07	
			For >100 To 250, Deduct	-2.14	
			For >250 To 500, Deduct	-3.80	
			For >500, Deduct	-5.45	
			For Work In Restricted Working Space, Add	3.50	
26 05 29 00-0306	EA		2", "J" Type Conduit Hanger (Unistrut J1220).....	32.48	
			For >50 To 100, Deduct	-1.10	
			For >100 To 250, Deduct	-2.21	
			For >250 To 500, Deduct	-3.90	
			For >500, Deduct	-5.58	
			For Work In Restricted Working Space, Add	3.50	
26 05 29 00-0307	EA		2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	52.36	
			For >50 To 100, Deduct	-1.63	
			For >100 To 250, Deduct	-3.27	
			For >250 To 500, Deduct	-5.55	
			For >500, Deduct	-7.83	
			For Work In Restricted Working Space, Add	3.89	
26 05 29 00-0308	EA		3", "J" Type Conduit Hanger (Unistrut J1230).....	55.62	
			For >50 To 100, Deduct	-1.75	
			For >100 To 250, Deduct	-3.49	
			For >250 To 500, Deduct	-5.96	
			For >500, Deduct	-8.42	
			For Work In Restricted Working Space, Add	4.28	
26 05 29 00-0309	EA		3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	59.87	
			For >50 To 100, Deduct	-1.89	
			For >100 To 250, Deduct	-3.77	
			For >250 To 500, Deduct	-6.44	
			For >500, Deduct	-9.10	
			For Work In Restricted Working Space, Add	4.67	
26 05 29 00-0310	EA		4", "J" Type Conduit Hanger (Unistrut J1240).....	80.03	
			For >50 To 100, Deduct	-2.39	
			For >100 To 250, Deduct	-4.78	
			For >250 To 500, Deduct	-7.95	
			For >500, Deduct	-11.12	
			For Work In Restricted Working Space, Add	4.67	
26 05 29 00-0311	EA		5", "J" Type Conduit Hanger (Unistrut J1250).....	87.94	
			For >50 To 100, Deduct	-2.62	
			For >100 To 250, Deduct	-5.24	
			For >250 To 500, Deduct	-8.70	
			For >500, Deduct	-12.17	
			For Work In Restricted Working Space, Add	5.06	
26 05 29 00-0312	EA		6", "J" Type Conduit Hanger (Unistrut J1260).....	124.33	
			For >50 To 100, Deduct	-3.60	
			For >100 To 250, Deduct	-7.19	
			For >250 To 500, Deduct	-11.76	
			For >500, Deduct	-16.33	
			For Work In Restricted Working Space, Add	5.84	

26 05 29 00-0313 Between Studs Box Brackets (26 05 29 00-0196)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0314	EA		16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	9.83	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.22	
			For >500, Deduct	-1.76	
			For Work In Restricted Working Space, Add	1.17	
26 05 29 00-0315	EA		24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	11.88	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-1.38	
			For >500, Deduct	-1.97	
			For Work In Restricted Working Space, Add	1.17	
26 05 29 00-0316 Hangers And Brackets (26 05 29 00-0196)					
26 05 29 00-0317	EA		Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.38	
			For >50 To 100, Deduct	-0.15	
			For >100 To 250, Deduct	-0.30	
			For >250 To 500, Deduct	-0.58	
			For >500, Deduct	-0.86	
26 05 29 00-0318	EA		Angle Bracket Only With 1/4" Hole (Caddy AB)	3.26	
			For >50 To 100, Deduct	-0.15	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.57	
			For >500, Deduct	-0.85	
26 05 29 00-0319	EA		Offset Bracket Only With 1/4" Hole (Caddy AO)	3.26	
			For >50 To 100, Deduct	-0.15	
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.57	
			For >500, Deduct	-0.85	
26 05 29 00-0320	EA		Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB)	4.49	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.66	
			For >500, Deduct	-0.97	
26 05 29 00-0321	EA		Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB)	4.52	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.66	
			For >500, Deduct	-0.97	
26 05 29 00-0322	EA		Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB)	4.38	
			For >50 To 100, Deduct	-0.17	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.65	
			For >500, Deduct	-0.96	
26 05 29 00-0323	EA		Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO)	4.49	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.66	
			For >500, Deduct	-0.97	
26 05 29 00-0324	EA		Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO)	4.52	
			For >50 To 100, Deduct	-0.18	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.66	
			For >500, Deduct	-0.97	
26 05 29 00-0325 Clips And Accessories (26 05 29 00-0196)					
26 05 29 00-0326	EA		1/2" Diameter Center, Bridle Ring (Caddy 2BR)	2.30	
			For >50 To 100, Deduct	-0.10	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.38	
			For >500, Deduct	-0.55	
26 05 29 00-0327	EA		3/4" Diameter Center, Bridle Ring (Caddy 2BR12)	2.35	
			For >50 To 100, Deduct	-0.10	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.38	
			For >500, Deduct	-0.56	
26 05 29 00-0328	EA		1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20)	2.53	
			For >50 To 100, Deduct	-0.10	
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.39	
			For >500, Deduct	-0.58	
26 05 29 00-0329	EA		2" Diameter Center, Bridle Ring (Caddy 2BR32)	2.92	
			For >50 To 100, Deduct	-0.11	
			For >100 To 250, Deduct	-0.23	
			For >250 To 500, Deduct	-0.42	
			For >500, Deduct	-0.62	
26 05 29 00-0330 Wire Ties (26 05 29 00-0196)					
Note: Per hundred (C).					

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 29 00-0331	C	3" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	33.00	
		For Up To 0.1, Add	27.11	
		For >0.1 To 0.25, Add	13.56	
		For >0.25 To 0.75, Add	6.78	
		For >2.0, Deduct	-2.71	
		For UV Black, Add	0.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 29 00-0332	C	4" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	33.23	
		For Up To 0.1, Add	27.11	
		For >0.1 To 0.25, Add	13.56	
		For >0.25 To 0.75, Add	6.78	
		For >2.0, Deduct	-2.71	
		For UV Black, Add	0.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 29 00-0333	C	4-3/4" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	33.39	
		For Up To 0.1, Add	27.11	
		For >0.1 To 0.25, Add	13.56	
		For >0.25 To 0.75, Add	6.78	
		For >2.0, Deduct	-2.71	
		For UV Black, Add	0.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 29 00-0334	C	5-1/2" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	33.46	
		For Up To 0.1, Add	27.11	
		For >0.1 To 0.25, Add	13.56	
		For >0.25 To 0.75, Add	6.78	
		For >2.0, Deduct	-2.71	
		For UV Black, Add	0.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 29 00-0335	C	6-1/2" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	34.70	
		For Up To 0.1, Add	28.28	
		For >0.1 To 0.25, Add	14.14	
		For >0.25 To 0.75, Add	7.07	
		For >2.0, Deduct	-2.83	
		For UV Black, Add	0.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.48	
26 05 29 00-0336	C	8" Length, 18 Lb. Tensile Strength, Nylon Cable Ties	40.96	
		For Up To 0.1, Add	29.57	
		For >0.1 To 0.25, Add	14.79	
		For >0.25 To 0.75, Add	7.39	
		For >2.0, Deduct	-2.96	
		For UV Black, Add	1.71	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.87	
26 05 29 00-0337	C	4-3/4" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	39.32	
		For Up To 0.1, Add	27.11	
		For >0.1 To 0.25, Add	13.56	
		For >0.25 To 0.75, Add	6.78	
		For >2.0, Deduct	-2.71	
		For UV Black, Add	1.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 29 00-0338	C	6" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	40.59	
		For Up To 0.1, Add	28.28	
		For >0.1 To 0.25, Add	14.14	
		For >0.25 To 0.75, Add	7.07	
		For >2.0, Deduct	-2.83	
		For UV Black, Add	1.85	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.48	
26 05 29 00-0339	C	8" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	41.94	
		For Up To 0.1, Add	29.57	
		For >0.1 To 0.25, Add	14.79	
		For >0.25 To 0.75, Add	7.39	
		For >2.0, Deduct	-2.96	
		For UV Black, Add	1.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.87	
26 05 29 00-0340	C	10" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	60.42	
		For Up To 0.1, Add	31.88	
		For >0.1 To 0.25, Add	15.94	
		For >0.25 To 0.75, Add	7.97	
		For >2.0, Deduct	-3.19	
		For UV Black, Add	4.28	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.56	
26 05 29 00-0341	C	11-1/2" Length, 40 Lb. Tensile Strength, Nylon Cable Ties	63.00	
		For Up To 0.1, Add	31.88	
		For >0.1 To 0.25, Add	15.94	
		For >0.25 To 0.75, Add	7.97	
		For >2.0, Deduct	-3.19	
		For UV Black, Add	4.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.56	
26 05 29 00-0342	C	7" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	43.75	
		For Up To 0.1, Add	29.57	
		For >0.1 To 0.25, Add	14.79	
		For >0.25 To 0.75, Add	7.39	
		For >2.0, Deduct	-2.96	
		For UV Black, Add	2.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.87	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0343	C		8" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	41.46	
			For Up To 0.1, Add	29.57	
			For >0.1 To 0.25, Add	14.79	
			For >0.25 To 0.75, Add	7.39	
			For >2.0, Deduct	-2.96	
			For UV Black, Add	1.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.87	
26 05 29 00-0344	C		11" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	61.13	
			For Up To 0.1, Add	31.88	
			For >0.1 To 0.25, Add	15.94	
			For >0.25 To 0.75, Add	7.97	
			For >2.0, Deduct	-3.19	
			For UV Black, Add	4.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.56	
26 05 29 00-0345	C		14-1/2" Length, 50 Lb. Tensile Strength, Nylon Cable Ties	69.83	
			For Up To 0.1, Add	33.87	
			For >0.1 To 0.25, Add	16.94	
			For >0.25 To 0.75, Add	8.47	
			For >2.0, Deduct	-3.39	
			For UV Black, Add	5.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 29 00-0346	C		8" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	68.15	
			For Up To 0.1, Add	29.57	
			For >0.1 To 0.25, Add	14.79	
			For >0.25 To 0.75, Add	7.39	
			For >2.0, Deduct	-2.96	
			For UV Black, Add	5.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.87	
26 05 29 00-0347	C		11" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	74.59	
			For Up To 0.1, Add	31.88	
			For >0.1 To 0.25, Add	15.94	
			For >0.25 To 0.75, Add	7.97	
			For >2.0, Deduct	-3.19	
			For UV Black, Add	6.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.56	
26 05 29 00-0348	C		15" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	90.05	
			For Up To 0.1, Add	33.87	
			For >0.1 To 0.25, Add	16.94	
			For >0.25 To 0.75, Add	8.47	
			For >2.0, Deduct	-3.39	
			For UV Black, Add	8.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 29 00-0349	C		17" Length, 120 Lb. Tensile Strength, Nylon Cable Ties	128.18	
			For Up To 0.1, Add	36.13	
			For >0.1 To 0.25, Add	18.07	
			For >0.25 To 0.75, Add	9.03	
			For >2.0, Deduct	-3.61	
			For UV Black, Add	13.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.84	
26 05 29 00-0350	C		17-3/4" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	124.25	
			For Up To 0.1, Add	36.13	
			For >0.1 To 0.25, Add	18.07	
			For >0.25 To 0.75, Add	9.03	
			For >2.0, Deduct	-3.61	
			For UV Black, Add	13.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.84	
26 05 29 00-0351	C		21-11/16" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	151.05	
			For Up To 0.1, Add	37.81	
			For >0.1 To 0.25, Add	18.91	
			For >0.25 To 0.75, Add	9.45	
			For >2.0, Deduct	-3.78	
			For UV Black, Add	16.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.34	
26 05 29 00-0352	C		30" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	174.63	
			For Up To 0.1, Add	39.66	
			For >0.1 To 0.25, Add	19.83	
			For >0.25 To 0.75, Add	9.92	
			For >2.0, Deduct	-3.97	
			For UV Black, Add	20.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.90	
26 05 29 00-0353	C		46" Length, 175 Lb. Tensile Strength, Nylon Cable Ties	238.90	
			For Up To 0.1, Add	42.79	
			For >0.1 To 0.25, Add	21.40	
			For >0.25 To 0.75, Add	10.70	
			For >2.0, Deduct	-4.28	
			For UV Black, Add	29.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.84	
26 05 29 00-0354	C		3/4" x 3/4" Self Adhesive Tie Mounts.....	43.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.20	
26 05 29 00-0355	C		1.1" x 1.1" Tie Mounts With Screw.....	86.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.39	
26 05 29 00-0356	EA		6" Length x 1/2" Width, Velcro Grip Cable Tie	2.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.20	
26 05 29 00-0357	EA		8" Length x 1/2" Width, Velcro Grip Cable Tie	2.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.16	
26 05 29 00-0358	EA		12" Length x 1/2" Width, Velcro Grip Cable Tie	3.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 29 00-0359	EA	15" Length x 3/4" Width, Velcro Grip Cable Tie	4.31	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	0.16	
26 05 29 00-0360	EA	180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	110.33	
		Note: Cut to length.		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1.22	
26 05 29 00-0361		Fastening Devices For Wireway And Conduit (26 05 29)		
		Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0362		Toggle Bolts (26 05 29 00-0361)		
		Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0363	EA	1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	10.00	
		<i>For >50 To 100, Deduct</i>	-0.96	
		<i>For >100 To 250, Deduct</i>	-1.92	
		<i>For >250 To 500, Deduct</i>	-3.36	
		<i>For >500, Deduct</i>	-4.79	
26 05 29 00-0364	EA	1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	10.28	
		<i>For >50 To 100, Deduct</i>	-0.99	
		<i>For >100 To 250, Deduct</i>	-1.97	
		<i>For >250 To 500, Deduct</i>	-3.44	
		<i>For >500, Deduct</i>	-4.92	
26 05 29 00-0365	EA	3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	10.81	
		<i>For >50 To 100, Deduct</i>	-1.02	
		<i>For >100 To 250, Deduct</i>	-2.04	
		<i>For >250 To 500, Deduct</i>	-3.55	
		<i>For >500, Deduct</i>	-5.07	
26 05 29 00-0366	EA	3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	11.07	
		<i>For >50 To 100, Deduct</i>	-1.04	
		<i>For >100 To 250, Deduct</i>	-2.08	
		<i>For >250 To 500, Deduct</i>	-3.64	
		<i>For >500, Deduct</i>	-5.19	
26 05 29 00-0367	EA	1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	11.33	
		<i>For >50 To 100, Deduct</i>	-1.07	
		<i>For >100 To 250, Deduct</i>	-2.13	
		<i>For >250 To 500, Deduct</i>	-3.72	
		<i>For >500, Deduct</i>	-5.31	
26 05 29 00-0368	EA	5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	12.69	
		<i>For >50 To 100, Deduct</i>	-1.12	
		<i>For >100 To 250, Deduct</i>	-2.24	
		<i>For >250 To 500, Deduct</i>	-3.89	
		<i>For >500, Deduct</i>	-5.54	
26 05 29 00-0369	EA	3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.17	
		<i>For >50 To 100, Deduct</i>	-1.15	
		<i>For >100 To 250, Deduct</i>	-2.30	
		<i>For >250 To 500, Deduct</i>	-3.99	
		<i>For >500, Deduct</i>	-5.68	
26 05 29 00-0370		Machine Screws (26 05 29 00-0361)		
		Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0371	EA	#8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	2.97	
		<i>For >50 To 100, Deduct</i>	-0.29	
		<i>For >100 To 250, Deduct</i>	-0.58	
		<i>For >250 To 500, Deduct</i>	-1.01	
		<i>For >500, Deduct</i>	-1.45	
26 05 29 00-0372	EA	#10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.01	
		<i>For >50 To 100, Deduct</i>	-0.29	
		<i>For >100 To 250, Deduct</i>	-0.58	
		<i>For >250 To 500, Deduct</i>	-1.02	
		<i>For >500, Deduct</i>	-1.45	
26 05 29 00-0373	EA	1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.77	
		<i>For >50 To 100, Deduct</i>	-0.37	
		<i>For >100 To 250, Deduct</i>	-0.73	
		<i>For >250 To 500, Deduct</i>	-1.28	
		<i>For >500, Deduct</i>	-1.82	
26 05 29 00-0374	EA	5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.92	
		<i>For >50 To 100, Deduct</i>	-0.37	
		<i>For >100 To 250, Deduct</i>	-0.74	
		<i>For >250 To 500, Deduct</i>	-1.29	
		<i>For >500, Deduct</i>	-1.84	
26 05 29 00-0375	EA	3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.83	
		<i>For >50 To 100, Deduct</i>	-0.44	
		<i>For >100 To 250, Deduct</i>	-0.89	
		<i>For >250 To 500, Deduct</i>	-1.55	
		<i>For >500, Deduct</i>	-2.21	
26 05 29 00-0376		Hex Lag Bolts With Lag Shield Expansion Anchors (26 05 29 00-0361)		
		Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0377	EA	1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.71	
		<i>For >50 To 100, Deduct</i>	-0.39	
		<i>For >100 To 250, Deduct</i>	-0.78	
		<i>For >250 To 500, Deduct</i>	-1.35	
		<i>For >500, Deduct</i>	-1.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0378	EA	5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	.....	4.66	
		For >50 To 100, Deduct		-0.39	
		For >100 To 250, Deduct		-0.77	
		For >250 To 500, Deduct		-1.34	
		For >500, Deduct		-1.91	
26 05 29 00-0379	EA	3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	.....	6.50	
		For >50 To 100, Deduct		-0.49	
		For >100 To 250, Deduct		-0.97	
		For >250 To 500, Deduct		-1.68	
		For >500, Deduct		-2.38	
26 05 29 00-0380	EA	1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	.....	8.24	
		For >50 To 100, Deduct		-0.58	
		For >100 To 250, Deduct		-1.17	
		For >250 To 500, Deduct		-2.00	
		For >500, Deduct		-2.84	
26 05 29 00-0381		Hanger Lag Bolts With Hex Nuts (26 05 29 00-0361)			
		Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.			
26 05 29 00-0382	EA	1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	.....	3.54	
		For >50 To 100, Deduct		-0.30	
		For >100 To 250, Deduct		-0.61	
		For >250 To 500, Deduct		-1.06	
		For >500, Deduct		-1.51	
26 05 29 00-0383	EA	5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	.....	3.59	
		For >50 To 100, Deduct		-0.31	
		For >100 To 250, Deduct		-0.61	
		For >250 To 500, Deduct		-1.06	
		For >500, Deduct		-1.51	
26 05 29 00-0384	EA	3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	.....	4.23	
		For >50 To 100, Deduct		-0.35	
		For >100 To 250, Deduct		-0.69	
		For >250 To 500, Deduct		-1.20	
		For >500, Deduct		-1.71	
26 05 29 00-0385		Hollow Wall Screw Anchors (26 05 29 00-0361)			
26 05 29 00-0386	EA	6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	2.09	
		For >50 To 100, Deduct		-0.18	
		For >100 To 250, Deduct		-0.36	
		For >250 To 500, Deduct		-0.63	
		For >500, Deduct		-0.90	
26 05 29 00-0387	EA	6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	2.15	
		For >50 To 100, Deduct		-0.18	
		For >100 To 250, Deduct		-0.37	
		For >250 To 500, Deduct		-0.64	
		For >500, Deduct		-0.91	
26 05 29 00-0388	EA	6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	2.24	
		For >50 To 100, Deduct		-0.19	
		For >100 To 250, Deduct		-0.37	
		For >250 To 500, Deduct		-0.64	
		For >500, Deduct		-0.92	
26 05 29 00-0389	EA	10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	2.82	
		For >50 To 100, Deduct		-0.22	
		For >100 To 250, Deduct		-0.44	
		For >250 To 500, Deduct		-0.77	
		For >500, Deduct		-1.09	
26 05 29 00-0390	EA	10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	2.95	
		For >50 To 100, Deduct		-0.23	
		For >100 To 250, Deduct		-0.45	
		For >250 To 500, Deduct		-0.78	
		For >500, Deduct		-1.10	
26 05 29 00-0391	EA	10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	2.99	
		For >50 To 100, Deduct		-0.23	
		For >100 To 250, Deduct		-0.45	
		For >250 To 500, Deduct		-0.78	
		For >500, Deduct		-1.11	
26 05 29 00-0392	EA	1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	3.01	
		For >50 To 100, Deduct		-0.23	
		For >100 To 250, Deduct		-0.45	
		For >250 To 500, Deduct		-0.78	
		For >500, Deduct		-1.11	
26 05 29 00-0393	EA	1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	3.19	
		For >50 To 100, Deduct		-0.23	
		For >100 To 250, Deduct		-0.46	
		For >250 To 500, Deduct		-0.79	
		For >500, Deduct		-1.13	
26 05 29 00-0394	EA	1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	.....	3.26	
		For >50 To 100, Deduct		-0.23	
		For >100 To 250, Deduct		-0.47	
		For >250 To 500, Deduct		-0.80	
		For >500, Deduct		-1.13	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 05 29 00-0395	Lead Screw Anchors (26 05 29 00-0361) Note: Includes screw.				
26 05 29 00-0396	EA #6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	4.91			
	For >50 To 100, Deduct	-0.46			
	For >100 To 250, Deduct	-0.91			
	For >250 To 500, Deduct	-1.59			
	For >500, Deduct	-2.26			
26 05 29 00-0397	EA #10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	5.82			
	For >50 To 100, Deduct	-0.53			
	For >100 To 250, Deduct	-1.06			
	For >250 To 500, Deduct	-1.84			
	For >500, Deduct	-2.63			
26 05 29 00-0398	EA #16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	7.81			
	For >50 To 100, Deduct	-0.68			
	For >100 To 250, Deduct	-1.37			
	For >250 To 500, Deduct	-2.37			
	For >500, Deduct	-3.38			
26 05 29 00-0399	Acoustical T-Bar Clips (26 05 29 00-0361) Note: For conduit installation above suspended ceilings up to 15' height.				
26 05 29 00-0400	EA 1/2" Conduit, Push-In Acoustical T-Bar Clip	8.32			
	For >50 To 100, Deduct	-0.62			
	For >100 To 250, Deduct	-1.25			
	For >250 To 500, Deduct	-2.14			
	For >500, Deduct	-3.04			
26 05 29 00-0401	EA 3/4" Conduit, Push-In Acoustical T-Bar Clip	8.72			
	For >50 To 100, Deduct	-0.65			
	For >100 To 250, Deduct	-1.31			
	For >250 To 500, Deduct	-2.25			
	For >500, Deduct	-3.20			
26 05 29 00-0402	EA 1" Conduit, Push-In Acoustical T-Bar Clip	9.51			
	For >50 To 100, Deduct	-0.70			
	For >100 To 250, Deduct	-1.40			
	For >250 To 500, Deduct	-2.40			
	For >500, Deduct	-3.41			
26 05 29 00-0403	Threaded Rod, Accessories And Attachments (26 05 29)				
26 05 29 00-0404	Threaded Rod And Rod Accessories (26 05 29 00-0403)				
26 05 29 00-0405	Carbon Steel Threaded Rod (26 05 29 00-0404) Note: Includes plain finish.				
26 05 29 00-0406	LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.84	0.82		
	For Galvanized, Add	0.88			
	For Zinc Coated, Add	0.63			
26 05 29 00-0407	LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.24	0.87		
	For Galvanized, Add	1.40			
	For Zinc Coated, Add	1.00			
26 05 29 00-0408	LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.24	0.89		
	For Galvanized, Add	2.18			
	For Zinc Coated, Add	1.55			
26 05 29 00-0409	LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.74	0.92		
	For Galvanized, Add	3.96			
	For Zinc Coated, Add	2.82			
26 05 29 00-0410	LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	12.78	0.96		
	For Galvanized, Add	4.35			
	For Zinc Coated, Add	3.10			
26 05 29 00-0411	LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.44	1.08		
	For Galvanized, Add	6.11			
	For Zinc Coated, Add	4.35			
26 05 29 00-0412	LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	21.65	1.21		
	For Galvanized, Add	7.70			
	For Zinc Coated, Add	5.49			
26 05 29 00-0413	Threaded Rod Couplings (26 05 29 00-0404)				
26 05 29 00-0414	EA 3/8" Diameter, Threaded Rod Coupling Nut	10.20			
26 05 29 00-0415	EA 1/2" Diameter, Threaded Rod Coupling Nut	11.54			
26 05 29 00-0416	EA 5/8" Diameter, Threaded Rod Coupling Nut	14.23			
26 05 29 00-0417	EA 3/4" Diameter, Threaded Rod Coupling Nut	17.14			
26 05 29 00-0418	EA 7/8" Diameter, Threaded Rod Coupling Nut	24.47			
26 05 29 00-0419	EA 1" Diameter, Threaded Rod Coupling Nut	29.01			
26 05 29 00-0420	EA 1-1/8" Diameter, Threaded Rod Coupling Nut	53.67			
26 05 29 00-0421	Flat Washers (26 05 29 00-0404)				
26 05 29 00-0422	EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.87	0.32		
	For Galvanized, Add	0.03			
26 05 29 00-0423	EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.10	0.32		
	For Galvanized, Add	0.07			
26 05 29 00-0424	EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.41	0.32		
	For Galvanized, Add	0.14			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0425	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.71	0.65
			<i>For Galvanized, Add</i>	0.20	
26 05 29 00-0426	EA		7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.92	0.65
			<i>For Galvanized, Add</i>	0.24	
26 05 29 00-0427	EA		1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.27	0.65
			<i>For Galvanized, Add</i>	0.30	
26 05 29 00-0428	EA		1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.54	0.65
			<i>For Galvanized, Add</i>	0.33	
26 05 29 00-0429 Malleable Iron Eye Sockets (26 05 29 00-0404)					
Note: Type 16.					
26 05 29 00-0430	EA		3/8" Rod Size, Malleable Iron Eye Socket	13.85	
26 05 29 00-0431	EA		1/2" Rod Size, Malleable Iron Eye Socket	16.68	
26 05 29 00-0432	EA		5/8" Rod Size, Malleable Iron Eye Socket	29.75	
26 05 29 00-0433	EA		3/4" Rod Size, Malleable Iron Eye Socket	42.77	
26 05 29 00-0434	EA		7/8" Rod Size, Malleable Iron Eye Socket	45.48	
26 05 29 00-0435 Hex Nuts (26 05 29 00-0404)					
26 05 29 00-0436	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.85	0.32
			<i>For Galvanized, Add</i>	0.03	
26 05 29 00-0437	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.06	0.32
			<i>For Galvanized, Add</i>	0.06	
26 05 29 00-0438	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.41	0.32
			<i>For Galvanized, Add</i>	0.14	
26 05 29 00-0439	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.66	0.65
			<i>For Galvanized, Add</i>	0.19	
26 05 29 00-0440	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.38	0.65
			<i>For Galvanized, Add</i>	0.36	
26 05 29 00-0441	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.02	0.65
			<i>For Galvanized, Add</i>	0.48	
26 05 29 00-0442	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.86	0.65
			<i>For Galvanized, Add</i>	0.91	
26 05 29 00-0443 Forged Steel Turnbuckles (26 05 29 00-0404)					
Note: Type 13.					
26 05 29 00-0444	EA		3/8" Thread Diameter, Forged Steel Turnbuckle Body	33.52	
26 05 29 00-0445	EA		1/2" Thread Diameter, Forged Steel Turnbuckle Body	41.71	
26 05 29 00-0446	EA		5/8" Thread Diameter, Forged Steel Turnbuckle Body	56.40	
26 05 29 00-0447	EA		3/4" Thread Diameter, Forged Steel Turnbuckle Body	70.07	
26 05 29 00-0448	EA		7/8" Thread Diameter, Forged Steel Turnbuckle Body	176.83	
26 05 29 00-0449	EA		1" Thread Diameter, Forged Steel Turnbuckle Body	115.60	
26 05 29 00-0450	EA		1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	236.00	
26 05 29 00-0451 Attachments (26 05 29 00-0403)					
26 05 29 00-0452 Welded Beam Attachments (26 05 29 00-0451)					
Note: Type 22.					
26 05 29 00-0453	EA		3/8" Rod Size, Welded Beam Attachment	61.16	12.98
26 05 29 00-0454	EA		1/2" Rod Size, Welded Beam Attachment	65.28	13.63
26 05 29 00-0455	EA		5/8" Rod Size, Welded Beam Attachment	69.53	14.40
26 05 29 00-0456	EA		3/4" Rod Size, Welded Beam Attachment	89.47	15.32
26 05 29 00-0457	EA		7/8" Rod Size, Welded Beam Attachment	107.87	16.22
26 05 29 00-0458	EA		1" Rod Size, Welded Beam Attachment	152.22	18.56
26 05 29 00-0459	EA		1-1/8" Rod Size, Welded Beam Attachment	217.22	19.47
26 05 29 00-0460 C-Clamp Style Beam Clamps (26 05 29 00-0451)					
Note: Type 23. Top or bottom flange mount.					
26 05 29 00-0461	EA		3/8" Rod Size, C-Clamp Style Beam Clamp	20.57	9.75
26 05 29 00-0462	EA		1/2" Rod Size, C-Clamp Style Beam Clamp	24.79	10.41
26 05 29 00-0463	EA		5/8" Rod Size, C-Clamp Style Beam Clamp	28.27	11.15
26 05 29 00-0464	EA		3/4" Rod Size, C-Clamp Style Beam Clamp	36.83	12.00
26 05 29 00-0465	EA		7/8" Rod Size, C-Clamp Style Beam Clamp	54.34	13.01
26 05 29 00-0466 Bottom Mount I-Beam Clamps (26 05 29 00-0451)					
Note: Type 21. For attaching threaded rod centered under beam flanges.					
26 05 29 00-0467	EA		3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	59.47	13.01
26 05 29 00-0468	EA		1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	88.42	14.20
26 05 29 00-0469	EA		5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	127.28	15.61
26 05 29 00-0470	EA		3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	152.61	17.34
26 05 29 00-0471	EA		1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	374.09	19.51
26 05 29 00-0472 Steel U-Bolts (26 05 29 00-0451)					
Note: Type 24. Includes plate and nuts.					
26 05 29 00-0473	EA		1/2" Pipe Size, Zinc Plated Steel, U-Bolt	16.79	7.80
26 05 29 00-0474	EA		3/4" Pipe Size, Zinc Plated Steel, U-Bolt	18.27	8.21

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 05 29 00-0475	EA	1" Pipe Size, Zinc Plated Steel, U-Bolt	19.71	8.67
26 05 29 00-0476	EA	1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	22.53	9.18
26 05 29 00-0477	EA	1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	23.22	9.75
26 05 29 00-0478	EA	2" Pipe Size, Zinc Plated Steel, U-Bolt	24.85	10.41
26 05 29 00-0479	EA	2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	36.58	11.15
26 05 29 00-0480	EA	3" Pipe Size, Zinc Plated Steel, U-Bolt	40.39	12.00
26 05 29 00-0481	EA	4" Pipe Size, Zinc Plated Steel, U-Bolt	49.09	13.01
26 05 29 00-0482 Stainless Steel Threaded Rod (26 05 29 00-0403)				
26 05 29 00-0483	LF	1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	3.56	0.65
		For 316 Stainless Steel, Add	0.92	
26 05 29 00-0484	LF	5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	5.29	0.71
		For 316 Stainless Steel, Add	1.56	
26 05 29 00-0485	LF	3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.78	0.82
		For 316 Stainless Steel, Add	2.09	
26 05 29 00-0486	LF	7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	9.34	0.83
		For 316 Stainless Steel, Add	3.10	
26 05 29 00-0487	LF	1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.17	0.87
		For 316 Stainless Steel, Add	3.82	
26 05 29 00-0488	LF	5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	16.63	0.88
		For 316 Stainless Steel, Add	6.02	
26 05 29 00-0489	LF	3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	23.20	0.89
		For 316 Stainless Steel, Add	8.67	
26 05 29 00-0490	LF	7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	31.84	0.92
		For 316 Stainless Steel, Add	12.15	
26 05 29 00-0491	LF	1" Diameter, 304/18-8 Stainless Steel Threaded Rod	40.89	1.08
		For 316 Stainless Steel, Add	15.68	
26 05 29 00-0492	LF	1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	86.31	1.30
		For 316 Stainless Steel, Add	33.86	
26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Supports (26 05 29)				
Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.				
26 05 29 00-0494 Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0493)				
26 05 29 00-0495 Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0494)				
26 05 29 00-0496	EA	1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	67.12	25.96
26 05 29 00-0497	EA	3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	72.96	28.30
26 05 29 00-0498	EA	1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	77.99	31.15
26 05 29 00-0499	EA	1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	93.13	34.66
26 05 29 00-0500	EA	1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	107.42	38.94
26 05 29 00-0501	EA	2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	127.92	42.83
26 05 29 00-0502	EA	2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	139.87	46.72
26 05 29 00-0503	EA	3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	153.91	50.62
26 05 29 00-0504	EA	3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	162.71	54.51
26 05 29 00-0505	EA	4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	175.79	58.40
26 05 29 00-0506 Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0494)				
26 05 29 00-0507	EA	1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	71.72	25.96
26 05 29 00-0508	EA	3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	76.08	28.30
26 05 29 00-0509	EA	1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	87.34	31.15
26 05 29 00-0510	EA	1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	96.45	34.66
26 05 29 00-0511	EA	1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	108.70	38.94
26 05 29 00-0512	EA	2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	125.72	42.83
26 05 29 00-0513	EA	2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	144.03	46.72
26 05 29 00-0514	EA	3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	159.43	50.62
26 05 29 00-0515	EA	3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	169.64	54.51
26 05 29 00-0516	EA	4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	176.71	58.40
26 05 29 00-0517 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0494)				
26 05 29 00-0518	EA	1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	67.93	25.70
26 05 29 00-0519	EA	3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	73.10	28.04
26 05 29 00-0520	EA	1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	82.69	31.15
26 05 29 00-0521	EA	1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	96.65	34.27
26 05 29 00-0522	EA	1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	125.03	38.94
26 05 29 00-0523	EA	2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	137.10	42.83
26 05 29 00-0524 Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0493)				
26 05 29 00-0525 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0524)				
26 05 29 00-0526	EA	1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	7.85	0.78
26 05 29 00-0527	EA	3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	8.51	0.78
26 05 29 00-0528	EA	1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	12.45	0.78
26 05 29 00-0529	EA	1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	15.11	0.78
26 05 29 00-0530	EA	1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	19.85	0.78
26 05 29 00-0531	EA	2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	29.75	0.78
26 05 29 00-0532	EA	2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	39.59	0.78



Electrical		26
Common Work Results for Electrical		26 05
Hangers and Supports for Electrical Systems		26 05 29

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0533	EA		3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	52.99	0.78
26 05 29 00-0534	EA		3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	93.68	0.78
26 05 29 00-0535	EA		4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	99.55	0.78
26 05 29 00-0536 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0524)					
26 05 29 00-0537	EA		1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.49	1.55
26 05 29 00-0538	EA		3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.56	1.55
26 05 29 00-0539	EA		1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	15.96	1.55
26 05 29 00-0540	EA		1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.01	1.55
26 05 29 00-0541	EA		1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	20.56	1.55
26 05 29 00-0542	EA		2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	23.55	1.55
26 05 29 00-0543	EA		2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	26.46	1.55
26 05 29 00-0544	EA		3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	27.65	1.55
26 05 29 00-0545	EA		3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	29.51	1.55
26 05 29 00-0546	EA		4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	31.99	1.55
26 05 29 00-0547 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0493)					
26 05 29 00-0548 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0547)					
26 05 29 00-0549	EA		1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	14.07	1.55
26 05 29 00-0550	EA		3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	16.33	1.55
26 05 29 00-0551	EA		1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	20.48	1.55
26 05 29 00-0552	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	23.91	1.55
26 05 29 00-0553	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	31.93	1.55
26 05 29 00-0554	EA		2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	56.54	1.55
26 05 29 00-0555	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	78.05	1.55
26 05 29 00-0556	EA		3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	106.49	1.55
26 05 29 00-0557	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	186.21	1.55
26 05 29 00-0558	EA		4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	186.21	1.55
26 05 29 00-0559 Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0493)					
26 05 29 00-0560 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0559)					
26 05 29 00-0561	LF		3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	9.69	1.05
26 05 29 00-0562	LF		1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	11.92	1.17
26 05 29 00-0563 Attachments (26 05 29 00-0493)					
26 05 29 00-0564 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0563)					
26 05 29 00-0565	EA		1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	19.83	7.80
26 05 29 00-0566	EA		3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	20.51	8.19
26 05 29 00-0567	EA		1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	21.61	8.72
26 05 29 00-0568	EA		1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	22.99	9.24
26 05 29 00-0569	EA		1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	24.48	9.75
26 05 29 00-0570	EA		2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	27.42	10.41
26 05 29 00-0571	EA		2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	38.94	11.19
26 05 29 00-0572	EA		3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	40.91	11.96
26 05 29 00-0573	EA		4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	43.63	13.01
26 05 29 00-0574	EA		5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	70.12	14.83
26 05 29 00-0575	EA		6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	86.71	17.17
26 05 29 00-0576 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0563)					
26 05 29 00-0577	EA		1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	68.61	25.70
26 05 29 00-0578	EA		5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	79.58	25.70
26 05 29 00-0579	EA		3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	84.10	25.70
26 05 29 00-0580	EA		1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	92.61	27.25
26 05 29 00-0581	EA		1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	108.32	31.15
26 05 29 00-0582 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0563)					
Note: Includes stainless steel nuts and bolts.					
26 05 29 00-0583	EA		1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	25.08	8.57
26 05 29 00-0584	EA		3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	26.41	9.35
26 05 29 00-0585	EA		1" Polyvinyl Chloride (PVC) Coated Pipe Strap	28.77	10.12
26 05 29 00-0586	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	32.40	11.68
26 05 29 00-0587	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	37.08	13.24
26 05 29 00-0588	EA		2" Polyvinyl Chloride (PVC) Coated Pipe Strap	41.17	14.01
26 05 29 00-0589	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	45.50	15.58
26 05 29 00-0590	EA		3" Polyvinyl Chloride (PVC) Coated Pipe Strap	54.01	17.13
26 05 29 00-0591	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	58.99	17.92
26 05 29 00-0592	EA		4" Polyvinyl Chloride (PVC) Coated Pipe Strap	62.03	19.47
26 05 29 00-0593	EA		5" Polyvinyl Chloride (PVC) Coated Pipe Strap	66.36	21.81
26 05 29 00-0594 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0493)					
26 05 29 00-0595	LF		A12, Polyvinyl Chloride (PVC) Coated Channel	25.59	3.89

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0596	LF		A12A, Polyvinyl Chloride (PVC) Coated Channel.....	45.20	5.45
26 05 29 00-0597	LF		A12P, Polyvinyl Chloride (PVC) Coated Channel.....	27.30	3.89
26 05 29 00-0598	LF		C14, Polyvinyl Chloride (PVC) Coated Channel.....	20.33	3.89
26 05 29 00-0599	LF		C14P, Polyvinyl Chloride (PVC) Coated Channel.....	21.39	3.89
26 05 29 00-0600			Polymer Concrete Pads (26 05 29)		
			Note: Excludes excavation and backfill.		
26 05 29 00-0601			Polymer Concrete, Box Pads (26 05 29 00-0600)		
26 05 29 00-0602	EA		24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,419.48	132.57
26 05 29 00-0603	EA		25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,467.17	132.57
26 05 29 00-0604	EA		40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,905.48	132.57
26 05 29 00-0605	EA		40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,978.16	132.57
26 05 29 00-0606	EA		52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,837.83	132.57
26 05 29 00-0607	EA		44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	2,181.03	132.57
26 05 29 00-0608	EA		40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	2,444.19	132.57
26 05 29 00-0609	EA		52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	2,338.37	165.72
26 05 29 00-0610	EA		74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	3,567.93	165.72
26 05 29 00-0611	EA		93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	4,803.57	165.72
26 05 29 00-0612			Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0600)		
26 05 29 00-0613	EA		42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	678.35	69.36
26 05 29 00-0614	EA		48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	808.65	69.36
26 05 29 00-0615	EA		60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,053.06	99.43
26 05 29 00-0616	EA		54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,101.49	99.43
26 05 29 00-0617	EA		57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,594.46	99.43
26 05 29 00-0618	EA		72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,662.98	99.43
26 05 29 00-0619	EA		64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,790.65	99.43
26 05 29 00-0620	EA		72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,790.65	99.43
26 05 29 00-0621	EA		76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,394.55	99.43
26 05 29 00-0622	EA		96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,852.21	99.43
26 05 29 00-0623			Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0600)		
26 05 29 00-0624	EA		24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	402.38	69.36
26 05 29 00-0625	EA		24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	435.87	69.36
26 05 29 00-0626	EA		24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	466.39	69.36
26 05 29 00-0627	EA		24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad.....	567.74	69.36
26 05 29 00-0628	EA		40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	522.51	69.36
26 05 29 00-0629	EA		42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	543.83	69.36
26 05 29 00-0630	EA		48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	599.08	69.36
26 05 29 00-0631	EA		48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	631.31	69.36
26 05 29 00-0632	EA		54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	738.96	69.36
26 05 29 00-0633	EA		56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad.....	916.27	69.36
26 05 29 00-0634	EA		64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,356.97	99.43
26 05 29 00-0635	EA		66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,421.77	99.43
26 05 29 00-0636	EA		75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,442.22	99.43
26 05 29 00-0637	EA		90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	1,578.46	99.43
26 05 29 00-0638	EA		84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	3,400.70	99.43
26 05 29 00-0639	EA		96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad.....	4,011.07	99.43

26 05 33 Raceway and Boxes for Electrical Systems (26 05)**26 05 33 13 Conduit for Electrical Systems (26 05 33)****26 05 33 13-0001 Conduit Assemblies With Wire (26 05 33 13)**

Note: Includes conduit, field bending conduit up to and including 1", fittings and wire. Excludes hangers or supports.

26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)

Note: Includes conduit, field bends, fittings, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0594 for larger EMT conduit.

26 05 33 13-0003	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	959.92	289.86
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			For Work In Restricted Working Space, Add	248.49	
			For 2 #12 THWN Conductor Instead Of THHN, Add	1.91	
26 05 33 13-0004	CLF		1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,050.17	314.77
			Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
			For Work In Restricted Working Space, Add	269.84	
			For 3 #12 THWN Conductor Instead Of THHN, Add	2.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0005	CLF	1/2"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,140.42 291.19 3.82	339.68
26 05 33 13-0006	CLF	1/2"	Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,014.68 259.17 2.86	302.32
26 05 33 13-0007	CLF	1/2"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,126.39 284.07 4.29	331.37
26 05 33 13-0008	CLF	1/2"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,238.09 308.98 5.73	360.43
26 05 33 13-0009	CLF	1/2"	Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,137.93 280.52 4.99	327.22
26 05 33 13-0010	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,063.08 267.85 1.91	312.51
26 05 33 13-0011	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,153.33 289.20 2.86	337.42
26 05 33 13-0012	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,243.59 310.55	362.33
26 05 33 13-0013	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,333.85 331.90 4.77	387.24
26 05 33 13-0014	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,117.84 278.52 2.86	324.97
26 05 33 13-0015	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,229.55 303.43 4.29	354.03
26 05 33 13-0016	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,341.26 328.34 5.73	383.08
26 05 33 13-0017	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,452.96 353.24 7.16	412.14
26 05 33 13-0018	CLF	3/4"	Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,397.76 331.90 7.49	387.24

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0019	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,554.42 363.92 9.99	424.59	
26 05 33 13-0020	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,398.73 321.22 8.26	374.78	
26 05 33 13-0021	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,611.74 360.36 12.38	420.45	
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,204.64 288.34 1.91	336.36	
26 05 33 13-0023	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,294.89 309.69 2.86	361.25	
26 05 33 13-0024	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,385.15 331.04	386.16	
26 05 33 13-0025	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,475.41 352.39 4.77	411.07	
26 05 33 13-0026	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,259.41 299.02 2.86	348.81	
26 05 33 13-0027	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,371.11 323.92 4.29	377.86	
26 05 33 13-0028	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,482.83 348.83 5.73	406.92	
26 05 33 13-0029	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,594.53 373.74 7.16	435.98	
26 05 33 13-0030	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,539.32 352.39 7.49	411.07	
26 05 33 13-0031	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,753.31 380.85 12.38	444.28	
26 05 33 13-0032	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	1,966.33 419.99 16.51	489.94	



MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-0033 Rigid Galvanized Steel (RGS) Conduit Assemblies (26 05 33 13-0001)				
Note: Includes conduit, field bends, fittings, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0240 for larger copper conductor, 26 05 33 13-0060 for larger RGS conduit.				
26 05 33 13-0034	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,267.91		329.94
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		282.79		
For 2 #12 THWN Conductor Instead Of THHN, Add		1.91		
26 05 33 13-0035	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,358.17		354.85
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		304.14		
For 3 #12 THWN Conductor Instead Of THHN, Add		2.86		
26 05 33 13-0036	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,322.67		342.40
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		293.47		
For 2 #10 THWN Conductor Instead Of THHN, Add		2.86		
26 05 33 13-0037	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,434.38		371.46
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		318.37		
For 3 #10 THWN Conductor Instead Of THHN, Add		4.29		
26 05 33 13-0038	CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,445.91		367.31
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		314.81		
For 2 #8 THWN Conductor Instead Of THHN, Add		4.99		
26 05 33 13-0039	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,393.13		351.89
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		301.58		
For 2 #12 THWN Conductor Instead Of THHN, Add		1.91		
26 05 33 13-0040	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,483.38		376.80
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		322.93		
For 3 #12 THWN Conductor Instead Of THHN, Add		2.86		
26 05 33 13-0041	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,573.63		401.70
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		344.27		
26 05 33 13-0042	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,447.88		364.35
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		312.25		
For 2 #10 THWN Conductor Instead Of THHN, Add		2.86		
26 05 33 13-0043	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,559.60		393.40
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		337.16		
For 3 #10 THWN Conductor Instead Of THHN, Add		4.29		
26 05 33 13-0044	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,671.30		422.45
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		362.06		
For 4 #10 THWN Conductor Instead Of THHN, Add		5.73		
26 05 33 13-0045	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,727.79		426.61
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		365.62		
For 3 #8 THWN Conductor Instead Of THHN, Add		7.49		
26 05 33 13-0046	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor	1,884.46		463.97
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		397.64		
For 4 #8 THWN Conductor Instead Of THHN, Add		9.99		
26 05 33 13-0047	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	1,728.78		414.15
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		354.95		
For 2 #6 THWN Conductor Instead Of THHN, Add		8.26		
26 05 33 13-0048	CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor	1,941.78		459.82
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		394.09		
For 3 #6 THWN Conductor Instead Of THHN, Add		12.38		
26 05 33 13-0049	CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,788.40		420.20
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		360.18		
For 3 #12 THWN Conductor Instead Of THHN, Add		2.86		
26 05 33 13-0050	CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor	1,878.66		445.11
Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available.				
For Work In Restricted Working Space, Add		381.53		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0051	CLF	1"	Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #12 THWN Conductor Instead Of THHN, Add	1,968.91 402.88 4.77	470.01
26 05 33 13-0052	CLF	1"	Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #10 THWN Conductor Instead Of THHN, Add	1,864.62 374.41 4.29	436.80
26 05 33 13-0053	CLF	1"	Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #10 THWN Conductor Instead Of THHN, Add	1,976.32 399.32 5.73	465.87
26 05 33 13-0054	CLF	1"	Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 5 #10 THWN Conductor Instead Of THHN, Add	2,088.03 424.22 7.16	494.92
26 05 33 13-0055	CLF	1"	Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #8 THWN Conductor Instead Of THHN, Add	2,032.82 402.88 7.49	470.01
26 05 33 13-0056	CLF	1"	Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 3 #6 THWN Conductor Instead Of THHN, Add	2,246.81 431.34 12.38	503.22
26 05 33 13-0057	CLF	1"	Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. For Work In Restricted Working Space, Add For 4 #6 THWN Conductor Instead Of THHN, Add	2,459.82 470.48 16.51	548.88
26 05 33 13-0058			Conduit ^(26 05 33 13) Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0059			Conduit Installed Above Grade ^(26 05 33 13-0058) See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0060			Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit ^(26 05 33 13-0059) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0061			Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ^(26 05 33 13-0060) Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0062	LF	1/2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	9.08 -0.13 -0.52 -0.75 0.65 1.63 0.98 1.96 0.65 1.30 1.63 2.28 2.61 3.26 3.59	2.61
26 05 33 13-0063	LF	3/4"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	10.75 -0.16 -0.62 -0.89 0.76 1.90 1.14 2.28 0.76 1.52 1.90 2.66 3.04 3.80 4.17	2.85



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0064	LF	1"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	15.08	3.32
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.88	
			For >1,000, Deduct	-1.25	
			For Installation In Metal Stud Wall, Add	1.02	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.55	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.53	
			For Work In Restricted Working Space, Add	3.06	
			For Elevated Installation >10' To 15', Add	1.02	
			For Elevated Installation >15' To 20', Add	2.04	
			For Elevated Installation >20' To 25', Add	2.55	
			For Elevated Installation >25' To 30', Add	3.57	
			For Elevated Installation >30' To 35', Add	4.08	
			For Elevated Installation >35' To 40', Add	5.10	
			For Elevated Installation >40', Add	5.61	
26 05 33 13-0065	LF	1-1/4"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	17.30	3.79
			For >250 To 500, Deduct	-0.33	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.46	
			For Installation In Metal Stud Wall, Add	1.08	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.70	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.62	
			For Work In Restricted Working Space, Add	3.24	
			For Elevated Installation >10' To 15', Add	1.08	
			For Elevated Installation >15' To 20', Add	2.16	
			For Elevated Installation >20' To 25', Add	2.70	
			For Elevated Installation >25' To 30', Add	3.78	
			For Elevated Installation >30' To 35', Add	4.32	
			For Elevated Installation >35' To 40', Add	5.40	
			For Elevated Installation >40', Add	5.93	
26 05 33 13-0066	LF	1-1/2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	19.84	4.27
			For >250 To 500, Deduct	-0.40	
			For >500 To 1,000, Deduct	-1.19	
			For >1,000, Deduct	-1.69	
			For Installation In Metal Stud Wall, Add	1.19	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.97	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.78	
			For Work In Restricted Working Space, Add	3.56	
			For Elevated Installation >10' To 15', Add	1.19	
			For Elevated Installation >15' To 20', Add	2.37	
			For Elevated Installation >20' To 25', Add	2.97	
			For Elevated Installation >25' To 30', Add	4.15	
			For Elevated Installation >30' To 35', Add	4.74	
			For Elevated Installation >35' To 40', Add	5.93	
			For Elevated Installation >40', Add	6.52	
26 05 33 13-0067	LF	2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	25.26	5.22
			For >250 To 500, Deduct	-0.53	
			For >500 To 1,000, Deduct	-1.53	
			For >1,000, Deduct	-2.16	
			For Installation In Metal Stud Wall, Add	1.46	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.65	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.19	
			For Work In Restricted Working Space, Add	4.38	
			For Elevated Installation >10' To 15', Add	1.46	
			For Elevated Installation >15' To 20', Add	2.92	
			For Elevated Installation >20' To 25', Add	3.65	
			For Elevated Installation >25' To 30', Add	5.11	
			For Elevated Installation >30' To 35', Add	5.84	
			For Elevated Installation >35' To 40', Add	7.30	
			For Elevated Installation >40', Add	8.02	
26 05 33 13-0068	LF	2-1/2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	37.49	7.12
			For >250 To 500, Deduct	-0.88	
			For >500 To 1,000, Deduct	-2.32	
			For >1,000, Deduct	-3.25	
			For Installation In Metal Stud Wall, Add	1.98	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.95	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.97	
			For Work In Restricted Working Space, Add	5.94	
			For Elevated Installation >10' To 15', Add	1.98	
			For Elevated Installation >15' To 20', Add	3.96	
			For Elevated Installation >20' To 25', Add	4.95	
			For Elevated Installation >25' To 30', Add	6.93	
			For Elevated Installation >30' To 35', Add	7.92	
			For Elevated Installation >35' To 40', Add	9.91	
			For Elevated Installation >40', Add	10.90	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0069	LF		3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	49.18	9.48
			For >250 To 500, Deduct	-1.13	
			For >500 To 1,000, Deduct	-3.02	
			For >1,000, Deduct	-4.25	
			For Installation In Metal Stud Wall, Add	2.67	
			For Installation In Wood Stud Wall (Includes Drilling), Add	6.67	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.00	
			For Work In Restricted Working Space, Add	8.00	
			For Elevated Installation >10' To 15', Add	2.67	
			For Elevated Installation >15' To 20', Add	5.34	
			For Elevated Installation >20' To 25', Add	6.67	
			For Elevated Installation >25' To 30', Add	9.34	
			For Elevated Installation >30' To 35', Add	10.67	
			For Elevated Installation >35' To 40', Add	13.34	
			For Elevated Installation >40', Add	14.67	
26 05 33 13-0070	LF		3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	59.11	11.86
			For >250 To 500, Deduct	-1.37	
			For >500 To 1,000, Deduct	-3.64	
			For >1,000, Deduct	-5.12	
			For Installation In Metal Stud Wall, Add	3.17	
			For Installation In Wood Stud Wall (Includes Drilling), Add	7.92	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.75	
			For Work In Restricted Working Space, Add	9.50	
			For Elevated Installation >10' To 15', Add	3.17	
			For Elevated Installation >15' To 20', Add	6.33	
			For Elevated Installation >20' To 25', Add	7.92	
			For Elevated Installation >25' To 30', Add	11.08	
			For Elevated Installation >30' To 35', Add	12.66	
			For Elevated Installation >35' To 40', Add	15.83	
			For Elevated Installation >40', Add	17.41	
26 05 33 13-0071	LF		4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	70.06	14.23
			For >250 To 500, Deduct	-1.68	
			For >500 To 1,000, Deduct	-4.34	
			For >1,000, Deduct	-6.09	
			For Installation In Metal Stud Wall, Add	3.65	
			For Installation In Wood Stud Wall (Includes Drilling), Add	9.13	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.48	
			For Work In Restricted Working Space, Add	10.96	
			For Elevated Installation >10' To 15', Add	3.65	
			For Elevated Installation >15' To 20', Add	7.31	
			For Elevated Installation >20' To 25', Add	9.13	
			For Elevated Installation >25' To 30', Add	12.79	
			For Elevated Installation >30' To 35', Add	14.61	
			For Elevated Installation >35' To 40', Add	18.27	
			For Elevated Installation >40', Add	20.09	
26 05 33 13-0072	LF		5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	109.80	18.02
			For >250 To 500, Deduct	-3.24	
			For >500 To 1,000, Deduct	-7.11	
			For >1,000, Deduct	-9.85	
			For Installation In Metal Stud Wall, Add	4.51	
			For Installation In Wood Stud Wall (Includes Drilling), Add	11.27	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.76	
			For Work In Restricted Working Space, Add	13.52	
			For Elevated Installation >10' To 15', Add	4.51	
			For Elevated Installation >15' To 20', Add	9.01	
			For Elevated Installation >20' To 25', Add	11.27	
			For Elevated Installation >25' To 30', Add	15.77	
			For Elevated Installation >30' To 35', Add	18.03	
			For Elevated Installation >35' To 40', Add	22.54	
			For Elevated Installation >40', Add	24.79	
26 05 33 13-0073	LF		6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	147.92	22.77
			For >250 To 500, Deduct	-4.55	
			For >500 To 1,000, Deduct	-9.67	
			For >1,000, Deduct	-13.37	
			For Installation In Metal Stud Wall, Add	5.69	
			For Installation In Wood Stud Wall (Includes Drilling), Add	14.23	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	8.54	
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.39	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.93	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.47	
			For Elevated Installation >40', Add	31.31	

26 05 33 13-0074 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0060)
See CSI section 26 05 33 13-2508 for conduit field bending.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0075	EA		2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	98.23	26.21
			For Work In Restricted Working Space, Add	19.64	
			For Elevated Installation >10' To 15', Add	6.55	
			For Elevated Installation >15' To 20', Add	13.09	
			For Elevated Installation >20' To 25', Add	16.36	
			For Elevated Installation >25' To 30', Add	22.91	
			For Elevated Installation >30' To 35', Add	26.18	
			For Elevated Installation >35' To 40', Add	32.73	
			For Elevated Installation >40', Add	36.00	
26 05 33 13-0076	EA		2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	140.24	32.74
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
26 05 33 13-0077	EA		3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	198.45	44.60
			For Work In Restricted Working Space, Add	33.44	
			For Elevated Installation >10' To 15', Add	11.15	
			For Elevated Installation >15' To 20', Add	22.30	
			For Elevated Installation >20' To 25', Add	27.87	
			For Elevated Installation >25' To 30', Add	39.02	
			For Elevated Installation >30' To 35', Add	44.59	
			For Elevated Installation >35' To 40', Add	55.74	
			For Elevated Installation >40', Add	61.31	
26 05 33 13-0078	EA		3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	261.70	50.29
			For Work In Restricted Working Space, Add	37.72	
			For Elevated Installation >10' To 15', Add	12.57	
			For Elevated Installation >15' To 20', Add	25.15	
			For Elevated Installation >20' To 25', Add	31.44	
			For Elevated Installation >25' To 30', Add	44.01	
			For Elevated Installation >30' To 35', Add	50.30	
			For Elevated Installation >35' To 40', Add	62.87	
			For Elevated Installation >40', Add	69.16	
26 05 33 13-0079	EA		4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	320.32	65.47
			For Work In Restricted Working Space, Add	49.09	
			For Elevated Installation >10' To 15', Add	16.36	
			For Elevated Installation >15' To 20', Add	32.73	
			For Elevated Installation >20' To 25', Add	40.91	
			For Elevated Installation >25' To 30', Add	57.27	
			For Elevated Installation >30' To 35', Add	65.45	
			For Elevated Installation >35' To 40', Add	81.82	
			For Elevated Installation >40', Add	90.00	
26 05 33 13-0080	EA		5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	523.97	106.74
			For Work In Restricted Working Space, Add	80.06	
			For Elevated Installation >10' To 15', Add	26.69	
			For Elevated Installation >15' To 20', Add	53.37	
			For Elevated Installation >20' To 25', Add	66.72	
			For Elevated Installation >25' To 30', Add	93.40	
			For Elevated Installation >30' To 35', Add	106.75	
			For Elevated Installation >35' To 40', Add	133.44	
			For Elevated Installation >40', Add	146.78	
26 05 33 13-0081	EA		6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	787.70	160.35
			For Work In Restricted Working Space, Add	120.26	
			For Elevated Installation >10' To 15', Add	40.09	
			For Elevated Installation >15' To 20', Add	80.17	
			For Elevated Installation >20' To 25', Add	100.21	
			For Elevated Installation >25' To 30', Add	140.30	
			For Elevated Installation >30' To 35', Add	160.34	
			For Elevated Installation >35' To 40', Add	200.43	
			For Elevated Installation >40', Add	220.47	
26 05 33 13-0082			Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0083	EA		1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	35.20	11.74
			For Work In Restricted Working Space, Add	8.63	
			For Elevated Installation >10' To 15', Add	2.94	
			For Elevated Installation >15' To 20', Add	5.89	
			For Elevated Installation >20' To 25', Add	7.36	
			For Elevated Installation >25' To 30', Add	10.30	
			For Elevated Installation >30' To 35', Add	11.78	
			For Elevated Installation >35' To 40', Add	14.72	
			For Elevated Installation >40', Add	16.19	
26 05 33 13-0084	EA		3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	44.21	14.59
			For Work In Restricted Working Space, Add	10.98	
			For Elevated Installation >10' To 15', Add	3.66	
			For Elevated Installation >15' To 20', Add	7.32	
			For Elevated Installation >20' To 25', Add	9.15	
			For Elevated Installation >25' To 30', Add	12.81	
			For Elevated Installation >30' To 35', Add	14.64	
			For Elevated Installation >35' To 40', Add	18.31	
			For Elevated Installation >40', Add	20.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0085	EA		1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	56.34	17.91
			For Work In Restricted Working Space, Add	13.40	
			For Elevated Installation >10' To 15', Add	4.47	
			For Elevated Installation >15' To 20', Add	8.93	
			For Elevated Installation >20' To 25', Add	11.16	
			For Elevated Installation >25' To 30', Add	15.63	
			For Elevated Installation >30' To 35', Add	17.86	
			For Elevated Installation >35' To 40', Add	22.33	
			For Elevated Installation >40', Add	24.56	
26 05 33 13-0086	EA		1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	71.83	20.75
			For Work In Restricted Working Space, Add	15.55	
			For Elevated Installation >10' To 15', Add	5.18	
			For Elevated Installation >15' To 20', Add	10.37	
			For Elevated Installation >20' To 25', Add	12.96	
			For Elevated Installation >25' To 30', Add	18.14	
			For Elevated Installation >30' To 35', Add	20.74	
			For Elevated Installation >35' To 40', Add	25.92	
			For Elevated Installation >40', Add	28.51	
26 05 33 13-0087	EA		1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	83.35	23.83
			For Work In Restricted Working Space, Add	17.85	
			For Elevated Installation >10' To 15', Add	5.95	
			For Elevated Installation >15' To 20', Add	11.90	
			For Elevated Installation >20' To 25', Add	14.88	
			For Elevated Installation >25' To 30', Add	20.83	
			For Elevated Installation >30' To 35', Add	23.80	
			For Elevated Installation >35' To 40', Add	29.75	
			For Elevated Installation >40', Add	32.73	
26 05 33 13-0088	EA		2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	98.23	26.21
			For Work In Restricted Working Space, Add	19.64	
			For Elevated Installation >10' To 15', Add	6.55	
			For Elevated Installation >15' To 20', Add	13.09	
			For Elevated Installation >20' To 25', Add	16.36	
			For Elevated Installation >25' To 30', Add	22.91	
			For Elevated Installation >30' To 35', Add	26.18	
			For Elevated Installation >35' To 40', Add	32.73	
			For Elevated Installation >40', Add	36.00	
26 05 33 13-0089	EA		2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	137.87	32.74
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
26 05 33 13-0090	EA		3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	189.21	44.60
			For Work In Restricted Working Space, Add	33.44	
			For Elevated Installation >10' To 15', Add	11.15	
			For Elevated Installation >15' To 20', Add	22.30	
			For Elevated Installation >20' To 25', Add	27.87	
			For Elevated Installation >25' To 30', Add	39.02	
			For Elevated Installation >30' To 35', Add	44.59	
			For Elevated Installation >35' To 40', Add	55.74	
			For Elevated Installation >40', Add	61.31	
26 05 33 13-0091	EA		3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	248.71	50.29
			For Work In Restricted Working Space, Add	37.72	
			For Elevated Installation >10' To 15', Add	12.57	
			For Elevated Installation >15' To 20', Add	25.15	
			For Elevated Installation >20' To 25', Add	31.44	
			For Elevated Installation >25' To 30', Add	44.01	
			For Elevated Installation >30' To 35', Add	50.30	
			For Elevated Installation >35' To 40', Add	62.87	
			For Elevated Installation >40', Add	69.16	
26 05 33 13-0092	EA		4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	303.04	65.47
			For Work In Restricted Working Space, Add	49.09	
			For Elevated Installation >10' To 15', Add	16.36	
			For Elevated Installation >15' To 20', Add	32.73	
			For Elevated Installation >20' To 25', Add	40.91	
			For Elevated Installation >25' To 30', Add	57.27	
			For Elevated Installation >30' To 35', Add	65.45	
			For Elevated Installation >35' To 40', Add	81.82	
			For Elevated Installation >40', Add	90.00	
26 05 33 13-0093	EA		5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	523.97	106.74
			For Work In Restricted Working Space, Add	80.06	
			For Elevated Installation >10' To 15', Add	26.69	
			For Elevated Installation >15' To 20', Add	53.37	
			For Elevated Installation >20' To 25', Add	66.72	
			For Elevated Installation >25' To 30', Add	93.40	
			For Elevated Installation >30' To 35', Add	106.75	
			For Elevated Installation >35' To 40', Add	133.44	
			For Elevated Installation >40', Add	146.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0094	EA		6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 787.70		160.35
			For Work In Restricted Working Space, Add	120.26	
			For Elevated Installation >10' To 15', Add	40.09	
			For Elevated Installation >15' To 20', Add	80.17	
			For Elevated Installation >20' To 25', Add	100.21	
			For Elevated Installation >25' To 30', Add	140.30	
			For Elevated Installation >30' To 35', Add	160.34	
			For Elevated Installation >35' To 40', Add	200.43	
			For Elevated Installation >40', Add	220.47	
26 05 33 13-0095			Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0060)		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0096	EA		1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow 86.43		29.29
			For Work In Restricted Working Space, Add	17.58	
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
26 05 33 13-0097	EA		1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....99.62		33.92
			For Work In Restricted Working Space, Add	20.35	
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
26 05 33 13-0098	EA		1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....115.16		38.55
			For Work In Restricted Working Space, Add	23.13	
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
26 05 33 13-0099	EA		2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow 129.66		42.40
			For Work In Restricted Working Space, Add	25.44	
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
26 05 33 13-0100			Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0060)		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0101	EA		1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 93.66		29.29
			For Work In Restricted Working Space, Add	17.58	
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
26 05 33 13-0102	EA		1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....108.90		33.92
			For Work In Restricted Working Space, Add	20.35	
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
26 05 33 13-0103	EA		1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....119.39		38.55
			For Work In Restricted Working Space, Add	23.13	
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0104	EA		2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 134.38		42.40
			<i>For Work In Restricted Working Space, Add</i>	25.44	
			<i>For Elevated Installation >10' To 15', Add</i>	8.48	
			<i>For Elevated Installation >15' To 20', Add</i>	16.96	
			<i>For Elevated Installation >20' To 25', Add</i>	21.20	
			<i>For Elevated Installation >25' To 30', Add</i>	29.68	
			<i>For Elevated Installation >30' To 35', Add</i>	33.92	
			<i>For Elevated Installation >35' To 40', Add</i>	42.40	
			<i>For Elevated Installation >40', Add</i>	46.64	
26 05 33 13-0105	EA		2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 178.35		53.19
			<i>For Work In Restricted Working Space, Add</i>	31.92	
			<i>For Elevated Installation >10' To 15', Add</i>	10.64	
			<i>For Elevated Installation >15' To 20', Add</i>	21.28	
			<i>For Elevated Installation >20' To 25', Add</i>	26.60	
			<i>For Elevated Installation >25' To 30', Add</i>	37.24	
			<i>For Elevated Installation >30' To 35', Add</i>	42.56	
			<i>For Elevated Installation >35' To 40', Add</i>	53.20	
			<i>For Elevated Installation >40', Add</i>	58.51	
26 05 33 13-0106	EA		3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 240.11		72.47
			<i>For Work In Restricted Working Space, Add</i>	43.48	
			<i>For Elevated Installation >10' To 15', Add</i>	14.49	
			<i>For Elevated Installation >15' To 20', Add</i>	28.99	
			<i>For Elevated Installation >20' To 25', Add</i>	36.24	
			<i>For Elevated Installation >25' To 30', Add</i>	50.73	
			<i>For Elevated Installation >30' To 35', Add</i>	57.98	
			<i>For Elevated Installation >35' To 40', Add</i>	72.47	
			<i>For Elevated Installation >40', Add</i>	79.72	
26 05 33 13-0107			Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0060)		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0108	EA		1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 94.00		29.29
			<i>For Work In Restricted Working Space, Add</i>	17.58	
			<i>For Elevated Installation >10' To 15', Add</i>	5.86	
			<i>For Elevated Installation >15' To 20', Add</i>	11.72	
			<i>For Elevated Installation >20' To 25', Add</i>	14.65	
			<i>For Elevated Installation >25' To 30', Add</i>	20.51	
			<i>For Elevated Installation >30' To 35', Add</i>	23.44	
			<i>For Elevated Installation >35' To 40', Add</i>	29.30	
			<i>For Elevated Installation >40', Add</i>	32.22	
26 05 33 13-0109	EA		1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 107.99		33.92
			<i>For Work In Restricted Working Space, Add</i>	20.35	
			<i>For Elevated Installation >10' To 15', Add</i>	6.78	
			<i>For Elevated Installation >15' To 20', Add</i>	13.57	
			<i>For Elevated Installation >20' To 25', Add</i>	16.96	
			<i>For Elevated Installation >25' To 30', Add</i>	23.74	
			<i>For Elevated Installation >30' To 35', Add</i>	27.14	
			<i>For Elevated Installation >35' To 40', Add</i>	33.92	
			<i>For Elevated Installation >40', Add</i>	37.31	
26 05 33 13-0110	EA		1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 123.96		38.55
			<i>For Work In Restricted Working Space, Add</i>	23.13	
			<i>For Elevated Installation >10' To 15', Add</i>	7.71	
			<i>For Elevated Installation >15' To 20', Add</i>	15.42	
			<i>For Elevated Installation >20' To 25', Add</i>	19.27	
			<i>For Elevated Installation >25' To 30', Add</i>	26.98	
			<i>For Elevated Installation >30' To 35', Add</i>	30.84	
			<i>For Elevated Installation >35' To 40', Add</i>	38.55	
			<i>For Elevated Installation >40', Add</i>	42.40	
26 05 33 13-0111	EA		2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 144.61		42.40
			<i>For Work In Restricted Working Space, Add</i>	25.44	
			<i>For Elevated Installation >10' To 15', Add</i>	8.48	
			<i>For Elevated Installation >15' To 20', Add</i>	16.96	
			<i>For Elevated Installation >20' To 25', Add</i>	21.20	
			<i>For Elevated Installation >25' To 30', Add</i>	29.68	
			<i>For Elevated Installation >30' To 35', Add</i>	33.92	
			<i>For Elevated Installation >35' To 40', Add</i>	42.40	
			<i>For Elevated Installation >40', Add</i>	46.64	
26 05 33 13-0112	EA		2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 187.88		53.19
			<i>For Work In Restricted Working Space, Add</i>	31.92	
			<i>For Elevated Installation >10' To 15', Add</i>	10.64	
			<i>For Elevated Installation >15' To 20', Add</i>	21.28	
			<i>For Elevated Installation >20' To 25', Add</i>	26.60	
			<i>For Elevated Installation >25' To 30', Add</i>	37.24	
			<i>For Elevated Installation >30' To 35', Add</i>	42.56	
			<i>For Elevated Installation >35' To 40', Add</i>	53.20	
			<i>For Elevated Installation >40', Add</i>	58.51	
26 05 33 13-0113	EA		3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow 247.80		72.47
			<i>For Work In Restricted Working Space, Add</i>	43.48	
			<i>For Elevated Installation >10' To 15', Add</i>	14.49	
			<i>For Elevated Installation >15' To 20', Add</i>	28.99	
			<i>For Elevated Installation >20' To 25', Add</i>	36.24	
			<i>For Elevated Installation >25' To 30', Add</i>	50.73	
			<i>For Elevated Installation >30' To 35', Add</i>	57.98	
			<i>For Elevated Installation >35' To 40', Add</i>	72.47	
			<i>For Elevated Installation >40', Add</i>	79.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0114	EA	3-1/2"	Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	308.82 49.03 16.34 32.69 40.86 57.20 65.37 81.72 89.89	81.72
26 05 33 13-0115	EA	4"	Rigid Galvanized Steel (RGS) 18" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	375.22 63.83 21.28 42.55 53.19 74.47 85.11 106.39 117.02	106.39
26 05 33 13-0116 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2508 for conduit field bending.					
26 05 33 13-0117	EA	1"	Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	105.51 17.58 5.86 11.72 14.65 20.51 23.44 29.30 32.22	29.29
26 05 33 13-0118	EA	1-1/4"	Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	119.28 20.35 6.78 13.57 16.96 23.74 27.14 33.92 37.31	33.92
26 05 33 13-0119	EA	1-1/2"	Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	132.42 23.13 7.71 15.42 19.27 26.98 30.84 38.55 42.40	38.55
26 05 33 13-0120	EA	2"	Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	157.08 25.44 8.48 16.96 21.20 29.68 33.92 42.40 46.64	42.40
26 05 33 13-0121	EA	2-1/2"	Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	204.89 31.92 10.64 21.28 26.60 37.24 42.56 53.20 58.51	53.19
26 05 33 13-0122	EA	3"	Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	274.46 43.48 14.49 28.99 36.24 50.73 57.98 72.47 79.72	72.47
26 05 33 13-0123	EA	3-1/2"	Rigid Galvanized Steel (RGS) 24" Large Radius Elbow..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	334.74 49.03 16.34 32.69 40.86 57.20 65.37 81.72 89.89	81.72

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0124	EA	4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow	395.89	106.39
		For Work In Restricted Working Space, Add	63.83	
		For Elevated Installation >10' To 15', Add	21.28	
		For Elevated Installation >15' To 20', Add	42.55	
		For Elevated Installation >20' To 25', Add	53.19	
		For Elevated Installation >25' To 30', Add	74.47	
		For Elevated Installation >30' To 35', Add	85.11	
		For Elevated Installation >35' To 40', Add	106.39	
		For Elevated Installation >40', Add	117.02	
26 05 33 13-0125 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0060)				
See CSI section 26 05 33 13-2508 for conduit field bending.				
26 05 33 13-0126	EA	1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	104.81	29.29
		For Work In Restricted Working Space, Add	17.58	
		For Elevated Installation >10' To 15', Add	5.86	
		For Elevated Installation >15' To 20', Add	11.72	
		For Elevated Installation >20' To 25', Add	14.65	
		For Elevated Installation >25' To 30', Add	20.51	
		For Elevated Installation >30' To 35', Add	23.44	
		For Elevated Installation >35' To 40', Add	29.30	
		For Elevated Installation >40', Add	32.22	
26 05 33 13-0127	EA	1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	127.68	33.92
		For Work In Restricted Working Space, Add	20.35	
		For Elevated Installation >10' To 15', Add	6.78	
		For Elevated Installation >15' To 20', Add	13.57	
		For Elevated Installation >20' To 25', Add	16.96	
		For Elevated Installation >25' To 30', Add	23.74	
		For Elevated Installation >30' To 35', Add	27.14	
		For Elevated Installation >35' To 40', Add	33.92	
		For Elevated Installation >40', Add	37.31	
26 05 33 13-0128	EA	1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	141.52	38.55
		For Work In Restricted Working Space, Add	23.13	
		For Elevated Installation >10' To 15', Add	7.71	
		For Elevated Installation >15' To 20', Add	15.42	
		For Elevated Installation >20' To 25', Add	19.27	
		For Elevated Installation >25' To 30', Add	26.98	
		For Elevated Installation >30' To 35', Add	30.84	
		For Elevated Installation >35' To 40', Add	38.55	
		For Elevated Installation >40', Add	42.40	
26 05 33 13-0129	EA	2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	168.97	42.40
		For Work In Restricted Working Space, Add	25.44	
		For Elevated Installation >10' To 15', Add	8.48	
		For Elevated Installation >15' To 20', Add	16.96	
		For Elevated Installation >20' To 25', Add	21.20	
		For Elevated Installation >25' To 30', Add	29.68	
		For Elevated Installation >30' To 35', Add	33.92	
		For Elevated Installation >35' To 40', Add	42.40	
		For Elevated Installation >40', Add	46.64	
26 05 33 13-0130	EA	2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	221.21	53.19
		For Work In Restricted Working Space, Add	31.92	
		For Elevated Installation >10' To 15', Add	10.64	
		For Elevated Installation >15' To 20', Add	21.28	
		For Elevated Installation >20' To 25', Add	26.60	
		For Elevated Installation >25' To 30', Add	37.24	
		For Elevated Installation >30' To 35', Add	42.56	
		For Elevated Installation >35' To 40', Add	53.20	
		For Elevated Installation >40', Add	58.51	
26 05 33 13-0131	EA	3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	295.52	72.47
		For Work In Restricted Working Space, Add	43.48	
		For Elevated Installation >10' To 15', Add	14.49	
		For Elevated Installation >15' To 20', Add	28.99	
		For Elevated Installation >20' To 25', Add	36.24	
		For Elevated Installation >25' To 30', Add	50.73	
		For Elevated Installation >30' To 35', Add	57.98	
		For Elevated Installation >35' To 40', Add	72.47	
		For Elevated Installation >40', Add	79.72	
26 05 33 13-0132	EA	3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	360.37	81.72
		For Work In Restricted Working Space, Add	49.03	
		For Elevated Installation >10' To 15', Add	16.34	
		For Elevated Installation >15' To 20', Add	32.69	
		For Elevated Installation >20' To 25', Add	40.86	
		For Elevated Installation >25' To 30', Add	57.20	
		For Elevated Installation >30' To 35', Add	65.37	
		For Elevated Installation >35' To 40', Add	81.72	
		For Elevated Installation >40', Add	89.89	
26 05 33 13-0133	EA	4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	433.82	106.39
		For Work In Restricted Working Space, Add	63.83	
		For Elevated Installation >10' To 15', Add	21.28	
		For Elevated Installation >15' To 20', Add	42.55	
		For Elevated Installation >20' To 25', Add	53.19	
		For Elevated Installation >25' To 30', Add	74.47	
		For Elevated Installation >30' To 35', Add	85.11	
		For Elevated Installation >35' To 40', Add	106.39	
		For Elevated Installation >40', Add	117.02	



MINOR		TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION		UNIT COST	UNIT COST
26 05 33 13-0134	EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	630.84 104.07 34.69 69.38 86.73 121.42 138.76 173.46 190.80	173.46
26 05 33 13-0135	Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0060) See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0136	EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	110.96 17.58 5.86 11.72 14.65 20.51 23.44 29.30 32.22	29.29
26 05 33 13-0137	EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	131.82 20.35 6.78 13.57 16.96 23.74 27.14 33.92 37.31	33.92
26 05 33 13-0138	EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	157.45 23.13 7.71 15.42 19.27 26.98 30.84 38.55 42.40	38.55
26 05 33 13-0139	EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	178.25 25.44 8.48 16.96 21.20 29.68 33.92 42.40 46.64	42.40
26 05 33 13-0140	EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	240.56 31.92 10.64 21.28 26.60 37.24 42.56 53.20 58.51	53.19
26 05 33 13-0141	EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	313.53 43.48 14.49 28.99 36.24 50.73 57.98 72.47 79.72	72.47
26 05 33 13-0142	EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	393.47 49.03 16.34 32.69 40.86 57.20 65.37 81.72 89.89	81.72
26 05 33 13-0143	EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	451.67 63.83 21.28 42.55 53.19 74.47 85.11 106.39 117.02	106.39

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0144	EA		5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	776.45	173.46
			For Work In Restricted Working Space, Add	104.07	
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
26 05 33 13-0145	EA		6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	993.03	260.57
			For Work In Restricted Working Space, Add	156.34	
			For Elevated Installation >10' To 15', Add	52.11	
			For Elevated Installation >15' To 20', Add	104.23	
			For Elevated Installation >20' To 25', Add	130.28	
			For Elevated Installation >25' To 30', Add	182.40	
			For Elevated Installation >30' To 35', Add	208.45	
			For Elevated Installation >35' To 40', Add	260.57	
			For Elevated Installation >40', Add	286.62	
26 05 33 13-0146 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0060)					
See CSI section 26 05 33 13-2508 for conduit field bending.					
26 05 33 13-0147	EA		1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	119.97	29.29
			For Work In Restricted Working Space, Add	17.58	
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
26 05 33 13-0148	EA		1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	142.82	33.92
			For Work In Restricted Working Space, Add	20.35	
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
26 05 33 13-0149	EA		1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	169.15	38.55
			For Work In Restricted Working Space, Add	23.13	
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
26 05 33 13-0150	EA		2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	190.48	42.40
			For Work In Restricted Working Space, Add	25.44	
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
26 05 33 13-0151	EA		2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	255.36	53.19
			For Work In Restricted Working Space, Add	31.92	
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
26 05 33 13-0152	EA		3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	339.91	72.47
			For Work In Restricted Working Space, Add	43.48	
			For Elevated Installation >10' To 15', Add	14.49	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.47	
			For Elevated Installation >40', Add	79.72	
26 05 33 13-0153	EA		3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	419.93	81.72
			For Work In Restricted Working Space, Add	49.03	
			For Elevated Installation >10' To 15', Add	16.34	
			For Elevated Installation >15' To 20', Add	32.69	
			For Elevated Installation >20' To 25', Add	40.86	
			For Elevated Installation >25' To 30', Add	57.20	
			For Elevated Installation >30' To 35', Add	65.37	
			For Elevated Installation >35' To 40', Add	81.72	
			For Elevated Installation >40', Add	89.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0154	EA		4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	527.81	106.39
			For Work In Restricted Working Space, Add	63.83	
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.11	
			For Elevated Installation >35' To 40', Add	106.39	
			For Elevated Installation >40', Add	117.02	
26 05 33 13-0155	EA		5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	881.49	173.46
			For Work In Restricted Working Space, Add	104.07	
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
26 05 33 13-0156	EA		6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow	1,083.99	260.57
			For Work In Restricted Working Space, Add	156.34	
			For Elevated Installation >10' To 15', Add	52.11	
			For Elevated Installation >15' To 20', Add	104.23	
			For Elevated Installation >20' To 25', Add	130.28	
			For Elevated Installation >25' To 30', Add	182.40	
			For Elevated Installation >30' To 35', Add	208.45	
			For Elevated Installation >35' To 40', Add	260.57	
			For Elevated Installation >40', Add	286.62	
26 05 33 13-0157			Rigid Galvanized Steel (RGS) 48" Large Radius Elbow (26 05 33 13-0060)		
			See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0158	EA		1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	127.47	29.29
			For Work In Restricted Working Space, Add	17.58	
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
26 05 33 13-0159	EA		1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	151.30	33.92
			For Work In Restricted Working Space, Add	20.35	
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
26 05 33 13-0160	EA		1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	176.54	38.55
			For Work In Restricted Working Space, Add	23.13	
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
26 05 33 13-0161	EA		2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	213.32	42.40
			For Work In Restricted Working Space, Add	25.44	
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
26 05 33 13-0162	EA		2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	282.66	53.19
			For Work In Restricted Working Space, Add	31.92	
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
26 05 33 13-0163	EA		3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	366.50	72.47
			For Work In Restricted Working Space, Add	43.48	
			For Elevated Installation >10' To 15', Add	14.49	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.47	
			For Elevated Installation >40', Add	79.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0164	EA	3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	453.20	81.72
		For Work In Restricted Working Space, Add	49.03	
		For Elevated Installation >10' To 15', Add	16.34	
		For Elevated Installation >15' To 20', Add	32.69	
		For Elevated Installation >20' To 25', Add	40.86	
		For Elevated Installation >25' To 30', Add	57.20	
		For Elevated Installation >30' To 35', Add	65.37	
		For Elevated Installation >35' To 40', Add	81.72	
		For Elevated Installation >40', Add	89.89	
26 05 33 13-0165	EA	4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	568.23	106.39
		For Work In Restricted Working Space, Add	63.83	
		For Elevated Installation >10' To 15', Add	21.28	
		For Elevated Installation >15' To 20', Add	42.55	
		For Elevated Installation >20' To 25', Add	53.19	
		For Elevated Installation >25' To 30', Add	74.47	
		For Elevated Installation >30' To 35', Add	85.11	
		For Elevated Installation >35' To 40', Add	106.39	
		For Elevated Installation >40', Add	117.02	
26 05 33 13-0166	EA	5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	914.38	173.46
		For Work In Restricted Working Space, Add	104.07	
		For Elevated Installation >10' To 15', Add	34.69	
		For Elevated Installation >15' To 20', Add	69.38	
		For Elevated Installation >20' To 25', Add	86.73	
		For Elevated Installation >25' To 30', Add	121.42	
		For Elevated Installation >30' To 35', Add	138.76	
		For Elevated Installation >35' To 40', Add	173.46	
		For Elevated Installation >40', Add	190.80	
26 05 33 13-0167	EA	6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,102.39	260.57
		For Work In Restricted Working Space, Add	156.34	
		For Elevated Installation >10' To 15', Add	52.11	
		For Elevated Installation >15' To 20', Add	104.23	
		For Elevated Installation >20' To 25', Add	130.28	
		For Elevated Installation >25' To 30', Add	182.40	
		For Elevated Installation >30' To 35', Add	208.45	
		For Elevated Installation >35' To 40', Add	260.57	
		For Elevated Installation >40', Add	286.62	
26 05 33 13-0168 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0060)				
26 05 33 13-0169	EA	1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	15.53	7.56
		For Work In Restricted Working Space, Add	4.54	
		For Elevated Installation >10' To 15', Add	1.51	
		For Elevated Installation >15' To 20', Add	3.02	
		For Elevated Installation >20' To 25', Add	3.78	
		For Elevated Installation >25' To 30', Add	5.29	
		For Elevated Installation >30' To 35', Add	6.05	
		For Elevated Installation >35' To 40', Add	7.56	
		For Elevated Installation >40', Add	8.32	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.54	
26 05 33 13-0170	EA	3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	16.67	8.07
		For Work In Restricted Working Space, Add	4.84	
		For Elevated Installation >10' To 15', Add	1.61	
		For Elevated Installation >15' To 20', Add	3.23	
		For Elevated Installation >20' To 25', Add	4.03	
		For Elevated Installation >25' To 30', Add	5.65	
		For Elevated Installation >30' To 35', Add	6.45	
		For Elevated Installation >35' To 40', Add	8.07	
		For Elevated Installation >40', Add	8.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.84	
26 05 33 13-0171	EA	1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	18.95	9.07
		For Work In Restricted Working Space, Add	5.44	
		For Elevated Installation >10' To 15', Add	1.81	
		For Elevated Installation >15' To 20', Add	3.63	
		For Elevated Installation >20' To 25', Add	4.54	
		For Elevated Installation >25' To 30', Add	6.35	
		For Elevated Installation >30' To 35', Add	7.26	
		For Elevated Installation >35' To 40', Add	9.07	
		For Elevated Installation >40', Add	9.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.44	
26 05 33 13-0172	EA	1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	21.34	10.09
		For Work In Restricted Working Space, Add	6.05	
		For Elevated Installation >10' To 15', Add	2.02	
		For Elevated Installation >15' To 20', Add	4.03	
		For Elevated Installation >20' To 25', Add	5.04	
		For Elevated Installation >25' To 30', Add	7.06	
		For Elevated Installation >30' To 35', Add	8.06	
		For Elevated Installation >35' To 40', Add	10.08	
		For Elevated Installation >40', Add	11.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.05	



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0173	EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	26.81		12.60
	For Work In Restricted Working Space, Add	7.56		
	For Elevated Installation >10' To 15', Add	2.52		
	For Elevated Installation >15' To 20', Add	5.04		
	For Elevated Installation >20' To 25', Add	6.30		
	For Elevated Installation >25' To 30', Add	8.82		
	For Elevated Installation >30' To 35', Add	10.08		
	For Elevated Installation >35' To 40', Add	12.60		
	For Elevated Installation >40', Add	13.86		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.56		
26 05 33 13-0174	EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	33.24		15.12
	For Work In Restricted Working Space, Add	9.08		
	For Elevated Installation >10' To 15', Add	3.03		
	For Elevated Installation >15' To 20', Add	6.05		
	For Elevated Installation >20' To 25', Add	7.56		
	For Elevated Installation >25' To 30', Add	10.59		
	For Elevated Installation >30' To 35', Add	12.10		
	For Elevated Installation >35' To 40', Add	15.13		
	For Elevated Installation >40', Add	16.64		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.08		
26 05 33 13-0175	EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	41.89		17.64
	For Work In Restricted Working Space, Add	10.59		
	For Elevated Installation >10' To 15', Add	3.53		
	For Elevated Installation >15' To 20', Add	7.06		
	For Elevated Installation >20' To 25', Add	8.82		
	For Elevated Installation >25' To 30', Add	12.35		
	For Elevated Installation >30' To 35', Add	14.12		
	For Elevated Installation >35' To 40', Add	17.65		
	For Elevated Installation >40', Add	19.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.59		
26 05 33 13-0176	EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	47.28		20.16
	For Work In Restricted Working Space, Add	12.10		
	For Elevated Installation >10' To 15', Add	4.03		
	For Elevated Installation >15' To 20', Add	8.06		
	For Elevated Installation >20' To 25', Add	10.08		
	For Elevated Installation >25' To 30', Add	14.11		
	For Elevated Installation >30' To 35', Add	16.13		
	For Elevated Installation >35' To 40', Add	20.16		
	For Elevated Installation >40', Add	22.18		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10		
26 05 33 13-0177	EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	55.02		18.98
	For Work In Restricted Working Space, Add	13.61		
	For Elevated Installation >10' To 15', Add	4.54		
	For Elevated Installation >15' To 20', Add	9.07		
	For Elevated Installation >20' To 25', Add	11.34		
	For Elevated Installation >25' To 30', Add	15.88		
	For Elevated Installation >30' To 35', Add	18.14		
	For Elevated Installation >35' To 40', Add	22.68		
	For Elevated Installation >40', Add	24.95		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.61		
26 05 33 13-0178	EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	61.06		25.20
	For Work In Restricted Working Space, Add	15.12		
	For Elevated Installation >10' To 15', Add	5.04		
	For Elevated Installation >15' To 20', Add	10.08		
	For Elevated Installation >20' To 25', Add	12.60		
	For Elevated Installation >25' To 30', Add	17.64		
	For Elevated Installation >30' To 35', Add	20.16		
	For Elevated Installation >35' To 40', Add	25.21		
	For Elevated Installation >40', Add	27.73		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.12		
26 05 33 13-0179	EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	73.60		27.72
	For Work In Restricted Working Space, Add	16.64		
	For Elevated Installation >10' To 15', Add	5.55		
	For Elevated Installation >15' To 20', Add	11.09		
	For Elevated Installation >20' To 25', Add	13.86		
	For Elevated Installation >25' To 30', Add	19.41		
	For Elevated Installation >30' To 35', Add	22.18		
	For Elevated Installation >35' To 40', Add	27.73		
	For Elevated Installation >40', Add	30.50		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.64		
26 05 33 13-0180	EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	106.44		30.25
	For Work In Restricted Working Space, Add	18.15		
	For Elevated Installation >10' To 15', Add	6.05		
	For Elevated Installation >15' To 20', Add	12.10		
	For Elevated Installation >20' To 25', Add	15.12		
	For Elevated Installation >25' To 30', Add	21.17		
	For Elevated Installation >30' To 35', Add	24.20		
	For Elevated Installation >35' To 40', Add	30.25		
	For Elevated Installation >40', Add	33.27		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.15		

26 05 33 13-0181 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0060)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0182	EA		1/2" Rigid Galvanized Steel (RGS) Steel Bushing	18.80	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-0183	EA		3/4" Rigid Galvanized Steel (RGS) Steel Bushing	20.45	9.48
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.80	
			For Elevated Installation >20' To 25', Add	4.75	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0184	EA		1" Rigid Galvanized Steel (RGS) Steel Bushing	23.91	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0185	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	26.88	11.86
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0186	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	34.33	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-0187	EA		2" Rigid Galvanized Steel (RGS) Steel Bushing	40.61	17.79
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.67	
26 05 33 13-0188	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	57.31	20.75
			For Work In Restricted Working Space, Add	12.45	
			For Elevated Installation >10' To 15', Add	4.15	
			For Elevated Installation >15' To 20', Add	8.30	
			For Elevated Installation >20' To 25', Add	10.38	
			For Elevated Installation >25' To 30', Add	14.53	
			For Elevated Installation >30' To 35', Add	16.60	
			For Elevated Installation >35' To 40', Add	20.76	
			For Elevated Installation >40', Add	22.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0189	EA		3" Rigid Galvanized Steel (RGS) Steel Bushing	68.17	23.72
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0190	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing.....	101.78	26.68
			For Work In Restricted Working Space, Add	16.01	
			For Elevated Installation >10' To 15', Add	5.34	
			For Elevated Installation >15' To 20', Add	10.67	
			For Elevated Installation >20' To 25', Add	13.34	
			For Elevated Installation >25' To 30', Add	18.68	
			For Elevated Installation >30' To 35', Add	21.35	
			For Elevated Installation >35' To 40', Add	26.69	
			For Elevated Installation >40', Add	29.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.01	
26 05 33 13-0191	EA		4" Rigid Galvanized Steel (RGS) Steel Bushing.....	137.81	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0192	EA		5" Rigid Galvanized Steel (RGS) Steel Bushing.....	184.32	32.62
			For Work In Restricted Working Space, Add	19.57	
			For Elevated Installation >10' To 15', Add	6.52	
			For Elevated Installation >15' To 20', Add	13.05	
			For Elevated Installation >20' To 25', Add	16.31	
			For Elevated Installation >25' To 30', Add	22.83	
			For Elevated Installation >30' To 35', Add	26.09	
			For Elevated Installation >35' To 40', Add	32.62	
			For Elevated Installation >40', Add	35.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57	
26 05 33 13-0193	EA		6" Rigid Galvanized Steel (RGS) Steel Bushing.....	272.16	35.58
			For Work In Restricted Working Space, Add	21.35	
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.91	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.35	
26 05 33 13-0194			Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0060)		
26 05 33 13-0195	EA		1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	19.99	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-0196	EA		3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	22.25	9.48
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.80	
			For Elevated Installation >20' To 25', Add	4.75	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0197	EA		1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	26.17	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0198	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	30.70	11.86
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0199	EA	1-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing	38.30	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-0200	EA	2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	47.66	17.79
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.67	
26 05 33 13-0201	EA	2-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing	66.87	20.75
			For Work In Restricted Working Space, Add	12.45	
			For Elevated Installation >10' To 15', Add	4.15	
			For Elevated Installation >15' To 20', Add	8.30	
			For Elevated Installation >20' To 25', Add	10.38	
			For Elevated Installation >25' To 30', Add	14.53	
			For Elevated Installation >30' To 35', Add	16.60	
			For Elevated Installation >35' To 40', Add	20.76	
			For Elevated Installation >40', Add	22.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0202	EA	3"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	79.38	23.72
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0203	EA	3-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing	103.87	26.68
			For Work In Restricted Working Space, Add	16.01	
			For Elevated Installation >10' To 15', Add	5.34	
			For Elevated Installation >15' To 20', Add	10.67	
			For Elevated Installation >20' To 25', Add	13.34	
			For Elevated Installation >25' To 30', Add	18.68	
			For Elevated Installation >30' To 35', Add	21.35	
			For Elevated Installation >35' To 40', Add	26.69	
			For Elevated Installation >40', Add	29.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.01	
26 05 33 13-0204	EA	4"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	147.16	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0205	EA	5"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	194.50	32.62
			For Work In Restricted Working Space, Add	19.57	
			For Elevated Installation >10' To 15', Add	6.52	
			For Elevated Installation >15' To 20', Add	13.05	
			For Elevated Installation >20' To 25', Add	16.31	
			For Elevated Installation >25' To 30', Add	22.83	
			For Elevated Installation >30' To 35', Add	26.09	
			For Elevated Installation >35' To 40', Add	32.62	
			For Elevated Installation >40', Add	35.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57	
26 05 33 13-0206	EA	6"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	275.74	35.58
			For Work In Restricted Working Space, Add	21.35	
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.91	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.35	

26 05 33 13-0207 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0060)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0208	EA	1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	30.22	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33	13-0209	EA	3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	33.85	11.86
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33	13-0210	EA	1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	38.72	13.05
			For Work In Restricted Working Space, Add	7.83	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.22	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.13	
			For Elevated Installation >30' To 35', Add	10.44	
			For Elevated Installation >35' To 40', Add	13.05	
			For Elevated Installation >40', Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33	13-0211	EA	1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	45.99	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33	13-0212	EA	1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	55.63	18.39
			For Work In Restricted Working Space, Add	11.03	
			For Elevated Installation >10' To 15', Add	3.68	
			For Elevated Installation >15' To 20', Add	7.35	
			For Elevated Installation >20' To 25', Add	9.19	
			For Elevated Installation >25' To 30', Add	12.87	
			For Elevated Installation >30' To 35', Add	14.71	
			For Elevated Installation >35' To 40', Add	18.39	
			For Elevated Installation >40', Add	20.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.03	
26 05 33	13-0213	EA	2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	70.09	21.94
			For Work In Restricted Working Space, Add	13.17	
			For Elevated Installation >10' To 15', Add	4.39	
			For Elevated Installation >15' To 20', Add	8.78	
			For Elevated Installation >20' To 25', Add	10.97	
			For Elevated Installation >25' To 30', Add	15.36	
			For Elevated Installation >30' To 35', Add	17.56	
			For Elevated Installation >35' To 40', Add	21.95	
			For Elevated Installation >40', Add	24.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.17	
26 05 33	13-0214	EA	2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	93.80	25.50
			For Work In Restricted Working Space, Add	15.30	
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.20	
			For Elevated Installation >20' To 25', Add	12.75	
			For Elevated Installation >25' To 30', Add	17.85	
			For Elevated Installation >30' To 35', Add	20.40	
			For Elevated Installation >35' To 40', Add	25.50	
			For Elevated Installation >40', Add	28.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.30	
26 05 33	13-0215	EA	3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	103.46	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0216 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	116.99	33.21
For Work In Restricted Working Space, Add	19.93	
For Elevated Installation >10' To 15', Add	6.64	
For Elevated Installation >15' To 20', Add	13.28	
For Elevated Installation >20' To 25', Add	16.61	
For Elevated Installation >25' To 30', Add	23.25	
For Elevated Installation >30' To 35', Add	26.57	
For Elevated Installation >35' To 40', Add	33.21	
For Elevated Installation >40', Add	36.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.93	
26 05 33 13-0217 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	150.94	36.77
For Work In Restricted Working Space, Add	22.06	
For Elevated Installation >10' To 15', Add	7.35	
For Elevated Installation >15' To 20', Add	14.71	
For Elevated Installation >20' To 25', Add	18.38	
For Elevated Installation >25' To 30', Add	25.74	
For Elevated Installation >30' To 35', Add	29.41	
For Elevated Installation >35' To 40', Add	36.77	
For Elevated Installation >40', Add	40.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.06	
26 05 33 13-0218 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	213.90	40.32
For Work In Restricted Working Space, Add	24.20	
For Elevated Installation >10' To 15', Add	8.07	
For Elevated Installation >15' To 20', Add	16.13	
For Elevated Installation >20' To 25', Add	20.16	
For Elevated Installation >25' To 30', Add	28.23	
For Elevated Installation >30' To 35', Add	32.26	
For Elevated Installation >35' To 40', Add	40.33	
For Elevated Installation >40', Add	44.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.20	
26 05 33 13-0219 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	294.35	44.48
For Work In Restricted Working Space, Add	26.69	
For Elevated Installation >10' To 15', Add	8.90	
For Elevated Installation >15' To 20', Add	17.79	
For Elevated Installation >20' To 25', Add	22.24	
For Elevated Installation >25' To 30', Add	31.13	
For Elevated Installation >30' To 35', Add	35.58	
For Elevated Installation >35' To 40', Add	44.48	
For Elevated Installation >40', Add	48.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.69	
26 05 33 13-0220 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0060)		
26 05 33 13-0221 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	17.65	5.46
For Work In Restricted Working Space, Add	4.06	
For Elevated Installation >10' To 15', Add	1.35	
For Elevated Installation >15' To 20', Add	2.71	
For Elevated Installation >20' To 25', Add	3.39	
For Elevated Installation >25' To 30', Add	4.74	
For Elevated Installation >30' To 35', Add	5.42	
For Elevated Installation >35' To 40', Add	6.77	
For Elevated Installation >40', Add	7.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.06	
26 05 33 13-0222 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	21.37	6.28
For Work In Restricted Working Space, Add	4.70	
For Elevated Installation >10' To 15', Add	1.57	
For Elevated Installation >15' To 20', Add	3.13	
For Elevated Installation >20' To 25', Add	3.92	
For Elevated Installation >25' To 30', Add	5.48	
For Elevated Installation >30' To 35', Add	6.27	
For Elevated Installation >35' To 40', Add	7.84	
For Elevated Installation >40', Add	8.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.70	
26 05 33 13-0223 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw.....	27.99	7.59
For Work In Restricted Working Space, Add	5.67	
For Elevated Installation >10' To 15', Add	1.89	
For Elevated Installation >15' To 20', Add	3.78	
For Elevated Installation >20' To 25', Add	4.73	
For Elevated Installation >25' To 30', Add	6.62	
For Elevated Installation >30' To 35', Add	7.56	
For Elevated Installation >35' To 40', Add	9.45	
For Elevated Installation >40', Add	10.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.67	
26 05 33 13-0224 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	41.32	9.37
For Work In Restricted Working Space, Add	7.05	
For Elevated Installation >10' To 15', Add	2.35	
For Elevated Installation >15' To 20', Add	4.70	
For Elevated Installation >20' To 25', Add	5.87	
For Elevated Installation >25' To 30', Add	8.22	
For Elevated Installation >30' To 35', Add	9.40	
For Elevated Installation >35' To 40', Add	11.75	
For Elevated Installation >40', Add	12.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0225	EA	1-1/2"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.94 9.44 3.15 6.29 7.87 11.01 12.58 15.73 17.30 9.44	12.57
26 05 33 13-0226	EA	2"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.13 14.14 4.71 9.42 11.78 16.49 18.85 23.56 25.92 14.14	18.86
26 05 33 13-0227	EA	2-1/2"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.99 15.66 5.22 10.44 13.05 18.27 20.88 26.10 28.70 15.66	20.87
26 05 33 13-0228	EA	3"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	203.82 18.96 6.32 12.64 15.80 22.12 25.28 31.60 34.76 18.96	25.26
26 05 33 13-0229	EA	3-1/2"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	275.51 23.74 7.91 15.82 19.78 27.69 31.65 39.56 43.52 23.74	31.66
26 05 33 13-0230	EA	4"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	322.79 28.46 9.49 18.98 23.72 33.21 37.95 47.44 52.18 28.46	37.96
26 05 33 13-0231	EA	5"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	566.10 31.63 10.54 21.09 26.36 36.90 42.18 52.72 57.99 31.63	42.22
26 05 33 13-0232	EA	6"	Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	676.21 35.57 11.86 23.71 29.64 41.50 47.43 59.29 65.21 35.57	47.44

26 05 33 13-0233 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0060)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0234 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	17.23	7.71
For Work In Restricted Working Space, Add	4.62	
For Elevated Installation >10' To 15', Add	1.54	
For Elevated Installation >15' To 20', Add	3.08	
For Elevated Installation >20' To 25', Add	3.85	
For Elevated Installation >25' To 30', Add	5.39	
For Elevated Installation >30' To 35', Add	6.16	
For Elevated Installation >35' To 40', Add	7.71	
For Elevated Installation >40', Add	8.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-0235 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	19.84	8.89
For Work In Restricted Working Space, Add	5.34	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.45	
For Elevated Installation >25' To 30', Add	6.23	
For Elevated Installation >30' To 35', Add	7.12	
For Elevated Installation >35' To 40', Add	8.90	
For Elevated Installation >40', Add	9.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-0236 EA 1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	25.40	11.27
For Work In Restricted Working Space, Add	6.76	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.51	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.89	
For Elevated Installation >30' To 35', Add	9.01	
For Elevated Installation >35' To 40', Add	11.27	
For Elevated Installation >40', Add	12.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-0237 EA 1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	29.74	13.05
For Work In Restricted Working Space, Add	7.83	
For Elevated Installation >10' To 15', Add	2.61	
For Elevated Installation >15' To 20', Add	5.22	
For Elevated Installation >20' To 25', Add	6.52	
For Elevated Installation >25' To 30', Add	9.13	
For Elevated Installation >30' To 35', Add	10.44	
For Elevated Installation >35' To 40', Add	13.05	
For Elevated Installation >40', Add	14.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-0238 EA 1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	33.97	14.82
For Work In Restricted Working Space, Add	8.90	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.93	
For Elevated Installation >20' To 25', Add	7.41	
For Elevated Installation >25' To 30', Add	10.38	
For Elevated Installation >30' To 35', Add	11.86	
For Elevated Installation >35' To 40', Add	14.83	
For Elevated Installation >40', Add	16.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-0239 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	17.38	7.71
For Work In Restricted Working Space, Add	4.62	
For Elevated Installation >10' To 15', Add	1.54	
For Elevated Installation >15' To 20', Add	3.08	
For Elevated Installation >20' To 25', Add	3.85	
For Elevated Installation >25' To 30', Add	5.39	
For Elevated Installation >30' To 35', Add	6.16	
For Elevated Installation >35' To 40', Add	7.71	
For Elevated Installation >40', Add	8.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-0240 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	20.07	8.89
For Work In Restricted Working Space, Add	5.34	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.45	
For Elevated Installation >25' To 30', Add	6.23	
For Elevated Installation >30' To 35', Add	7.12	
For Elevated Installation >35' To 40', Add	8.90	
For Elevated Installation >40', Add	9.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-0241 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	25.65	11.27
For Work In Restricted Working Space, Add	6.76	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.51	
For Elevated Installation >20' To 25', Add	5.63	
For Elevated Installation >25' To 30', Add	7.89	
For Elevated Installation >30' To 35', Add	9.01	
For Elevated Installation >35' To 40', Add	11.27	
For Elevated Installation >40', Add	12.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0242	EA	1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.08	13.05	
		For Work In Restricted Working Space, Add	7.83		
		For Elevated Installation >10' To 15', Add	2.61		
		For Elevated Installation >15' To 20', Add	5.22		
		For Elevated Installation >20' To 25', Add	6.52		
		For Elevated Installation >25' To 30', Add	9.13		
		For Elevated Installation >30' To 35', Add	10.44		
		For Elevated Installation >35' To 40', Add	13.05		
		For Elevated Installation >40', Add	14.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83		
26 05 33 13-0243	EA	1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	34.52	14.82	
		For Work In Restricted Working Space, Add	8.90		
		For Elevated Installation >10' To 15', Add	2.97		
		For Elevated Installation >15' To 20', Add	5.93		
		For Elevated Installation >20' To 25', Add	7.41		
		For Elevated Installation >25' To 30', Add	10.38		
		For Elevated Installation >30' To 35', Add	11.86		
		For Elevated Installation >35' To 40', Add	14.83		
		For Elevated Installation >40', Add	16.31		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90		
26 05 33 13-0244	EA	2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	39.10	16.61	
		For Work In Restricted Working Space, Add	9.96		
		For Elevated Installation >10' To 15', Add	3.32		
		For Elevated Installation >15' To 20', Add	6.64		
		For Elevated Installation >20' To 25', Add	8.30		
		For Elevated Installation >25' To 30', Add	11.62		
		For Elevated Installation >30' To 35', Add	13.28		
		For Elevated Installation >35' To 40', Add	16.61		
		For Elevated Installation >40', Add	18.27		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96		
26 05 33 13-0245	EA	1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	17.54	7.71	
		For Work In Restricted Working Space, Add	4.62		
		For Elevated Installation >10' To 15', Add	1.54		
		For Elevated Installation >15' To 20', Add	3.08		
		For Elevated Installation >20' To 25', Add	3.85		
		For Elevated Installation >25' To 30', Add	5.39		
		For Elevated Installation >30' To 35', Add	6.16		
		For Elevated Installation >35' To 40', Add	7.71		
		For Elevated Installation >40', Add	8.48		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62		
26 05 33 13-0246	EA	3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.28	8.89	
		For Work In Restricted Working Space, Add	5.34		
		For Elevated Installation >10' To 15', Add	1.78		
		For Elevated Installation >15' To 20', Add	3.56		
		For Elevated Installation >20' To 25', Add	4.45		
		For Elevated Installation >25' To 30', Add	6.23		
		For Elevated Installation >30' To 35', Add	7.12		
		For Elevated Installation >35' To 40', Add	8.90		
		For Elevated Installation >40', Add	9.78		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34		
26 05 33 13-0247	EA	1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	26.00	11.27	
		For Work In Restricted Working Space, Add	6.76		
		For Elevated Installation >10' To 15', Add	2.25		
		For Elevated Installation >15' To 20', Add	4.51		
		For Elevated Installation >20' To 25', Add	5.63		
		For Elevated Installation >25' To 30', Add	7.89		
		For Elevated Installation >30' To 35', Add	9.01		
		For Elevated Installation >35' To 40', Add	11.27		
		For Elevated Installation >40', Add	12.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76		
26 05 33 13-0248	EA	1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.39	13.05	
		For Work In Restricted Working Space, Add	7.83		
		For Elevated Installation >10' To 15', Add	2.61		
		For Elevated Installation >15' To 20', Add	5.22		
		For Elevated Installation >20' To 25', Add	6.52		
		For Elevated Installation >25' To 30', Add	9.13		
		For Elevated Installation >30' To 35', Add	10.44		
		For Elevated Installation >35' To 40', Add	13.05		
		For Elevated Installation >40', Add	14.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83		
26 05 33 13-0249	EA	1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	34.90	14.82	
		For Work In Restricted Working Space, Add	8.90		
		For Elevated Installation >10' To 15', Add	2.97		
		For Elevated Installation >15' To 20', Add	5.93		
		For Elevated Installation >20' To 25', Add	7.41		
		For Elevated Installation >25' To 30', Add	10.38		
		For Elevated Installation >30' To 35', Add	11.86		
		For Elevated Installation >35' To 40', Add	14.83		
		For Elevated Installation >40', Add	16.31		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0250	EA 2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.02 9.96 3.32 6.64 8.30 11.62 13.28 16.61 18.27 9.96	16.61
26 05 33 13-0251	EA 2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.38 12.10 4.03 8.06 10.08 14.11 16.13 20.16 22.18 12.10	20.16
26 05 33 13-0252	EA 3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.03 16.72 5.57 11.15 13.94 19.51 22.30 27.87 30.66 16.72	27.87
26 05 33 13-0253	EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.74 4.62 1.54 3.08 3.85 5.39 6.16 7.71 8.48 4.62	7.71
26 05 33 13-0254	EA 3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.39 5.34 1.78 3.56 4.45 6.23 7.12 8.90 9.78 5.34	8.89
26 05 33 13-0255	EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.47 6.76 2.25 4.51 5.63 7.89 9.01 11.27 12.39 6.76	11.27
26 05 33 13-0256	EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.98 7.83 2.61 5.22 6.52 9.13 10.44 13.05 14.35 7.83	13.05
26 05 33 13-0257	EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.68 8.90 2.97 5.93 7.41 10.38 11.86 14.83 16.31 8.90	14.82



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0258	EA	2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple	.....	40.97	16.61
		For Work In Restricted Working Space, Add	.....	9.96	
		For Elevated Installation >10' To 15', Add	.....	3.32	
		For Elevated Installation >15' To 20', Add	.....	6.64	
		For Elevated Installation >20' To 25', Add	.....	8.30	
		For Elevated Installation >25' To 30', Add	.....	11.62	
		For Elevated Installation >30' To 35', Add	.....	13.28	
		For Elevated Installation >35' To 40', Add	.....	16.61	
		For Elevated Installation >40', Add	.....	18.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	9.96	
26 05 33 13-0259	EA	2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	56.95	20.16
		For Work In Restricted Working Space, Add	.....	12.10	
		For Elevated Installation >10' To 15', Add	.....	4.03	
		For Elevated Installation >15' To 20', Add	.....	8.06	
		For Elevated Installation >20' To 25', Add	.....	10.08	
		For Elevated Installation >25' To 30', Add	.....	14.11	
		For Elevated Installation >30' To 35', Add	.....	16.13	
		For Elevated Installation >35' To 40', Add	.....	20.16	
		For Elevated Installation >40', Add	.....	22.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	12.10	
26 05 33 13-0260	EA	3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	75.25	27.87
		For Work In Restricted Working Space, Add	.....	16.72	
		For Elevated Installation >10' To 15', Add	.....	5.57	
		For Elevated Installation >15' To 20', Add	.....	11.15	
		For Elevated Installation >20' To 25', Add	.....	13.94	
		For Elevated Installation >25' To 30', Add	.....	19.51	
		For Elevated Installation >30' To 35', Add	.....	22.30	
		For Elevated Installation >35' To 40', Add	.....	27.87	
		For Elevated Installation >40', Add	.....	30.66	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	16.72	
26 05 33 13-0261	EA	1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	17.94	7.71
		For Work In Restricted Working Space, Add	.....	4.62	
		For Elevated Installation >10' To 15', Add	.....	1.54	
		For Elevated Installation >15' To 20', Add	.....	3.08	
		For Elevated Installation >20' To 25', Add	.....	3.85	
		For Elevated Installation >25' To 30', Add	.....	5.39	
		For Elevated Installation >30' To 35', Add	.....	6.16	
		For Elevated Installation >35' To 40', Add	.....	7.71	
		For Elevated Installation >40', Add	.....	8.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	4.62	
26 05 33 13-0262	EA	3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	20.74	8.89
		For Work In Restricted Working Space, Add	.....	5.34	
		For Elevated Installation >10' To 15', Add	.....	1.78	
		For Elevated Installation >15' To 20', Add	.....	3.56	
		For Elevated Installation >20' To 25', Add	.....	4.45	
		For Elevated Installation >25' To 30', Add	.....	6.23	
		For Elevated Installation >30' To 35', Add	.....	7.12	
		For Elevated Installation >35' To 40', Add	.....	8.90	
		For Elevated Installation >40', Add	.....	9.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.34	
26 05 33 13-0263	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	26.75	11.27
		For Work In Restricted Working Space, Add	.....	6.76	
		For Elevated Installation >10' To 15', Add	.....	2.25	
		For Elevated Installation >15' To 20', Add	.....	4.51	
		For Elevated Installation >20' To 25', Add	.....	5.63	
		For Elevated Installation >25' To 30', Add	.....	7.89	
		For Elevated Installation >30' To 35', Add	.....	9.01	
		For Elevated Installation >35' To 40', Add	.....	11.27	
		For Elevated Installation >40', Add	.....	12.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	6.76	
26 05 33 13-0264	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	31.27	13.05
		For Work In Restricted Working Space, Add	.....	7.83	
		For Elevated Installation >10' To 15', Add	.....	2.61	
		For Elevated Installation >15' To 20', Add	.....	5.22	
		For Elevated Installation >20' To 25', Add	.....	6.52	
		For Elevated Installation >25' To 30', Add	.....	9.13	
		For Elevated Installation >30' To 35', Add	.....	10.44	
		For Elevated Installation >35' To 40', Add	.....	13.05	
		For Elevated Installation >40', Add	.....	14.35	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.83	
26 05 33 13-0265	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	.....	36.21	14.82
		For Work In Restricted Working Space, Add	.....	8.90	
		For Elevated Installation >10' To 15', Add	.....	2.97	
		For Elevated Installation >15' To 20', Add	.....	5.93	
		For Elevated Installation >20' To 25', Add	.....	7.41	
		For Elevated Installation >25' To 30', Add	.....	10.38	
		For Elevated Installation >30' To 35', Add	.....	11.86	
		For Elevated Installation >35' To 40', Add	.....	14.83	
		For Elevated Installation >40', Add	.....	16.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.90	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0266	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	41.77	16.61
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33	13-0267	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	57.73	20.16
			For Work In Restricted Working Space, Add	12.10	
			For Elevated Installation >10' To 15', Add	4.03	
			For Elevated Installation >15' To 20', Add	8.06	
			For Elevated Installation >20' To 25', Add	10.08	
			For Elevated Installation >25' To 30', Add	14.11	
			For Elevated Installation >30' To 35', Add	16.13	
			For Elevated Installation >35' To 40', Add	20.16	
			For Elevated Installation >40', Add	22.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10	
26 05 33	13-0268	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	76.89	27.87
			For Work In Restricted Working Space, Add	16.72	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.15	
			For Elevated Installation >20' To 25', Add	13.94	
			For Elevated Installation >25' To 30', Add	19.51	
			For Elevated Installation >30' To 35', Add	22.30	
			For Elevated Installation >35' To 40', Add	27.87	
			For Elevated Installation >40', Add	30.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72	
26 05 33	13-0269	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	88.59	31.43
			For Work In Restricted Working Space, Add	18.86	
			For Elevated Installation >10' To 15', Add	6.29	
			For Elevated Installation >15' To 20', Add	12.57	
			For Elevated Installation >20' To 25', Add	15.71	
			For Elevated Installation >25' To 30', Add	22.00	
			For Elevated Installation >30' To 35', Add	25.14	
			For Elevated Installation >35' To 40', Add	31.43	
			For Elevated Installation >40', Add	34.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33	13-0270	EA	4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	110.73	40.92
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33	13-0271	EA	1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	18.24	7.71
			For Work In Restricted Working Space, Add	4.62	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33	13-0272	EA	3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	21.18	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33	13-0273	EA	1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	27.32	11.27
			For Work In Restricted Working Space, Add	6.76	
			For Elevated Installation >10' To 15', Add	2.25	
			For Elevated Installation >15' To 20', Add	4.51	
			For Elevated Installation >20' To 25', Add	5.63	
			For Elevated Installation >25' To 30', Add	7.89	
			For Elevated Installation >30' To 35', Add	9.01	
			For Elevated Installation >35' To 40', Add	11.27	
			For Elevated Installation >40', Add	12.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0274	EA	1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	32.09	13.05
			For Work In Restricted Working Space, Add	7.83	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.22	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.13	
			For Elevated Installation >30' To 35', Add	10.44	
			For Elevated Installation >35' To 40', Add	13.05	
			For Elevated Installation >40', Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33	13-0275	EA	1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.01	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33	13-0276	EA	2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	43.20	16.61
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33	13-0277	EA	2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	60.90	20.16
			For Work In Restricted Working Space, Add	12.10	
			For Elevated Installation >10' To 15', Add	4.03	
			For Elevated Installation >15' To 20', Add	8.06	
			For Elevated Installation >20' To 25', Add	10.08	
			For Elevated Installation >25' To 30', Add	14.11	
			For Elevated Installation >30' To 35', Add	16.13	
			For Elevated Installation >35' To 40', Add	20.16	
			For Elevated Installation >40', Add	22.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10	
26 05 33	13-0278	EA	3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	80.33	27.87
			For Work In Restricted Working Space, Add	16.72	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.15	
			For Elevated Installation >20' To 25', Add	13.94	
			For Elevated Installation >25' To 30', Add	19.51	
			For Elevated Installation >30' To 35', Add	22.30	
			For Elevated Installation >35' To 40', Add	27.87	
			For Elevated Installation >40', Add	30.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72	
26 05 33	13-0279	EA	3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	92.01	31.43
			For Work In Restricted Working Space, Add	18.86	
			For Elevated Installation >10' To 15', Add	6.29	
			For Elevated Installation >15' To 20', Add	12.57	
			For Elevated Installation >20' To 25', Add	15.71	
			For Elevated Installation >25' To 30', Add	22.00	
			For Elevated Installation >30' To 35', Add	25.14	
			For Elevated Installation >35' To 40', Add	31.43	
			For Elevated Installation >40', Add	34.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33	13-0280	EA	4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	115.72	40.92
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33	13-0281	EA	5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	178.44	56.34
			For Work In Restricted Working Space, Add	33.80	
			For Elevated Installation >10' To 15', Add	11.27	
			For Elevated Installation >15' To 20', Add	22.53	
			For Elevated Installation >20' To 25', Add	28.17	
			For Elevated Installation >25' To 30', Add	39.43	
			For Elevated Installation >30' To 35', Add	45.06	
			For Elevated Installation >35' To 40', Add	56.33	
			For Elevated Installation >40', Add	61.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0282	EA		6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	226.53	72.23
			For Work In Restricted Working Space, Add	43.37	
			For Elevated Installation >10' To 15', Add	14.46	
			For Elevated Installation >15' To 20', Add	28.91	
			For Elevated Installation >20' To 25', Add	36.14	
			For Elevated Installation >25' To 30', Add	50.59	
			For Elevated Installation >30' To 35', Add	57.82	
			For Elevated Installation >35' To 40', Add	72.28	
			For Elevated Installation >40', Add	79.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.37	
26 05 33 13-0283	EA		1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	18.79	7.71
			For Work In Restricted Working Space, Add	4.62	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-0284	EA		3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	21.74	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-0285	EA		1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	27.77	11.27
			For Work In Restricted Working Space, Add	6.76	
			For Elevated Installation >10' To 15', Add	2.25	
			For Elevated Installation >15' To 20', Add	4.51	
			For Elevated Installation >20' To 25', Add	5.63	
			For Elevated Installation >25' To 30', Add	7.89	
			For Elevated Installation >30' To 35', Add	9.01	
			For Elevated Installation >35' To 40', Add	11.27	
			For Elevated Installation >40', Add	12.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-0286	EA		1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	32.84	13.05
			For Work In Restricted Working Space, Add	7.83	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.22	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.13	
			For Elevated Installation >30' To 35', Add	10.44	
			For Elevated Installation >35' To 40', Add	13.05	
			For Elevated Installation >40', Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-0287	EA		1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	38.70	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-0288	EA		2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	44.64	16.61
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-0289	EA		2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	63.68	20.16
			For Work In Restricted Working Space, Add	12.10	
			For Elevated Installation >10' To 15', Add	4.03	
			For Elevated Installation >15' To 20', Add	8.06	
			For Elevated Installation >20' To 25', Add	10.08	
			For Elevated Installation >25' To 30', Add	14.11	
			For Elevated Installation >30' To 35', Add	16.13	
			For Elevated Installation >35' To 40', Add	20.16	
			For Elevated Installation >40', Add	22.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0290	EA	3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	83.81	27.87
			For Work In Restricted Working Space, Add	16.72	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.15	
			For Elevated Installation >20' To 25', Add	13.94	
			For Elevated Installation >25' To 30', Add	19.51	
			For Elevated Installation >30' To 35', Add	22.30	
			For Elevated Installation >35' To 40', Add	27.87	
			For Elevated Installation >40', Add	30.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72	
26 05 33	13-0291	EA	3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	96.17	31.43
			For Work In Restricted Working Space, Add	18.86	
			For Elevated Installation >10' To 15', Add	6.29	
			For Elevated Installation >15' To 20', Add	12.57	
			For Elevated Installation >20' To 25', Add	15.71	
			For Elevated Installation >25' To 30', Add	22.00	
			For Elevated Installation >30' To 35', Add	25.14	
			For Elevated Installation >35' To 40', Add	31.43	
			For Elevated Installation >40', Add	34.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33	13-0292	EA	4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	119.68	40.92
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33	13-0293	EA	5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	184.23	56.34
			For Work In Restricted Working Space, Add	33.80	
			For Elevated Installation >10' To 15', Add	11.27	
			For Elevated Installation >15' To 20', Add	22.53	
			For Elevated Installation >20' To 25', Add	28.17	
			For Elevated Installation >25' To 30', Add	39.43	
			For Elevated Installation >30' To 35', Add	45.06	
			For Elevated Installation >35' To 40', Add	56.33	
			For Elevated Installation >40', Add	61.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	
26 05 33	13-0294	EA	6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	235.01	72.23
			For Work In Restricted Working Space, Add	43.37	
			For Elevated Installation >10' To 15', Add	14.46	
			For Elevated Installation >15' To 20', Add	28.91	
			For Elevated Installation >20' To 25', Add	36.14	
			For Elevated Installation >25' To 30', Add	50.59	
			For Elevated Installation >30' To 35', Add	57.82	
			For Elevated Installation >35' To 40', Add	72.28	
			For Elevated Installation >40', Add	79.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.37	
26 05 33	13-0295	EA	1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	20.80	7.71
			For Work In Restricted Working Space, Add	4.62	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33	13-0296	EA	3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	24.31	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33	13-0297	EA	1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	30.79	11.27
			For Work In Restricted Working Space, Add	6.76	
			For Elevated Installation >10' To 15', Add	2.25	
			For Elevated Installation >15' To 20', Add	4.51	
			For Elevated Installation >20' To 25', Add	5.63	
			For Elevated Installation >25' To 30', Add	7.89	
			For Elevated Installation >30' To 35', Add	9.01	
			For Elevated Installation >35' To 40', Add	11.27	
			For Elevated Installation >40', Add	12.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0298	EA	1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	37.15	13.05
			For Work In Restricted Working Space, Add	7.83	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.22	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.13	
			For Elevated Installation >30' To 35', Add	10.44	
			For Elevated Installation >35' To 40', Add	13.05	
			For Elevated Installation >40', Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33	13-0299	EA	1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	43.50	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33	13-0300	EA	2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	49.69	16.61
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33	13-0301	EA	2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	71.04	20.16
			For Work In Restricted Working Space, Add	12.10	
			For Elevated Installation >10' To 15', Add	4.03	
			For Elevated Installation >15' To 20', Add	8.06	
			For Elevated Installation >20' To 25', Add	10.08	
			For Elevated Installation >25' To 30', Add	14.11	
			For Elevated Installation >30' To 35', Add	16.13	
			For Elevated Installation >35' To 40', Add	20.16	
			For Elevated Installation >40', Add	22.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10	
26 05 33	13-0302	EA	3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	92.27	27.87
			For Work In Restricted Working Space, Add	16.72	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.15	
			For Elevated Installation >20' To 25', Add	13.94	
			For Elevated Installation >25' To 30', Add	19.51	
			For Elevated Installation >30' To 35', Add	22.30	
			For Elevated Installation >35' To 40', Add	27.87	
			For Elevated Installation >40', Add	30.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72	
26 05 33	13-0303	EA	3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	104.60	31.43
			For Work In Restricted Working Space, Add	18.86	
			For Elevated Installation >10' To 15', Add	6.29	
			For Elevated Installation >15' To 20', Add	12.57	
			For Elevated Installation >20' To 25', Add	15.71	
			For Elevated Installation >25' To 30', Add	22.00	
			For Elevated Installation >30' To 35', Add	25.14	
			For Elevated Installation >35' To 40', Add	31.43	
			For Elevated Installation >40', Add	34.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33	13-0304	EA	4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	128.99	40.92
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33	13-0305	EA	5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	197.67	56.34
			For Work In Restricted Working Space, Add	33.80	
			For Elevated Installation >10' To 15', Add	11.27	
			For Elevated Installation >15' To 20', Add	22.53	
			For Elevated Installation >20' To 25', Add	28.17	
			For Elevated Installation >25' To 30', Add	39.43	
			For Elevated Installation >30' To 35', Add	45.06	
			For Elevated Installation >35' To 40', Add	56.33	
			For Elevated Installation >40', Add	61.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0306	EA	6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	250.10	72.23
			For Work In Restricted Working Space, Add	43.37	
			For Elevated Installation >10' To 15', Add	14.46	
			For Elevated Installation >15' To 20', Add	28.91	
			For Elevated Installation >20' To 25', Add	36.14	
			For Elevated Installation >25' To 30', Add	50.59	
			For Elevated Installation >30' To 35', Add	57.82	
			For Elevated Installation >35' To 40', Add	72.28	
			For Elevated Installation >40', Add	79.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.37	
26 05 33	13-0307	EA	1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	22.15	7.71
			For Work In Restricted Working Space, Add	4.62	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33	13-0308	EA	3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	25.62	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33	13-0309	EA	1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	33.19	11.27
			For Work In Restricted Working Space, Add	6.76	
			For Elevated Installation >10' To 15', Add	2.25	
			For Elevated Installation >15' To 20', Add	4.51	
			For Elevated Installation >20' To 25', Add	5.63	
			For Elevated Installation >25' To 30', Add	7.89	
			For Elevated Installation >30' To 35', Add	9.01	
			For Elevated Installation >35' To 40', Add	11.27	
			For Elevated Installation >40', Add	12.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33	13-0310	EA	1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	40.00	13.05
			For Work In Restricted Working Space, Add	7.83	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.22	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.13	
			For Elevated Installation >30' To 35', Add	10.44	
			For Elevated Installation >35' To 40', Add	13.05	
			For Elevated Installation >40', Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33	13-0311	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	46.31	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33	13-0312	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	52.95	16.61
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33	13-0313	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	75.99	20.16
			For Work In Restricted Working Space, Add	12.10	
			For Elevated Installation >10' To 15', Add	4.03	
			For Elevated Installation >15' To 20', Add	8.06	
			For Elevated Installation >20' To 25', Add	10.08	
			For Elevated Installation >25' To 30', Add	14.11	
			For Elevated Installation >30' To 35', Add	16.13	
			For Elevated Installation >35' To 40', Add	20.16	
			For Elevated Installation >40', Add	22.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0314	EA		3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	98.92	27.87
			For Work In Restricted Working Space, Add	16.72	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.15	
			For Elevated Installation >20' To 25', Add	13.94	
			For Elevated Installation >25' To 30', Add	19.51	
			For Elevated Installation >30' To 35', Add	22.30	
			For Elevated Installation >35' To 40', Add	27.87	
			For Elevated Installation >40', Add	30.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72	
26 05 33 13-0315	EA		3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	113.36	31.43
			For Work In Restricted Working Space, Add	18.86	
			For Elevated Installation >10' To 15', Add	6.29	
			For Elevated Installation >15' To 20', Add	12.57	
			For Elevated Installation >20' To 25', Add	15.71	
			For Elevated Installation >25' To 30', Add	22.00	
			For Elevated Installation >30' To 35', Add	25.14	
			For Elevated Installation >35' To 40', Add	31.43	
			For Elevated Installation >40', Add	34.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33 13-0316	EA		4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	140.08	40.92
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33 13-0317	EA		5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	212.33	56.34
			For Work In Restricted Working Space, Add	33.80	
			For Elevated Installation >10' To 15', Add	11.27	
			For Elevated Installation >15' To 20', Add	22.53	
			For Elevated Installation >20' To 25', Add	28.17	
			For Elevated Installation >25' To 30', Add	39.43	
			For Elevated Installation >30' To 35', Add	45.06	
			For Elevated Installation >35' To 40', Add	56.33	
			For Elevated Installation >40', Add	61.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	
26 05 33 13-0318	EA		6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	276.47	72.23
			For Work In Restricted Working Space, Add	43.37	
			For Elevated Installation >10' To 15', Add	14.46	
			For Elevated Installation >15' To 20', Add	28.91	
			For Elevated Installation >20' To 25', Add	36.14	
			For Elevated Installation >25' To 30', Add	50.59	
			For Elevated Installation >30' To 35', Add	57.82	
			For Elevated Installation >35' To 40', Add	72.28	
			For Elevated Installation >40', Add	79.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.37	
26 05 33 13-0319	EA		1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	23.18	7.71
			For Work In Restricted Working Space, Add	4.62	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-0320	EA		3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	26.59	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-0321	EA		1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	34.63	11.27
			For Work In Restricted Working Space, Add	6.76	
			For Elevated Installation >10' To 15', Add	2.25	
			For Elevated Installation >15' To 20', Add	4.51	
			For Elevated Installation >20' To 25', Add	5.63	
			For Elevated Installation >25' To 30', Add	7.89	
			For Elevated Installation >30' To 35', Add	9.01	
			For Elevated Installation >35' To 40', Add	11.27	
			For Elevated Installation >40', Add	12.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0322	EA	1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.29	13.05
			For Work In Restricted Working Space, Add	7.83	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.22	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.13	
			For Elevated Installation >30' To 35', Add	10.44	
			For Elevated Installation >35' To 40', Add	13.05	
			For Elevated Installation >40', Add	14.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33	13-0323	EA	1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	47.72	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33	13-0324	EA	2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	55.69	16.61
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33	13-0325	EA	2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	81.81	20.16
			For Work In Restricted Working Space, Add	12.10	
			For Elevated Installation >10' To 15', Add	4.03	
			For Elevated Installation >15' To 20', Add	8.06	
			For Elevated Installation >20' To 25', Add	10.08	
			For Elevated Installation >25' To 30', Add	14.11	
			For Elevated Installation >30' To 35', Add	16.13	
			For Elevated Installation >35' To 40', Add	20.16	
			For Elevated Installation >40', Add	22.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10	
26 05 33	13-0326	EA	3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	108.16	27.87
			For Work In Restricted Working Space, Add	16.72	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.15	
			For Elevated Installation >20' To 25', Add	13.94	
			For Elevated Installation >25' To 30', Add	19.51	
			For Elevated Installation >30' To 35', Add	22.30	
			For Elevated Installation >35' To 40', Add	27.87	
			For Elevated Installation >40', Add	30.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72	
26 05 33	13-0327	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	121.88	31.43
			For Work In Restricted Working Space, Add	18.86	
			For Elevated Installation >10' To 15', Add	6.29	
			For Elevated Installation >15' To 20', Add	12.57	
			For Elevated Installation >20' To 25', Add	15.71	
			For Elevated Installation >25' To 30', Add	22.00	
			For Elevated Installation >30' To 35', Add	25.14	
			For Elevated Installation >35' To 40', Add	31.43	
			For Elevated Installation >40', Add	34.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33	13-0328	EA	4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	151.18	40.92
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33	13-0329	EA	5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	233.39	56.34
			For Work In Restricted Working Space, Add	33.80	
			For Elevated Installation >10' To 15', Add	11.27	
			For Elevated Installation >15' To 20', Add	22.53	
			For Elevated Installation >20' To 25', Add	28.17	
			For Elevated Installation >25' To 30', Add	39.43	
			For Elevated Installation >30' To 35', Add	45.06	
			For Elevated Installation >35' To 40', Add	56.33	
			For Elevated Installation >40', Add	61.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0330	EA		6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	291.12	72.23
			For Work In Restricted Working Space, Add	43.37	
			For Elevated Installation >10' To 15', Add	14.46	
			For Elevated Installation >15' To 20', Add	28.91	
			For Elevated Installation >20' To 25', Add	36.14	
			For Elevated Installation >25' To 30', Add	50.59	
			For Elevated Installation >30' To 35', Add	57.82	
			For Elevated Installation >35' To 40', Add	72.28	
			For Elevated Installation >40', Add	79.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.37	
26 05 33 13-0331 Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0060)					
26 05 33 13-0332	EA		1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple	17.73	6.17
			For Work In Restricted Working Space, Add	4.66	
			For Elevated Installation >10' To 15', Add	1.55	
			For Elevated Installation >15' To 20', Add	3.11	
			For Elevated Installation >20' To 25', Add	3.89	
			For Elevated Installation >25' To 30', Add	5.44	
			For Elevated Installation >30' To 35', Add	6.22	
			For Elevated Installation >35' To 40', Add	7.77	
			For Elevated Installation >40', Add	8.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.66	
26 05 33 13-0333	EA		3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple	21.04	7.12
			For Work In Restricted Working Space, Add	5.31	
			For Elevated Installation >10' To 15', Add	1.77	
			For Elevated Installation >15' To 20', Add	3.54	
			For Elevated Installation >20' To 25', Add	4.42	
			For Elevated Installation >25' To 30', Add	6.19	
			For Elevated Installation >30' To 35', Add	7.08	
			For Elevated Installation >35' To 40', Add	8.85	
			For Elevated Installation >40', Add	9.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.31	
26 05 33 13-0334	EA		1" Rigid Galvanized Steel (RGS) Off-Set Nipple	26.46	9.01
			For Work In Restricted Working Space, Add	6.79	
			For Elevated Installation >10' To 15', Add	2.26	
			For Elevated Installation >15' To 20', Add	4.53	
			For Elevated Installation >20' To 25', Add	5.66	
			For Elevated Installation >25' To 30', Add	7.92	
			For Elevated Installation >30' To 35', Add	9.05	
			For Elevated Installation >35' To 40', Add	11.32	
			For Elevated Installation >40', Add	12.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.79	
26 05 33 13-0335	EA		1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	33.30	10.79
			For Work In Restricted Working Space, Add	8.14	
			For Elevated Installation >10' To 15', Add	2.71	
			For Elevated Installation >15' To 20', Add	5.42	
			For Elevated Installation >20' To 25', Add	6.78	
			For Elevated Installation >25' To 30', Add	9.49	
			For Elevated Installation >30' To 35', Add	10.85	
			For Elevated Installation >35' To 40', Add	13.56	
			For Elevated Installation >40', Add	14.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.14	
26 05 33 13-0336	EA		1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	36.46	11.86
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.94	
			For Elevated Installation >20' To 25', Add	7.42	
			For Elevated Installation >25' To 30', Add	10.39	
			For Elevated Installation >30' To 35', Add	11.87	
			For Elevated Installation >35' To 40', Add	14.84	
			For Elevated Installation >40', Add	16.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-0337	EA		2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	47.32	14.59
			For Work In Restricted Working Space, Add	10.97	
			For Elevated Installation >10' To 15', Add	3.66	
			For Elevated Installation >15' To 20', Add	7.31	
			For Elevated Installation >20' To 25', Add	9.14	
			For Elevated Installation >25' To 30', Add	12.79	
			For Elevated Installation >30' To 35', Add	14.62	
			For Elevated Installation >35' To 40', Add	18.28	
			For Elevated Installation >40', Add	20.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.97	
26 05 33 13-0338	EA		2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	77.24	23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0339	EA		3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	122.58	32.74
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33 13-0340	EA		3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	151.15	38.67
			For Work In Restricted Working Space, Add	28.84	
			For Elevated Installation >10' To 15', Add	9.61	
			For Elevated Installation >15' To 20', Add	19.22	
			For Elevated Installation >20' To 25', Add	24.03	
			For Elevated Installation >25' To 30', Add	33.64	
			For Elevated Installation >30' To 35', Add	38.45	
			For Elevated Installation >35' To 40', Add	48.06	
			For Elevated Installation >40', Add	52.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.84	
26 05 33 13-0341	EA		4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	180.73	44.60
			For Work In Restricted Working Space, Add	33.45	
			For Elevated Installation >10' To 15', Add	11.15	
			For Elevated Installation >15' To 20', Add	22.30	
			For Elevated Installation >20' To 25', Add	27.88	
			For Elevated Installation >25' To 30', Add	39.03	
			For Elevated Installation >30' To 35', Add	44.60	
			For Elevated Installation >35' To 40', Add	55.75	
			For Elevated Installation >40', Add	61.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.45	
26 05 33 13-0342 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0060)					
Note: Erickson fittings.					
26 05 33 13-0343	EA		1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	50.27	18.98
			For Work In Restricted Working Space, Add	14.25	
			For Elevated Installation >10' To 15', Add	4.75	
			For Elevated Installation >15' To 20', Add	9.50	
			For Elevated Installation >20' To 25', Add	11.88	
			For Elevated Installation >25' To 30', Add	16.63	
			For Elevated Installation >30' To 35', Add	19.00	
			For Elevated Installation >35' To 40', Add	23.75	
			For Elevated Installation >40', Add	26.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.25	
26 05 33 13-0344	EA		3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	56.56	21.23
			For Work In Restricted Working Space, Add	15.90	
			For Elevated Installation >10' To 15', Add	5.30	
			For Elevated Installation >15' To 20', Add	10.60	
			For Elevated Installation >20' To 25', Add	13.25	
			For Elevated Installation >25' To 30', Add	18.55	
			For Elevated Installation >30' To 35', Add	21.20	
			For Elevated Installation >35' To 40', Add	26.51	
			For Elevated Installation >40', Add	29.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.90	
26 05 33 13-0345	EA		1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	65.60	23.60
			For Work In Restricted Working Space, Add	17.72	
			For Elevated Installation >10' To 15', Add	5.91	
			For Elevated Installation >15' To 20', Add	11.81	
			For Elevated Installation >20' To 25', Add	14.76	
			For Elevated Installation >25' To 30', Add	20.67	
			For Elevated Installation >30' To 35', Add	23.62	
			For Elevated Installation >35' To 40', Add	29.53	
			For Elevated Installation >40', Add	32.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-0346	EA		1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	78.60	25.85
			For Work In Restricted Working Space, Add	19.39	
			For Elevated Installation >10' To 15', Add	6.46	
			For Elevated Installation >15' To 20', Add	12.92	
			For Elevated Installation >20' To 25', Add	16.16	
			For Elevated Installation >25' To 30', Add	22.62	
			For Elevated Installation >30' To 35', Add	25.85	
			For Elevated Installation >35' To 40', Add	32.31	
			For Elevated Installation >40', Add	35.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.39	
26 05 33 13-0347	EA		1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	87.44	28.23
			For Work In Restricted Working Space, Add	21.21	
			For Elevated Installation >10' To 15', Add	7.07	
			For Elevated Installation >15' To 20', Add	14.14	
			For Elevated Installation >20' To 25', Add	17.67	
			For Elevated Installation >25' To 30', Add	24.74	
			For Elevated Installation >30' To 35', Add	28.28	
			For Elevated Installation >35' To 40', Add	35.35	
			For Elevated Installation >40', Add	38.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.21	

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0348	EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	110.11		30.60
	For Work In Restricted Working Space, Add	22.97		
	For Elevated Installation >10' To 15', Add	7.66		
	For Elevated Installation >15' To 20', Add	15.31		
	For Elevated Installation >20' To 25', Add	19.14		
	For Elevated Installation >25' To 30', Add	26.80		
	For Elevated Installation >30' To 35', Add	30.62		
	For Elevated Installation >35' To 40', Add	38.28		
	For Elevated Installation >40', Add	42.11		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.97		
26 05 33 13-0349	EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	172.59		37.96
	For Work In Restricted Working Space, Add	28.46		
	For Elevated Installation >10' To 15', Add	9.49		
	For Elevated Installation >15' To 20', Add	18.98		
	For Elevated Installation >20' To 25', Add	23.72		
	For Elevated Installation >25' To 30', Add	33.21		
	For Elevated Installation >30' To 35', Add	37.95		
	For Elevated Installation >35' To 40', Add	47.44		
	For Elevated Installation >40', Add	52.18		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46		
26 05 33 13-0350	EA 3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	236.55		47.44
	For Work In Restricted Working Space, Add	35.58		
	For Elevated Installation >10' To 15', Add	11.86		
	For Elevated Installation >15' To 20', Add	23.72		
	For Elevated Installation >20' To 25', Add	29.65		
	For Elevated Installation >25' To 30', Add	41.51		
	For Elevated Installation >30' To 35', Add	47.44		
	For Elevated Installation >35' To 40', Add	59.30		
	For Elevated Installation >40', Add	65.23		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.58		
26 05 33 13-0351	EA 3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	338.83		56.93
	For Work In Restricted Working Space, Add	42.71		
	For Elevated Installation >10' To 15', Add	14.24		
	For Elevated Installation >15' To 20', Add	28.47		
	For Elevated Installation >20' To 25', Add	35.59		
	For Elevated Installation >25' To 30', Add	49.83		
	For Elevated Installation >30' To 35', Add	56.95		
	For Elevated Installation >35' To 40', Add	71.19		
	For Elevated Installation >40', Add	78.30		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.71		
26 05 33 13-0352	EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	385.20		61.67
	For Work In Restricted Working Space, Add	46.25		
	For Elevated Installation >10' To 15', Add	15.42		
	For Elevated Installation >15' To 20', Add	30.83		
	For Elevated Installation >20' To 25', Add	38.54		
	For Elevated Installation >25' To 30', Add	53.96		
	For Elevated Installation >30' To 35', Add	61.67		
	For Elevated Installation >35' To 40', Add	77.09		
	For Elevated Installation >40', Add	84.79		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.25		
26 05 33 13-0353	EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	663.90		75.90
	For Work In Restricted Working Space, Add	56.92		
	For Elevated Installation >10' To 15', Add	18.97		
	For Elevated Installation >15' To 20', Add	37.95		
	For Elevated Installation >20' To 25', Add	47.44		
	For Elevated Installation >25' To 30', Add	66.41		
	For Elevated Installation >30' To 35', Add	75.90		
	For Elevated Installation >35' To 40', Add	94.87		
	For Elevated Installation >40', Add	104.36		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.92		
26 05 33 13-0354	EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	851.41		87.76
	For Work In Restricted Working Space, Add	65.82		
	For Elevated Installation >10' To 15', Add	21.94		
	For Elevated Installation >15' To 20', Add	43.88		
	For Elevated Installation >20' To 25', Add	54.85		
	For Elevated Installation >25' To 30', Add	76.79		
	For Elevated Installation >30' To 35', Add	87.76		
	For Elevated Installation >35' To 40', Add	109.70		
	For Elevated Installation >40', Add	120.66		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.82		
26 05 33 13-0355	Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0060)			
26 05 33 13-0356	EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	29.60		9.48
	For Work In Restricted Working Space, Add	7.12		
	For Elevated Installation >10' To 15', Add	2.37		
	For Elevated Installation >15' To 20', Add	4.74		
	For Elevated Installation >20' To 25', Add	5.93		
	For Elevated Installation >25' To 30', Add	8.30		
	For Elevated Installation >30' To 35', Add	9.49		
	For Elevated Installation >35' To 40', Add	11.86		
	For Elevated Installation >40', Add	13.05		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0357	EA		3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	33.04	10.44
			For Work In Restricted Working Space, Add	7.83	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.22	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.13	
			For Elevated Installation >30' To 35', Add	10.44	
			For Elevated Installation >35' To 40', Add	13.05	
			For Elevated Installation >40', Add	14.35	
26 05 33 13-0358	EA		1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	37.94	11.86
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.42	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
26 05 33 13-0359	EA		1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	42.95	12.81
			For Work In Restricted Working Space, Add	9.61	
			For Elevated Installation >10' To 15', Add	3.20	
			For Elevated Installation >15' To 20', Add	6.40	
			For Elevated Installation >20' To 25', Add	8.01	
			For Elevated Installation >25' To 30', Add	11.21	
			For Elevated Installation >30' To 35', Add	12.81	
			For Elevated Installation >35' To 40', Add	16.01	
			For Elevated Installation >40', Add	17.61	
26 05 33 13-0360	EA		1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	50.82	14.23
			For Work In Restricted Working Space, Add	10.68	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.46	
			For Elevated Installation >30' To 35', Add	14.24	
			For Elevated Installation >35' To 40', Add	17.80	
			For Elevated Installation >40', Add	19.57	
26 05 33 13-0361	EA		2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	61.66	15.66
			For Work In Restricted Working Space, Add	11.74	
			For Elevated Installation >10' To 15', Add	3.91	
			For Elevated Installation >15' To 20', Add	7.83	
			For Elevated Installation >20' To 25', Add	9.79	
			For Elevated Installation >25' To 30', Add	13.70	
			For Elevated Installation >30' To 35', Add	15.66	
			For Elevated Installation >35' To 40', Add	19.57	
			For Elevated Installation >40', Add	21.53	
26 05 33 13-0362	EA		2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	83.53	18.98
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
26 05 33 13-0363	EA		3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	103.34	23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
26 05 33 13-0364	EA		3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	124.14	28.46
			For Work In Restricted Working Space, Add	21.35	
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.91	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.14	
26 05 33 13-0365	EA		4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	140.01	30.84
			For Work In Restricted Working Space, Add	23.13	
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	

26 05 33 13-0366 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0060)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0367	EA		1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	26.23	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0368	EA		3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	29.23	11.86
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0369	EA		1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	36.11	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-0370	EA		1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	44.36	17.79
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.67	
26 05 33 13-0371	EA		1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	57.09	23.72
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0372	EA		2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	66.26	26.68
			For Work In Restricted Working Space, Add	16.01	
			For Elevated Installation >10' To 15', Add	5.34	
			For Elevated Installation >15' To 20', Add	10.67	
			For Elevated Installation >20' To 25', Add	13.34	
			For Elevated Installation >25' To 30', Add	18.68	
			For Elevated Installation >30' To 35', Add	21.35	
			For Elevated Installation >35' To 40', Add	26.69	
			For Elevated Installation >40', Add	29.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.01	
26 05 33 13-0373	EA		2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	81.19	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0374	EA		3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs	109.04	37.36
			For Work In Restricted Working Space, Add	22.42	
			For Elevated Installation >10' To 15', Add	7.47	
			For Elevated Installation >15' To 20', Add	14.94	
			For Elevated Installation >20' To 25', Add	18.68	
			For Elevated Installation >25' To 30', Add	26.15	
			For Elevated Installation >30' To 35', Add	29.89	
			For Elevated Installation >35' To 40', Add	37.36	
			For Elevated Installation >40', Add	41.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0375	EA		3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	129.54	45.07
			For Work In Restricted Working Space, Add	27.04	
			For Elevated Installation >10' To 15', Add	9.01	
			For Elevated Installation >15' To 20', Add	18.03	
			For Elevated Installation >20' To 25', Add	22.54	
			For Elevated Installation >25' To 30', Add	31.55	
			For Elevated Installation >30' To 35', Add	36.06	
			For Elevated Installation >35' To 40', Add	45.07	
			For Elevated Installation >40', Add	49.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.04	
26 05 33 13-0376	EA		4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	158.69	53.37
			For Work In Restricted Working Space, Add	32.02	
			For Elevated Installation >10' To 15', Add	10.67	
			For Elevated Installation >15' To 20', Add	21.35	
			For Elevated Installation >20' To 25', Add	26.69	
			For Elevated Installation >25' To 30', Add	37.36	
			For Elevated Installation >30' To 35', Add	42.70	
			For Elevated Installation >35' To 40', Add	53.37	
			For Elevated Installation >40', Add	58.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.02	
26 05 33 13-0377			Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement (26 05		
			33 13-0060)		
			Note: Type AX		
26 05 33 13-0378	EA		1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	123.32	18.98
			For Work In Restricted Working Space, Add	14.24	
			For Elevated Installation >10' To 15', Add	4.75	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.61	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.73	
			For Elevated Installation >40', Add	26.10	
26 05 33 13-0379	EA		3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	139.98	21.35
			For Work In Restricted Working Space, Add	16.01	
			For Elevated Installation >10' To 15', Add	5.34	
			For Elevated Installation >15' To 20', Add	10.67	
			For Elevated Installation >20' To 25', Add	13.34	
			For Elevated Installation >25' To 30', Add	18.68	
			For Elevated Installation >30' To 35', Add	21.35	
			For Elevated Installation >35' To 40', Add	26.69	
			For Elevated Installation >40', Add	29.35	
26 05 33 13-0380	EA		1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	165.86	23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.66	
			For Elevated Installation >40', Add	32.62	
26 05 33 13-0381	EA		1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	203.24	26.09
			For Work In Restricted Working Space, Add	19.57	
			For Elevated Installation >10' To 15', Add	6.52	
			For Elevated Installation >15' To 20', Add	13.05	
			For Elevated Installation >20' To 25', Add	16.31	
			For Elevated Installation >25' To 30', Add	22.83	
			For Elevated Installation >30' To 35', Add	26.09	
			For Elevated Installation >35' To 40', Add	32.62	
			For Elevated Installation >40', Add	35.88	
26 05 33 13-0382	EA		1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	255.59	28.46
			For Work In Restricted Working Space, Add	21.35	
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.90	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.13	
26 05 33 13-0383	EA		2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	353.73	30.84
			For Work In Restricted Working Space, Add	23.12	
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.83	
			For Elevated Installation >35' To 40', Add	38.54	
			For Elevated Installation >40', Add	42.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0384	EA		2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	542.10	37.96
			For Work In Restricted Working Space, Add	28.46	
			For Elevated Installation >10' To 15', Add	9.49	
			For Elevated Installation >15' To 20', Add	18.98	
			For Elevated Installation >20' To 25', Add	23.72	
			For Elevated Installation >25' To 30', Add	33.21	
			For Elevated Installation >30' To 35', Add	37.95	
			For Elevated Installation >35' To 40', Add	47.44	
			For Elevated Installation >40', Add	52.18	
26 05 33 13-0385	EA		3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	694.60	47.44
			For Work In Restricted Working Space, Add	35.58	
			For Elevated Installation >10' To 15', Add	11.86	
			For Elevated Installation >15' To 20', Add	23.72	
			For Elevated Installation >20' To 25', Add	29.65	
			For Elevated Installation >25' To 30', Add	41.51	
			For Elevated Installation >30' To 35', Add	47.44	
			For Elevated Installation >35' To 40', Add	59.30	
			For Elevated Installation >40', Add	65.23	
26 05 33 13-0386	EA		3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	1,014.60	56.93
			For Work In Restricted Working Space, Add	42.70	
			For Elevated Installation >10' To 15', Add	14.23	
			For Elevated Installation >15' To 20', Add	28.47	
			For Elevated Installation >20' To 25', Add	35.59	
			For Elevated Installation >25' To 30', Add	49.82	
			For Elevated Installation >30' To 35', Add	56.94	
			For Elevated Installation >35' To 40', Add	71.17	
			For Elevated Installation >40', Add	78.29	
26 05 33 13-0387	EA		4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,081.50	61.67
			For Work In Restricted Working Space, Add	46.25	
			For Elevated Installation >10' To 15', Add	15.42	
			For Elevated Installation >15' To 20', Add	30.83	
			For Elevated Installation >20' To 25', Add	38.54	
			For Elevated Installation >25' To 30', Add	53.96	
			For Elevated Installation >30' To 35', Add	61.67	
			For Elevated Installation >35' To 40', Add	77.09	
			For Elevated Installation >40', Add	84.79	
26 05 33 13-0388	EA		5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	1,657.41	75.90
			For Work In Restricted Working Space, Add	56.93	
			For Elevated Installation >10' To 15', Add	18.98	
			For Elevated Installation >15' To 20', Add	37.95	
			For Elevated Installation >20' To 25', Add	47.44	
			For Elevated Installation >25' To 30', Add	66.42	
			For Elevated Installation >30' To 35', Add	75.91	
			For Elevated Installation >35' To 40', Add	94.89	
			For Elevated Installation >40', Add	104.37	
26 05 33 13-0389	EA		6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	2,036.42	84.21
			For Work In Restricted Working Space, Add	63.19	
			For Elevated Installation >10' To 15', Add	21.06	
			For Elevated Installation >15' To 20', Add	42.13	
			For Elevated Installation >20' To 25', Add	52.66	
			For Elevated Installation >25' To 30', Add	73.72	
			For Elevated Installation >30' To 35', Add	84.26	
			For Elevated Installation >35' To 40', Add	105.32	
			For Elevated Installation >40', Add	115.85	
26 05 33 13-0390			Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement (26 05		
			33 13-0060)		
			Note: Type AX-8		
26 05 33 13-0391	EA		1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	136.00	18.98
			For Work In Restricted Working Space, Add	14.24	
			For Elevated Installation >10' To 15', Add	4.75	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.61	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.73	
			For Elevated Installation >40', Add	26.10	
26 05 33 13-0392	EA		3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	151.21	21.35
			For Work In Restricted Working Space, Add	16.01	
			For Elevated Installation >10' To 15', Add	5.34	
			For Elevated Installation >15' To 20', Add	10.67	
			For Elevated Installation >20' To 25', Add	13.34	
			For Elevated Installation >25' To 30', Add	18.68	
			For Elevated Installation >30' To 35', Add	21.35	
			For Elevated Installation >35' To 40', Add	26.69	
			For Elevated Installation >40', Add	29.35	
26 05 33 13-0393	EA		1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	183.49	23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.66	
			For Elevated Installation >40', Add	32.62	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0394	EA	1-1/4"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	231.01 19.57 6.52 13.05 16.31 22.83 26.09 32.62 35.88	26.09
26 05 33 13-0395	EA	1-1/2"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	310.77 21.35 7.12 14.23 17.79 24.90 28.46 35.58 39.13	28.46
26 05 33 13-0396	EA	2"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	380.10 23.12 7.71 15.42 19.27 26.98 30.83 38.54 42.39	30.84
26 05 33 13-0397	EA	2-1/2"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	713.03 28.46 9.49 18.98 23.72 33.21 37.95 47.44 52.18	37.96
26 05 33 13-0398	EA	3"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	811.32 35.58 11.86 23.72 29.65 41.51 47.44 59.30 65.23	47.44
26 05 33 13-0399	EA	3-1/2"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	1,245.26 42.70 14.23 28.47 35.59 49.82 56.94 71.17 78.29	56.93
26 05 33 13-0400	EA	4"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	1,348.10 46.25 15.42 30.83 38.54 53.96 61.67 77.09 84.79	61.67
26 05 33 13-0401	EA	5"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	1,882.14 56.93 18.98 37.95 47.44 66.42 75.91 94.89 104.37	75.90
26 05 33 13-0402	EA	6"	Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	2,325.55 63.19 21.06 42.13 52.66 73.72 84.26 105.32 115.85	84.21

26 05 33 13-0403 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0060)
Note: Type EX

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0404	EA		1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	154.56	18.98
			<i>For Work In Restricted Working Space, Add</i>	14.24	
			<i>For Elevated Installation >10' To 15', Add</i>	4.75	
			<i>For Elevated Installation >15' To 20', Add</i>	9.49	
			<i>For Elevated Installation >20' To 25', Add</i>	11.86	
			<i>For Elevated Installation >25' To 30', Add</i>	16.61	
			<i>For Elevated Installation >30' To 35', Add</i>	18.98	
			<i>For Elevated Installation >35' To 40', Add</i>	23.73	
			<i>For Elevated Installation >40', Add</i>	26.10	
26 05 33 13-0405	EA		3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	194.98	21.35
			<i>For Work In Restricted Working Space, Add</i>	16.01	
			<i>For Elevated Installation >10' To 15', Add</i>	5.34	
			<i>For Elevated Installation >15' To 20', Add</i>	10.67	
			<i>For Elevated Installation >20' To 25', Add</i>	13.34	
			<i>For Elevated Installation >25' To 30', Add</i>	18.68	
			<i>For Elevated Installation >30' To 35', Add</i>	21.35	
			<i>For Elevated Installation >35' To 40', Add</i>	26.69	
			<i>For Elevated Installation >40', Add</i>	29.35	
26 05 33 13-0406	EA		1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	242.61	23.72
			<i>For Work In Restricted Working Space, Add</i>	17.79	
			<i>For Elevated Installation >10' To 15', Add</i>	5.93	
			<i>For Elevated Installation >15' To 20', Add</i>	11.86	
			<i>For Elevated Installation >20' To 25', Add</i>	14.83	
			<i>For Elevated Installation >25' To 30', Add</i>	20.76	
			<i>For Elevated Installation >30' To 35', Add</i>	23.72	
			<i>For Elevated Installation >35' To 40', Add</i>	29.66	
			<i>For Elevated Installation >40', Add</i>	32.62	
26 05 33 13-0407	EA		1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	295.03	26.09
			<i>For Work In Restricted Working Space, Add</i>	19.57	
			<i>For Elevated Installation >10' To 15', Add</i>	6.52	
			<i>For Elevated Installation >15' To 20', Add</i>	13.05	
			<i>For Elevated Installation >20' To 25', Add</i>	16.31	
			<i>For Elevated Installation >25' To 30', Add</i>	22.83	
			<i>For Elevated Installation >30' To 35', Add</i>	26.09	
			<i>For Elevated Installation >35' To 40', Add</i>	32.62	
			<i>For Elevated Installation >40', Add</i>	35.88	
26 05 33 13-0408	EA		1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	397.45	28.46
			<i>For Work In Restricted Working Space, Add</i>	21.35	
			<i>For Elevated Installation >10' To 15', Add</i>	7.12	
			<i>For Elevated Installation >15' To 20', Add</i>	14.23	
			<i>For Elevated Installation >20' To 25', Add</i>	17.79	
			<i>For Elevated Installation >25' To 30', Add</i>	24.90	
			<i>For Elevated Installation >30' To 35', Add</i>	28.46	
			<i>For Elevated Installation >35' To 40', Add</i>	35.58	
			<i>For Elevated Installation >40', Add</i>	39.13	
26 05 33 13-0409	EA		2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	547.61	30.84
			<i>For Work In Restricted Working Space, Add</i>	23.12	
			<i>For Elevated Installation >10' To 15', Add</i>	7.71	
			<i>For Elevated Installation >15' To 20', Add</i>	15.42	
			<i>For Elevated Installation >20' To 25', Add</i>	19.27	
			<i>For Elevated Installation >25' To 30', Add</i>	26.98	
			<i>For Elevated Installation >30' To 35', Add</i>	30.83	
			<i>For Elevated Installation >35' To 40', Add</i>	38.54	
			<i>For Elevated Installation >40', Add</i>	42.39	
26 05 33 13-0410	EA		2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	850.94	37.96
			<i>For Work In Restricted Working Space, Add</i>	28.46	
			<i>For Elevated Installation >10' To 15', Add</i>	9.49	
			<i>For Elevated Installation >15' To 20', Add</i>	18.98	
			<i>For Elevated Installation >20' To 25', Add</i>	23.72	
			<i>For Elevated Installation >25' To 30', Add</i>	33.21	
			<i>For Elevated Installation >30' To 35', Add</i>	37.95	
			<i>For Elevated Installation >35' To 40', Add</i>	47.44	
			<i>For Elevated Installation >40', Add</i>	52.18	
26 05 33 13-0411	EA		3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,147.11	47.44
			<i>For Work In Restricted Working Space, Add</i>	35.58	
			<i>For Elevated Installation >10' To 15', Add</i>	11.86	
			<i>For Elevated Installation >15' To 20', Add</i>	23.72	
			<i>For Elevated Installation >20' To 25', Add</i>	29.65	
			<i>For Elevated Installation >25' To 30', Add</i>	41.51	
			<i>For Elevated Installation >30' To 35', Add</i>	47.44	
			<i>For Elevated Installation >35' To 40', Add</i>	59.30	
			<i>For Elevated Installation >40', Add</i>	65.23	
26 05 33 13-0412	EA		3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,722.86	56.93
			<i>For Work In Restricted Working Space, Add</i>	42.70	
			<i>For Elevated Installation >10' To 15', Add</i>	14.23	
			<i>For Elevated Installation >15' To 20', Add</i>	28.47	
			<i>For Elevated Installation >20' To 25', Add</i>	35.59	
			<i>For Elevated Installation >25' To 30', Add</i>	49.82	
			<i>For Elevated Installation >30' To 35', Add</i>	56.94	
			<i>For Elevated Installation >35' To 40', Add</i>	71.17	
			<i>For Elevated Installation >40', Add</i>	78.29	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0413	EA	4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,783.13	61.67
		For Work In Restricted Working Space, Add	46.25	
		For Elevated Installation >10' To 15', Add	15.42	
		For Elevated Installation >15' To 20', Add	30.83	
		For Elevated Installation >20' To 25', Add	38.54	
		For Elevated Installation >25' To 30', Add	53.96	
		For Elevated Installation >30' To 35', Add	61.67	
		For Elevated Installation >35' To 40', Add	77.09	
		For Elevated Installation >40', Add	84.79	
26 05 33 13-0414	EA	5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,684.04	75.90
		For Work In Restricted Working Space, Add	56.93	
		For Elevated Installation >10' To 15', Add	18.98	
		For Elevated Installation >15' To 20', Add	37.95	
		For Elevated Installation >20' To 25', Add	47.44	
		For Elevated Installation >25' To 30', Add	66.42	
		For Elevated Installation >30' To 35', Add	75.91	
		For Elevated Installation >35' To 40', Add	94.89	
		For Elevated Installation >40', Add	104.37	
26 05 33 13-0415	EA	6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	3,327.67	84.21
		For Work In Restricted Working Space, Add	63.19	
		For Elevated Installation >10' To 15', Add	21.06	
		For Elevated Installation >15' To 20', Add	42.13	
		For Elevated Installation >20' To 25', Add	52.66	
		For Elevated Installation >25' To 30', Add	73.72	
		For Elevated Installation >30' To 35', Add	84.26	
		For Elevated Installation >35' To 40', Add	105.32	
		For Elevated Installation >40', Add	115.85	
26 05 33 13-0416 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings (26 05 33 13-0060)				
Note: Type DX				
26 05 33 13-0417	EA	1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	269.03	18.98
		For Work In Restricted Working Space, Add	14.24	
		For Elevated Installation >10' To 15', Add	4.75	
		For Elevated Installation >15' To 20', Add	9.49	
		For Elevated Installation >20' To 25', Add	11.86	
		For Elevated Installation >25' To 30', Add	16.61	
		For Elevated Installation >30' To 35', Add	18.98	
		For Elevated Installation >35' To 40', Add	23.73	
		For Elevated Installation >40', Add	26.10	
26 05 33 13-0418	EA	3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	320.51	21.35
		For Work In Restricted Working Space, Add	16.01	
		For Elevated Installation >10' To 15', Add	5.34	
		For Elevated Installation >15' To 20', Add	10.67	
		For Elevated Installation >20' To 25', Add	13.34	
		For Elevated Installation >25' To 30', Add	18.68	
		For Elevated Installation >30' To 35', Add	21.35	
		For Elevated Installation >35' To 40', Add	26.69	
		For Elevated Installation >40', Add	29.35	
26 05 33 13-0419	EA	1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	387.48	23.72
		For Work In Restricted Working Space, Add	17.79	
		For Elevated Installation >10' To 15', Add	5.93	
		For Elevated Installation >15' To 20', Add	11.86	
		For Elevated Installation >20' To 25', Add	14.83	
		For Elevated Installation >25' To 30', Add	20.76	
		For Elevated Installation >30' To 35', Add	23.72	
		For Elevated Installation >35' To 40', Add	29.66	
		For Elevated Installation >40', Add	32.62	
26 05 33 13-0420	EA	1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	455.54	26.09
		For Work In Restricted Working Space, Add	19.57	
		For Elevated Installation >10' To 15', Add	6.52	
		For Elevated Installation >15' To 20', Add	13.05	
		For Elevated Installation >20' To 25', Add	16.31	
		For Elevated Installation >25' To 30', Add	22.83	
		For Elevated Installation >30' To 35', Add	26.09	
		For Elevated Installation >35' To 40', Add	32.62	
		For Elevated Installation >40', Add	35.88	
26 05 33 13-0421	EA	1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	503.76	28.46
		For Work In Restricted Working Space, Add	21.35	
		For Elevated Installation >10' To 15', Add	7.12	
		For Elevated Installation >15' To 20', Add	14.23	
		For Elevated Installation >20' To 25', Add	17.79	
		For Elevated Installation >25' To 30', Add	24.90	
		For Elevated Installation >30' To 35', Add	28.46	
		For Elevated Installation >35' To 40', Add	35.58	
		For Elevated Installation >40', Add	39.13	
26 05 33 13-0422	EA	2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	622.68	30.84
		For Work In Restricted Working Space, Add	23.12	
		For Elevated Installation >10' To 15', Add	7.71	
		For Elevated Installation >15' To 20', Add	15.42	
		For Elevated Installation >20' To 25', Add	19.27	
		For Elevated Installation >25' To 30', Add	26.98	
		For Elevated Installation >30' To 35', Add	30.83	
		For Elevated Installation >35' To 40', Add	38.54	
		For Elevated Installation >40', Add	42.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0423 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	823.07	37.96
For Work In Restricted Working Space, Add	28.46	
For Elevated Installation >10' To 15', Add	9.49	
For Elevated Installation >15' To 20', Add	18.98	
For Elevated Installation >20' To 25', Add	23.72	
For Elevated Installation >25' To 30', Add	33.21	
For Elevated Installation >30' To 35', Add	37.95	
For Elevated Installation >35' To 40', Add	47.44	
For Elevated Installation >40', Add	52.18	
26 05 33 13-0424 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,043.83	47.44
For Work In Restricted Working Space, Add	35.58	
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.72	
For Elevated Installation >20' To 25', Add	29.65	
For Elevated Installation >25' To 30', Add	41.51	
For Elevated Installation >30' To 35', Add	47.44	
For Elevated Installation >35' To 40', Add	59.30	
For Elevated Installation >40', Add	65.23	
26 05 33 13-0425 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,174.45	56.93
For Work In Restricted Working Space, Add	42.70	
For Elevated Installation >10' To 15', Add	14.23	
For Elevated Installation >15' To 20', Add	28.47	
For Elevated Installation >20' To 25', Add	35.59	
For Elevated Installation >25' To 30', Add	49.82	
For Elevated Installation >30' To 35', Add	56.94	
For Elevated Installation >35' To 40', Add	71.17	
For Elevated Installation >40', Add	78.29	
26 05 33 13-0426 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	1,424.29	61.67
For Work In Restricted Working Space, Add	46.25	
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.83	
For Elevated Installation >20' To 25', Add	38.54	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.79	
26 05 33 13-0427 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	2,436.59	75.90
For Work In Restricted Working Space, Add	56.93	
For Elevated Installation >10' To 15', Add	18.98	
For Elevated Installation >15' To 20', Add	37.95	
For Elevated Installation >20' To 25', Add	47.44	
For Elevated Installation >25' To 30', Add	66.42	
For Elevated Installation >30' To 35', Add	75.91	
For Elevated Installation >35' To 40', Add	94.89	
For Elevated Installation >40', Add	104.37	
26 05 33 13-0428 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	3,874.89	84.21
For Work In Restricted Working Space, Add	63.19	
For Elevated Installation >10' To 15', Add	21.06	
For Elevated Installation >15' To 20', Add	42.13	
For Elevated Installation >20' To 25', Add	52.66	
For Elevated Installation >25' To 30', Add	73.72	
For Elevated Installation >30' To 35', Add	84.26	
For Elevated Installation >35' To 40', Add	105.32	
For Elevated Installation >40', Add	115.85	
26 05 33 13-0429 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0060)		
26 05 33 13-0430 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper.....	69.40	9.48
For Work In Restricted Working Space, Add	7.12	
For Elevated Installation >10' To 15', Add	2.37	
For Elevated Installation >15' To 20', Add	4.74	
For Elevated Installation >20' To 25', Add	5.93	
For Elevated Installation >25' To 30', Add	8.30	
For Elevated Installation >30' To 35', Add	9.49	
For Elevated Installation >35' To 40', Add	11.86	
For Elevated Installation >40', Add	13.05	
26 05 33 13-0431 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper.....	79.96	11.86
For Work In Restricted Working Space, Add	8.90	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.93	
For Elevated Installation >20' To 25', Add	7.42	
For Elevated Installation >25' To 30', Add	10.38	
For Elevated Installation >30' To 35', Add	11.86	
For Elevated Installation >35' To 40', Add	14.83	
For Elevated Installation >40', Add	16.31	
26 05 33 13-0432 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper.....	98.57	14.23
For Work In Restricted Working Space, Add	10.67	
For Elevated Installation >10' To 15', Add	3.56	
For Elevated Installation >15' To 20', Add	7.12	
For Elevated Installation >20' To 25', Add	8.90	
For Elevated Installation >25' To 30', Add	12.45	
For Elevated Installation >30' To 35', Add	14.23	
For Elevated Installation >35' To 40', Add	17.79	
For Elevated Installation >40', Add	19.57	



Electrical		26
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0433	EA 2-1/2" To 3" Conduit, 14" Bonding Jumper	138.47		18.98
	For Work In Restricted Working Space, Add	14.23		
	For Elevated Installation >10' To 15', Add	4.74		
	For Elevated Installation >15' To 20', Add	9.49		
	For Elevated Installation >20' To 25', Add	11.86		
	For Elevated Installation >25' To 30', Add	16.60		
	For Elevated Installation >30' To 35', Add	18.98		
	For Elevated Installation >35' To 40', Add	23.72		
	For Elevated Installation >40', Add	26.09		
26 05 33 13-0434	EA 3-1/2" To 4" Conduit, 14" Bonding Jumper	209.79		28.46
	For Work In Restricted Working Space, Add	21.35		
	For Elevated Installation >10' To 15', Add	7.12		
	For Elevated Installation >15' To 20', Add	14.23		
	For Elevated Installation >20' To 25', Add	17.79		
	For Elevated Installation >25' To 30', Add	24.91		
	For Elevated Installation >30' To 35', Add	28.46		
	For Elevated Installation >35' To 40', Add	35.58		
	For Elevated Installation >40', Add	39.14		
26 05 33 13-0435	EA 5" To 6" Conduit, 14" Bonding Jumper	358.27		37.96
	For Work In Restricted Working Space, Add	28.46		
	For Elevated Installation >10' To 15', Add	9.49		
	For Elevated Installation >15' To 20', Add	18.98		
	For Elevated Installation >20' To 25', Add	23.72		
	For Elevated Installation >25' To 30', Add	33.21		
	For Elevated Installation >30' To 35', Add	37.95		
	For Elevated Installation >35' To 40', Add	47.44		
	For Elevated Installation >40', Add	52.18		
26 05 33 13-0436	EA 1/2" To 3/4" Conduit, 24" Bonding Jumper	77.23		9.48
	For Work In Restricted Working Space, Add	7.12		
	For Elevated Installation >10' To 15', Add	2.37		
	For Elevated Installation >15' To 20', Add	4.74		
	For Elevated Installation >20' To 25', Add	5.93		
	For Elevated Installation >25' To 30', Add	8.30		
	For Elevated Installation >30' To 35', Add	9.49		
	For Elevated Installation >35' To 40', Add	11.86		
	For Elevated Installation >40', Add	13.05		
26 05 33 13-0437	EA 1" To 1-1/4" Conduit, 24" Bonding Jumper	89.85		11.86
	For Work In Restricted Working Space, Add	8.90		
	For Elevated Installation >10' To 15', Add	2.97		
	For Elevated Installation >15' To 20', Add	5.93		
	For Elevated Installation >20' To 25', Add	7.42		
	For Elevated Installation >25' To 30', Add	10.38		
	For Elevated Installation >30' To 35', Add	11.86		
	For Elevated Installation >35' To 40', Add	14.83		
	For Elevated Installation >40', Add	16.31		
26 05 33 13-0438	EA 1-1/2" To 2" Conduit, 24" Bonding Jumper	107.63		14.23
	For Work In Restricted Working Space, Add	10.67		
	For Elevated Installation >10' To 15', Add	3.56		
	For Elevated Installation >15' To 20', Add	7.12		
	For Elevated Installation >20' To 25', Add	8.90		
	For Elevated Installation >25' To 30', Add	12.45		
	For Elevated Installation >30' To 35', Add	14.23		
	For Elevated Installation >35' To 40', Add	17.79		
	For Elevated Installation >40', Add	19.57		
26 05 33 13-0439	EA 2-1/2" To 3" Conduit, 24" Bonding Jumper	150.49		18.98
	For Work In Restricted Working Space, Add	14.23		
	For Elevated Installation >10' To 15', Add	4.74		
	For Elevated Installation >15' To 20', Add	9.49		
	For Elevated Installation >20' To 25', Add	11.86		
	For Elevated Installation >25' To 30', Add	16.60		
	For Elevated Installation >30' To 35', Add	18.98		
	For Elevated Installation >35' To 40', Add	23.72		
	For Elevated Installation >40', Add	26.09		
26 05 33 13-0440	EA 3-1/2" To 4" Conduit, 24" Bonding Jumper	225.74		28.46
	For Work In Restricted Working Space, Add	21.35		
	For Elevated Installation >10' To 15', Add	7.12		
	For Elevated Installation >15' To 20', Add	14.23		
	For Elevated Installation >20' To 25', Add	17.79		
	For Elevated Installation >25' To 30', Add	24.91		
	For Elevated Installation >30' To 35', Add	28.46		
	For Elevated Installation >35' To 40', Add	35.58		
	For Elevated Installation >40', Add	39.14		
26 05 33 13-0441	EA 5" To 6" Conduit, 24" Bonding Jumper	409.70		37.96
	For Work In Restricted Working Space, Add	28.46		
	For Elevated Installation >10' To 15', Add	9.49		
	For Elevated Installation >15' To 20', Add	18.98		
	For Elevated Installation >20' To 25', Add	23.72		
	For Elevated Installation >25' To 30', Add	33.21		
	For Elevated Installation >30' To 35', Add	37.95		
	For Elevated Installation >35' To 40', Add	47.44		
	For Elevated Installation >40', Add	52.18		

26 05 33 13-0442 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0060)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0443	EA		1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	100.07	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0444	EA		3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	119.05	35.58
			For Work In Restricted Working Space, Add	21.35	
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.91	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.35	
26 05 33 13-0445	EA		1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	144.57	41.51
			For Work In Restricted Working Space, Add	24.91	
			For Elevated Installation >10' To 15', Add	8.30	
			For Elevated Installation >15' To 20', Add	16.61	
			For Elevated Installation >20' To 25', Add	20.76	
			For Elevated Installation >25' To 30', Add	29.06	
			For Elevated Installation >30' To 35', Add	33.21	
			For Elevated Installation >35' To 40', Add	41.52	
			For Elevated Installation >40', Add	45.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33 13-0446	EA		1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	169.62	47.44
			For Work In Restricted Working Space, Add	28.46	
			For Elevated Installation >10' To 15', Add	9.49	
			For Elevated Installation >15' To 20', Add	18.98	
			For Elevated Installation >20' To 25', Add	23.72	
			For Elevated Installation >25' To 30', Add	33.21	
			For Elevated Installation >30' To 35', Add	37.95	
			For Elevated Installation >35' To 40', Add	47.44	
			For Elevated Installation >40', Add	52.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-0447	EA		1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	219.26	53.37
			For Work In Restricted Working Space, Add	32.02	
			For Elevated Installation >10' To 15', Add	10.67	
			For Elevated Installation >15' To 20', Add	21.35	
			For Elevated Installation >20' To 25', Add	26.69	
			For Elevated Installation >25' To 30', Add	37.36	
			For Elevated Installation >30' To 35', Add	42.70	
			For Elevated Installation >35' To 40', Add	53.37	
			For Elevated Installation >40', Add	58.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.02	
26 05 33 13-0448	EA		2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	264.38	59.30
			For Work In Restricted Working Space, Add	35.58	
			For Elevated Installation >10' To 15', Add	11.86	
			For Elevated Installation >15' To 20', Add	23.72	
			For Elevated Installation >20' To 25', Add	29.65	
			For Elevated Installation >25' To 30', Add	41.51	
			For Elevated Installation >30' To 35', Add	47.44	
			For Elevated Installation >35' To 40', Add	59.30	
			For Elevated Installation >40', Add	65.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.58	
26 05 33 13-0449	EA		2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal	368.83	71.16
			For Work In Restricted Working Space, Add	42.70	
			For Elevated Installation >10' To 15', Add	14.23	
			For Elevated Installation >15' To 20', Add	28.47	
			For Elevated Installation >20' To 25', Add	35.58	
			For Elevated Installation >25' To 30', Add	49.82	
			For Elevated Installation >30' To 35', Add	56.93	
			For Elevated Installation >35' To 40', Add	71.17	
			For Elevated Installation >40', Add	78.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.70	
26 05 33 13-0450	EA		3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	442.72	83.03
			For Work In Restricted Working Space, Add	49.81	
			For Elevated Installation >10' To 15', Add	16.60	
			For Elevated Installation >15' To 20', Add	33.21	
			For Elevated Installation >20' To 25', Add	41.51	
			For Elevated Installation >25' To 30', Add	58.11	
			For Elevated Installation >30' To 35', Add	66.42	
			For Elevated Installation >35' To 40', Add	83.02	
			For Elevated Installation >40', Add	91.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.81	



MINOR		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM DESCRIPTION		
26 05 33 13-0451	EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	987.74 56.93 18.98 37.95 47.44 66.42 75.91 94.89 104.37 56.93	94.88
26 05 33 13-0452	EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,137.01 64.04 21.35 42.70 53.37 74.72 85.39 106.74 117.41 64.04	106.74
26 05 33 13-0453 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0060)			
26 05 33 13-0454	EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	15.68 4.27 1.42 2.85 3.56 4.98 5.69 7.12 7.83	7.12
26 05 33 13-0455	EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	21.98 6.05 2.02 4.03 5.04 7.06 8.06 10.08 11.09	10.09
26 05 33 13-0456	EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	28.86 7.83 2.61 5.22 6.52 9.13 10.44 13.05 14.35	13.05
26 05 33 13-0457	EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	33.15 8.90 2.97 5.93 7.41 10.38 11.86 14.83 16.31	14.82
26 05 33 13-0458	EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	39.96 10.67 3.56 7.12 8.90 12.45 14.23 17.79 19.57	17.79
26 05 33 13-0459	EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	46.85 12.10 4.03 8.06 10.08 14.11 16.13 20.16 22.18	20.16
26 05 33 13-0460	EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	59.73 13.52 4.51 9.01 11.27 15.77 18.03 22.54 24.79	22.53

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0461	EA		3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	70.06	25.50
			For Work In Restricted Working Space, Add	15.30	
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.20	
			For Elevated Installation >20' To 25', Add	12.75	
			For Elevated Installation >25' To 30', Add	17.85	
			For Elevated Installation >30' To 35', Add	20.40	
			For Elevated Installation >35' To 40', Add	25.50	
			For Elevated Installation >40', Add	28.05	
26 05 33 13-0462	EA		3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	81.49	27.87
			For Work In Restricted Working Space, Add	16.72	
			For Elevated Installation >10' To 15', Add	5.57	
			For Elevated Installation >15' To 20', Add	11.15	
			For Elevated Installation >20' To 25', Add	13.94	
			For Elevated Installation >25' To 30', Add	19.51	
			For Elevated Installation >30' To 35', Add	22.30	
			For Elevated Installation >35' To 40', Add	27.87	
			For Elevated Installation >40', Add	30.66	
26 05 33 13-0463	EA		4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	86.12	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
26 05 33 13-0464			Rigid Galvanized Steel (RGS) Sealing Locknut (26 05 33 13-0060)		
26 05 33 13-0465	EA		1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.65	1.18
26 05 33 13-0466	EA		3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	5.04	1.78
26 05 33 13-0467	EA		1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	8.37	2.96
26 05 33 13-0468	EA		1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	12.11	4.15
26 05 33 13-0469	EA		1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	14.51	4.75
26 05 33 13-0470	EA		2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	17.09	5.34
26 05 33 13-0471			Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0060)		
26 05 33 13-0472	EA		1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	198.42	14.40
			For Work In Restricted Working Space, Add	10.79	
			For Elevated Installation >10' To 15', Add	3.60	
			For Elevated Installation >15' To 20', Add	7.20	
			For Elevated Installation >20' To 25', Add	9.00	
			For Elevated Installation >25' To 30', Add	12.59	
			For Elevated Installation >30' To 35', Add	14.39	
			For Elevated Installation >35' To 40', Add	17.99	
			For Elevated Installation >40', Add	19.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.79	
26 05 33 13-0473	EA		3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	201.90	15.78
			For Work In Restricted Working Space, Add	11.84	
			For Elevated Installation >10' To 15', Add	3.95	
			For Elevated Installation >15' To 20', Add	7.89	
			For Elevated Installation >20' To 25', Add	9.87	
			For Elevated Installation >25' To 30', Add	13.81	
			For Elevated Installation >30' To 35', Add	15.78	
			For Elevated Installation >35' To 40', Add	19.73	
			For Elevated Installation >40', Add	21.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.84	
26 05 33 13-0474	EA		1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	242.01	17.31
			For Work In Restricted Working Space, Add	12.96	
			For Elevated Installation >10' To 15', Add	4.32	
			For Elevated Installation >15' To 20', Add	8.64	
			For Elevated Installation >20' To 25', Add	10.80	
			For Elevated Installation >25' To 30', Add	15.12	
			For Elevated Installation >30' To 35', Add	17.28	
			For Elevated Installation >35' To 40', Add	21.60	
			For Elevated Installation >40', Add	23.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.96	
26 05 33 13-0475	EA		1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	265.69	18.98
			For Work In Restricted Working Space, Add	14.24	
			For Elevated Installation >10' To 15', Add	4.75	
			For Elevated Installation >15' To 20', Add	9.50	
			For Elevated Installation >20' To 25', Add	11.87	
			For Elevated Installation >25' To 30', Add	16.62	
			For Elevated Installation >30' To 35', Add	18.99	
			For Elevated Installation >35' To 40', Add	23.74	
			For Elevated Installation >40', Add	26.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0476	EA	1-1/2"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	303.10 16.01 5.34 10.67 13.34 18.68 21.35 26.69 29.35 16.01	21.35
26 05 33 13-0477	EA	2"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	447.26 17.80 5.93 11.87 14.83 20.77 23.73 29.67 32.63 17.80	23.72
26 05 33 13-0478	EA	2-1/2"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	515.53 23.73 7.91 15.82 19.78 27.69 31.64 39.56 43.51 23.73	31.66
26 05 33 13-0479	EA	3"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	571.85 26.08 8.69 17.39 21.74 30.43 34.78 43.47 47.82 26.08	34.75
26 05 33 13-0480	EA	3-1/2"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	664.67 28.47 9.49 18.98 23.73 33.22 37.96 47.45 52.20 28.47	37.96
26 05 33 13-0481	EA	4"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	749.24 32.02 10.67 21.35 26.69 37.36 42.70 53.37 58.71 32.02	42.69
26 05 33 13-0482	EA	5"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,003.55 35.58 11.86 23.72 29.65 41.51 47.44 59.30 65.23 35.58	47.44
26 05 33 13-0483	EA	6"	Rigid Galvanized Steel (RGS) Fire Stop Fitting..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,246.94 39.50 13.17 26.33 32.91 46.08 52.66 65.83 72.41 39.50	52.66

26 05 33 13-0484 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0060)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0485	EA		3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	19.38	9.19
			For Work In Restricted Working Space, Add	5.52	
			For Elevated Installation >10' To 15', Add	1.84	
			For Elevated Installation >15' To 20', Add	3.68	
			For Elevated Installation >20' To 25', Add	4.60	
			For Elevated Installation >25' To 30', Add	6.44	
			For Elevated Installation >30' To 35', Add	7.36	
			For Elevated Installation >35' To 40', Add	9.20	
			For Elevated Installation >40', Add	10.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0486	EA		1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	21.39	9.78
			For Work In Restricted Working Space, Add	5.87	
			For Elevated Installation >10' To 15', Add	1.96	
			For Elevated Installation >15' To 20', Add	3.91	
			For Elevated Installation >20' To 25', Add	4.89	
			For Elevated Installation >25' To 30', Add	6.85	
			For Elevated Installation >30' To 35', Add	7.83	
			For Elevated Installation >35' To 40', Add	9.79	
			For Elevated Installation >40', Add	10.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.87	
26 05 33 13-0487	EA		1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	21.98	10.09
			For Work In Restricted Working Space, Add	6.05	
			For Elevated Installation >10' To 15', Add	2.02	
			For Elevated Installation >15' To 20', Add	4.03	
			For Elevated Installation >20' To 25', Add	5.04	
			For Elevated Installation >25' To 30', Add	7.06	
			For Elevated Installation >30' To 35', Add	8.06	
			For Elevated Installation >35' To 40', Add	10.08	
			For Elevated Installation >40', Add	11.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.05	
26 05 33 13-0488	EA		1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	25.47	10.38
			For Work In Restricted Working Space, Add	6.23	
			For Elevated Installation >10' To 15', Add	2.08	
			For Elevated Installation >15' To 20', Add	4.15	
			For Elevated Installation >20' To 25', Add	5.19	
			For Elevated Installation >25' To 30', Add	7.26	
			For Elevated Installation >30' To 35', Add	8.30	
			For Elevated Installation >35' To 40', Add	10.38	
			For Elevated Installation >40', Add	11.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 05 33 13-0489	EA		1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	26.07	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0490	EA		1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	27.25	11.27
			For Work In Restricted Working Space, Add	6.76	
			For Elevated Installation >10' To 15', Add	2.25	
			For Elevated Installation >15' To 20', Add	4.51	
			For Elevated Installation >20' To 25', Add	5.63	
			For Elevated Installation >25' To 30', Add	7.89	
			For Elevated Installation >30' To 35', Add	9.01	
			For Elevated Installation >35' To 40', Add	11.27	
			For Elevated Installation >40', Add	12.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-0491	EA		1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	29.44	11.86
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0492	EA		1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	30.04	12.15
			For Work In Restricted Working Space, Add	7.30	
			For Elevated Installation >10' To 15', Add	2.43	
			For Elevated Installation >15' To 20', Add	4.86	
			For Elevated Installation >20' To 25', Add	6.08	
			For Elevated Installation >25' To 30', Add	8.51	
			For Elevated Installation >30' To 35', Add	9.73	
			For Elevated Installation >35' To 40', Add	12.16	
			For Elevated Installation >40', Add	13.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0493	EA	1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.22 7.65 2.55 5.10 6.38 8.93 10.20 12.75 14.03 7.65	12.75
26 05 33	13-0494	EA	1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.40 8.00 2.67 5.34 6.67 9.34 10.67 13.34 14.67 8.00	13.35
26 05 33	13-0495	EA	2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.24 8.00 2.67 5.34 6.67 9.34 10.67 13.34 14.67 8.00	13.35
26 05 33	13-0496	EA	2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.84 8.18 2.73 5.46 6.82 9.55 10.91 13.64 15.00 8.18	13.64
26 05 33	13-0497	EA	2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.02 8.54 2.85 5.69 7.12 9.96 11.38 14.23 15.65 8.54	14.23
26 05 33	13-0498	EA	2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.21 8.90 2.97 5.93 7.41 10.38 11.86 14.83 16.31 8.90	14.82
26 05 33	13-0499	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.18 9.79 3.26 6.52 8.16 11.42 13.05 16.31 17.94 9.79	16.31
26 05 33	13-0500	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.16 11.57 3.86 7.71 9.64 13.49 15.42 19.28 21.20 11.57	19.27

26 05 33 13-0501 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0060)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0502	EA 1/2" Rigid Galvanized Steel (RGS) Locknuts.....	2.46		1.18
	For Work In Restricted Working Space, Add	0.71		
	For Elevated Installation >10' To 15', Add	0.24		
	For Elevated Installation >15' To 20', Add	0.47		
	For Elevated Installation >20' To 25', Add	0.59		
	For Elevated Installation >25' To 30', Add	0.83		
	For Elevated Installation >30' To 35', Add	0.95		
	For Elevated Installation >35' To 40', Add	1.19		
	For Elevated Installation >40', Add	1.30		
26 05 33 13-0503	EA 3/4" Rigid Galvanized Steel (RGS) Locknuts.....	3.69		1.78
	For Work In Restricted Working Space, Add	1.07		
	For Elevated Installation >10' To 15', Add	0.36		
	For Elevated Installation >15' To 20', Add	0.71		
	For Elevated Installation >20' To 25', Add	0.89		
	For Elevated Installation >25' To 30', Add	1.25		
	For Elevated Installation >30' To 35', Add	1.42		
	For Elevated Installation >35' To 40', Add	1.78		
	For Elevated Installation >40', Add	1.96		
26 05 33 13-0504	EA 1" Rigid Galvanized Steel (RGS) Locknuts.....	6.14		2.96
	For Work In Restricted Working Space, Add	1.78		
	For Elevated Installation >10' To 15', Add	0.59		
	For Elevated Installation >15' To 20', Add	1.19		
	For Elevated Installation >20' To 25', Add	1.48		
	For Elevated Installation >25' To 30', Add	2.08		
	For Elevated Installation >30' To 35', Add	2.37		
	For Elevated Installation >35' To 40', Add	2.97		
	For Elevated Installation >40', Add	3.26		
26 05 33 13-0505	EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts.....	8.65		4.15
	For Work In Restricted Working Space, Add	2.49		
	For Elevated Installation >10' To 15', Add	0.83		
	For Elevated Installation >15' To 20', Add	1.66		
	For Elevated Installation >20' To 25', Add	2.08		
	For Elevated Installation >25' To 30', Add	2.91		
	For Elevated Installation >30' To 35', Add	3.32		
	For Elevated Installation >35' To 40', Add	4.15		
	For Elevated Installation >40', Add	4.57		
26 05 33 13-0506	EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	9.93		4.75
	For Work In Restricted Working Space, Add	2.84		
	For Elevated Installation >10' To 15', Add	0.95		
	For Elevated Installation >15' To 20', Add	1.90		
	For Elevated Installation >20' To 25', Add	2.37		
	For Elevated Installation >25' To 30', Add	3.32		
	For Elevated Installation >30' To 35', Add	3.79		
	For Elevated Installation >35' To 40', Add	4.74		
	For Elevated Installation >40', Add	5.21		
26 05 33 13-0507	EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	11.24		5.34
	For Work In Restricted Working Space, Add	3.20		
	For Elevated Installation >10' To 15', Add	1.07		
	For Elevated Installation >15' To 20', Add	2.14		
	For Elevated Installation >20' To 25', Add	2.67		
	For Elevated Installation >25' To 30', Add	3.74		
	For Elevated Installation >30' To 35', Add	4.27		
	For Elevated Installation >35' To 40', Add	5.34		
	For Elevated Installation >40', Add	5.87		
26 05 33 13-0508	EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	15.72		7.12
	For Work In Restricted Working Space, Add	4.27		
	For Elevated Installation >10' To 15', Add	1.42		
	For Elevated Installation >15' To 20', Add	2.85		
	For Elevated Installation >20' To 25', Add	3.56		
	For Elevated Installation >25' To 30', Add	4.98		
	For Elevated Installation >30' To 35', Add	5.69		
	For Elevated Installation >35' To 40', Add	7.12		
	For Elevated Installation >40', Add	7.83		
26 05 33 13-0509	EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	19.43		8.89
	For Work In Restricted Working Space, Add	5.34		
	For Elevated Installation >10' To 15', Add	1.78		
	For Elevated Installation >15' To 20', Add	3.56		
	For Elevated Installation >20' To 25', Add	4.45		
	For Elevated Installation >25' To 30', Add	6.23		
	For Elevated Installation >30' To 35', Add	7.12		
	For Elevated Installation >35' To 40', Add	8.90		
	For Elevated Installation >40', Add	9.78		
26 05 33 13-0510	EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	22.89		10.09
	For Work In Restricted Working Space, Add	6.05		
	For Elevated Installation >10' To 15', Add	2.02		
	For Elevated Installation >15' To 20', Add	4.03		
	For Elevated Installation >20' To 25', Add	5.04		
	For Elevated Installation >25' To 30', Add	7.06		
	For Elevated Installation >30' To 35', Add	8.06		
	For Elevated Installation >35' To 40', Add	10.08		
	For Elevated Installation >40', Add	11.09		



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0511	EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	25.67		11.27
	For Work In Restricted Working Space, Add	6.76		
	For Elevated Installation >10' To 15', Add	2.25		
	For Elevated Installation >15' To 20', Add	4.51		
	For Elevated Installation >20' To 25', Add	5.63		
	For Elevated Installation >25' To 30', Add	7.89		
	For Elevated Installation >30' To 35', Add	9.01		
	For Elevated Installation >35' To 40', Add	11.27		
	For Elevated Installation >40', Add	12.39		
26 05 33 13-0512	Rigid Galvanized Steel (RGS) Grounding Locknuts (26 05 33 13-0060)			
26 05 33 13-0513	EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	3.73		1.18
	For Work In Restricted Working Space, Add	0.71		
	For Elevated Installation >10' To 15', Add	0.24		
	For Elevated Installation >15' To 20', Add	0.47		
	For Elevated Installation >20' To 25', Add	0.59		
	For Elevated Installation >25' To 30', Add	0.83		
	For Elevated Installation >30' To 35', Add	0.95		
	For Elevated Installation >35' To 40', Add	1.19		
	For Elevated Installation >40', Add	1.30		
26 05 33 13-0514	EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	5.19		1.78
	For Work In Restricted Working Space, Add	1.07		
	For Elevated Installation >10' To 15', Add	0.36		
	For Elevated Installation >15' To 20', Add	0.71		
	For Elevated Installation >20' To 25', Add	0.89		
	For Elevated Installation >25' To 30', Add	1.25		
	For Elevated Installation >30' To 35', Add	1.42		
	For Elevated Installation >35' To 40', Add	1.78		
	For Elevated Installation >40', Add	1.96		
26 05 33 13-0515	EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	8.27		2.96
	For Work In Restricted Working Space, Add	1.78		
	For Elevated Installation >10' To 15', Add	0.59		
	For Elevated Installation >15' To 20', Add	1.19		
	For Elevated Installation >20' To 25', Add	1.48		
	For Elevated Installation >25' To 30', Add	2.08		
	For Elevated Installation >30' To 35', Add	2.37		
	For Elevated Installation >35' To 40', Add	2.97		
	For Elevated Installation >40', Add	3.26		
26 05 33 13-0516	EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	11.55		4.15
	For Work In Restricted Working Space, Add	2.49		
	For Elevated Installation >10' To 15', Add	0.83		
	For Elevated Installation >15' To 20', Add	1.66		
	For Elevated Installation >20' To 25', Add	2.08		
	For Elevated Installation >25' To 30', Add	2.91		
	For Elevated Installation >30' To 35', Add	3.32		
	For Elevated Installation >35' To 40', Add	4.15		
	For Elevated Installation >40', Add	4.57		
26 05 33 13-0517	EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	13.04		4.75
	For Work In Restricted Working Space, Add	2.84		
	For Elevated Installation >10' To 15', Add	0.95		
	For Elevated Installation >15' To 20', Add	1.90		
	For Elevated Installation >20' To 25', Add	2.37		
	For Elevated Installation >25' To 30', Add	3.32		
	For Elevated Installation >30' To 35', Add	3.79		
	For Elevated Installation >35' To 40', Add	4.74		
	For Elevated Installation >40', Add	5.21		
26 05 33 13-0518	EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	15.33		5.34
	For Work In Restricted Working Space, Add	3.20		
	For Elevated Installation >10' To 15', Add	1.07		
	For Elevated Installation >15' To 20', Add	2.14		
	For Elevated Installation >20' To 25', Add	2.67		
	For Elevated Installation >25' To 30', Add	3.74		
	For Elevated Installation >30' To 35', Add	4.27		
	For Elevated Installation >35' To 40', Add	5.34		
	For Elevated Installation >40', Add	5.87		
26 05 33 13-0519	EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	22.86		7.12
	For Work In Restricted Working Space, Add	4.27		
	For Elevated Installation >10' To 15', Add	1.42		
	For Elevated Installation >15' To 20', Add	2.85		
	For Elevated Installation >20' To 25', Add	3.56		
	For Elevated Installation >25' To 30', Add	4.98		
	For Elevated Installation >30' To 35', Add	5.69		
	For Elevated Installation >35' To 40', Add	7.12		
	For Elevated Installation >40', Add	7.83		
26 05 33 13-0520	EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	28.75		8.89
	For Work In Restricted Working Space, Add	5.34		
	For Elevated Installation >10' To 15', Add	1.78		
	For Elevated Installation >15' To 20', Add	3.56		
	For Elevated Installation >20' To 25', Add	4.45		
	For Elevated Installation >25' To 30', Add	6.23		
	For Elevated Installation >30' To 35', Add	7.12		
	For Elevated Installation >35' To 40', Add	8.90		
	For Elevated Installation >40', Add	9.78		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0521	EA	3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	37.95	10.09
		For Work In Restricted Working Space, Add	6.05	
		For Elevated Installation >10' To 15', Add	2.02	
		For Elevated Installation >15' To 20', Add	4.03	
		For Elevated Installation >20' To 25', Add	5.04	
		For Elevated Installation >25' To 30', Add	7.06	
		For Elevated Installation >30' To 35', Add	8.06	
		For Elevated Installation >35' To 40', Add	10.08	
		For Elevated Installation >40', Add	11.09	
26 05 33 13-0522	EA	4" Rigid Galvanized Steel (RGS) Grounding Locknuts	45.48	11.27
		For Work In Restricted Working Space, Add	6.76	
		For Elevated Installation >10' To 15', Add	2.25	
		For Elevated Installation >15' To 20', Add	4.51	
		For Elevated Installation >20' To 25', Add	5.63	
		For Elevated Installation >25' To 30', Add	7.89	
		For Elevated Installation >30' To 35', Add	9.01	
		For Elevated Installation >35' To 40', Add	11.27	
		For Elevated Installation >40', Add	12.39	
26 05 33 13-0523 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0060)				
26 05 33 13-0524	EA	1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	10.52	3.56
		For Work In Restricted Working Space, Add	2.14	
		For Elevated Installation >10' To 15', Add	0.71	
		For Elevated Installation >15' To 20', Add	1.42	
		For Elevated Installation >20' To 25', Add	1.78	
		For Elevated Installation >25' To 30', Add	2.49	
		For Elevated Installation >30' To 35', Add	2.85	
		For Elevated Installation >35' To 40', Add	3.56	
		For Elevated Installation >40', Add	3.92	
26 05 33 13-0525	EA	3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	13.18	4.75
		For Work In Restricted Working Space, Add	2.84	
		For Elevated Installation >10' To 15', Add	0.95	
		For Elevated Installation >15' To 20', Add	1.90	
		For Elevated Installation >20' To 25', Add	2.37	
		For Elevated Installation >25' To 30', Add	3.32	
		For Elevated Installation >30' To 35', Add	3.79	
		For Elevated Installation >35' To 40', Add	4.74	
		For Elevated Installation >40', Add	5.21	
26 05 33 13-0526	EA	1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	16.84	5.93
		For Work In Restricted Working Space, Add	3.56	
		For Elevated Installation >10' To 15', Add	1.19	
		For Elevated Installation >15' To 20', Add	2.37	
		For Elevated Installation >20' To 25', Add	2.97	
		For Elevated Installation >25' To 30', Add	4.15	
		For Elevated Installation >30' To 35', Add	4.74	
		For Elevated Installation >35' To 40', Add	5.93	
		For Elevated Installation >40', Add	6.52	
26 05 33 13-0527	EA	1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	24.54	9.48
		For Work In Restricted Working Space, Add	5.69	
		For Elevated Installation >10' To 15', Add	1.90	
		For Elevated Installation >15' To 20', Add	3.80	
		For Elevated Installation >20' To 25', Add	4.75	
		For Elevated Installation >25' To 30', Add	6.64	
		For Elevated Installation >30' To 35', Add	7.59	
		For Elevated Installation >35' To 40', Add	9.49	
		For Elevated Installation >40', Add	10.44	
26 05 33 13-0528	EA	1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	27.64	10.68
		For Work In Restricted Working Space, Add	6.41	
		For Elevated Installation >10' To 15', Add	2.14	
		For Elevated Installation >15' To 20', Add	4.27	
		For Elevated Installation >20' To 25', Add	5.34	
		For Elevated Installation >25' To 30', Add	7.47	
		For Elevated Installation >30' To 35', Add	8.54	
		For Elevated Installation >35' To 40', Add	10.68	
		For Elevated Installation >40', Add	11.74	
26 05 33 13-0529	EA	2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	31.43	11.86
		For Work In Restricted Working Space, Add	7.12	
		For Elevated Installation >10' To 15', Add	2.37	
		For Elevated Installation >15' To 20', Add	4.74	
		For Elevated Installation >20' To 25', Add	5.93	
		For Elevated Installation >25' To 30', Add	8.30	
		For Elevated Installation >30' To 35', Add	9.49	
		For Elevated Installation >35' To 40', Add	11.86	
		For Elevated Installation >40', Add	13.05	
26 05 33 13-0530	EA	2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	43.36	14.23
		For Work In Restricted Working Space, Add	8.54	
		For Elevated Installation >10' To 15', Add	2.85	
		For Elevated Installation >15' To 20', Add	5.69	
		For Elevated Installation >20' To 25', Add	7.12	
		For Elevated Installation >25' To 30', Add	9.96	
		For Elevated Installation >30' To 35', Add	11.38	
		For Elevated Installation >35' To 40', Add	14.23	
		For Elevated Installation >40', Add	15.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0531	EA		3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	52.65	17.79
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
26 05 33 13-0532	EA		3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	65.07	23.72
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
26 05 33 13-0533	EA		4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	79.23	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
26 05 33 13-0534			Rigid Galvanized Steel (RGS) Threadless Compression Connectors (26 05 33 13-0060)		
26 05 33 13-0535	EA		1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	25.14	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
26 05 33 13-0536	EA		3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	29.83	11.86
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
26 05 33 13-0537	EA		1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	39.19	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
26 05 33 13-0538	EA		1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	53.54	17.79
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
26 05 33 13-0539	EA		1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	72.32	23.72
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
26 05 33 13-0540	EA		2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	107.03	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0541	EA	2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	181.26	35.58
		For Work In Restricted Working Space, Add	21.35	
		For Elevated Installation >10' To 15', Add	7.12	
		For Elevated Installation >15' To 20', Add	14.23	
		For Elevated Installation >20' To 25', Add	17.79	
		For Elevated Installation >25' To 30', Add	24.91	
		For Elevated Installation >30' To 35', Add	28.46	
		For Elevated Installation >35' To 40', Add	35.58	
		For Elevated Installation >40', Add	39.14	
26 05 33 13-0542	EA	3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	229.00	41.51
		For Work In Restricted Working Space, Add	24.91	
		For Elevated Installation >10' To 15', Add	8.30	
		For Elevated Installation >15' To 20', Add	16.61	
		For Elevated Installation >20' To 25', Add	20.76	
		For Elevated Installation >25' To 30', Add	29.06	
		For Elevated Installation >30' To 35', Add	33.21	
		For Elevated Installation >35' To 40', Add	41.52	
		For Elevated Installation >40', Add	45.67	
26 05 33 13-0543	EA	3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	291.57	50.41
		For Work In Restricted Working Space, Add	30.24	
		For Elevated Installation >10' To 15', Add	10.08	
		For Elevated Installation >15' To 20', Add	20.16	
		For Elevated Installation >20' To 25', Add	25.20	
		For Elevated Installation >25' To 30', Add	35.28	
		For Elevated Installation >30' To 35', Add	40.32	
		For Elevated Installation >35' To 40', Add	50.41	
		For Elevated Installation >40', Add	55.45	
26 05 33 13-0544	EA	4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors	352.13	59.30
		For Work In Restricted Working Space, Add	35.58	
		For Elevated Installation >10' To 15', Add	11.86	
		For Elevated Installation >15' To 20', Add	23.72	
		For Elevated Installation >20' To 25', Add	29.65	
		For Elevated Installation >25' To 30', Add	41.51	
		For Elevated Installation >30' To 35', Add	47.44	
		For Elevated Installation >35' To 40', Add	59.30	
		For Elevated Installation >40', Add	65.23	
26 05 33 13-0545 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0060)				
26 05 33 13-0546	EA	1/2" Rigid Galvanized Steel (RGS) Compression Coupling	35.77	14.82
		For Work In Restricted Working Space, Add	8.90	
		For Elevated Installation >10' To 15', Add	2.97	
		For Elevated Installation >15' To 20', Add	5.93	
		For Elevated Installation >20' To 25', Add	7.41	
		For Elevated Installation >25' To 30', Add	10.38	
		For Elevated Installation >30' To 35', Add	11.86	
		For Elevated Installation >35' To 40', Add	14.83	
		For Elevated Installation >40', Add	16.31	
26 05 33 13-0547	EA	3/4" Rigid Galvanized Steel (RGS) Compression Coupling	45.40	17.79
		For Work In Restricted Working Space, Add	10.67	
		For Elevated Installation >10' To 15', Add	3.56	
		For Elevated Installation >15' To 20', Add	7.12	
		For Elevated Installation >20' To 25', Add	8.90	
		For Elevated Installation >25' To 30', Add	12.45	
		For Elevated Installation >30' To 35', Add	14.23	
		For Elevated Installation >35' To 40', Add	17.79	
		For Elevated Installation >40', Add	19.57	
26 05 33 13-0548	EA	1" Rigid Galvanized Steel (RGS) Compression Coupling	64.57	23.72
		For Work In Restricted Working Space, Add	14.23	
		For Elevated Installation >10' To 15', Add	4.74	
		For Elevated Installation >15' To 20', Add	9.49	
		For Elevated Installation >20' To 25', Add	11.86	
		For Elevated Installation >25' To 30', Add	16.60	
		For Elevated Installation >30' To 35', Add	18.98	
		For Elevated Installation >35' To 40', Add	23.72	
		For Elevated Installation >40', Add	26.09	
26 05 33 13-0549	EA	1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling	84.65	29.65
		For Work In Restricted Working Space, Add	17.79	
		For Elevated Installation >10' To 15', Add	5.93	
		For Elevated Installation >15' To 20', Add	11.86	
		For Elevated Installation >20' To 25', Add	14.83	
		For Elevated Installation >25' To 30', Add	20.76	
		For Elevated Installation >30' To 35', Add	23.72	
		For Elevated Installation >35' To 40', Add	29.65	
		For Elevated Installation >40', Add	32.62	
26 05 33 13-0550	EA	1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	104.16	35.58
		For Work In Restricted Working Space, Add	21.35	
		For Elevated Installation >10' To 15', Add	7.12	
		For Elevated Installation >15' To 20', Add	14.23	
		For Elevated Installation >20' To 25', Add	17.79	
		For Elevated Installation >25' To 30', Add	24.91	
		For Elevated Installation >30' To 35', Add	28.46	
		For Elevated Installation >35' To 40', Add	35.58	
		For Elevated Installation >40', Add	39.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0551	EA		2" Rigid Galvanized Steel (RGS) Compression Coupling.....	155.21	41.51
			For Work In Restricted Working Space, Add	24.91	
			For Elevated Installation >10' To 15', Add	8.30	
			For Elevated Installation >15' To 20', Add	16.61	
			For Elevated Installation >20' To 25', Add	20.76	
			For Elevated Installation >25' To 30', Add	29.06	
			For Elevated Installation >30' To 35', Add	33.21	
			For Elevated Installation >35' To 40', Add	41.52	
			For Elevated Installation >40', Add	45.67	
26 05 33 13-0552	EA		2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	246.92	47.44
			For Work In Restricted Working Space, Add	28.46	
			For Elevated Installation >10' To 15', Add	9.49	
			For Elevated Installation >15' To 20', Add	18.98	
			For Elevated Installation >20' To 25', Add	23.72	
			For Elevated Installation >25' To 30', Add	33.21	
			For Elevated Installation >30' To 35', Add	37.95	
			For Elevated Installation >35' To 40', Add	47.44	
			For Elevated Installation >40', Add	52.18	
26 05 33 13-0553	EA		3" Rigid Galvanized Steel (RGS) Compression Coupling.....	283.27	40.92
			For Work In Restricted Working Space, Add	24.55	
			For Elevated Installation >10' To 15', Add	8.18	
			For Elevated Installation >15' To 20', Add	16.37	
			For Elevated Installation >20' To 25', Add	20.46	
			For Elevated Installation >25' To 30', Add	28.64	
			For Elevated Installation >30' To 35', Add	32.73	
			For Elevated Installation >35' To 40', Add	40.92	
			For Elevated Installation >40', Add	45.01	
26 05 33 13-0554	EA		3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling.....	389.71	62.26
			For Work In Restricted Working Space, Add	37.36	
			For Elevated Installation >10' To 15', Add	12.45	
			For Elevated Installation >15' To 20', Add	24.91	
			For Elevated Installation >20' To 25', Add	31.13	
			For Elevated Installation >25' To 30', Add	43.59	
			For Elevated Installation >30' To 35', Add	49.81	
			For Elevated Installation >35' To 40', Add	62.27	
			For Elevated Installation >40', Add	68.49	
26 05 33 13-0555	EA		4" Rigid Galvanized Steel (RGS) Compression Coupling.....	481.64	71.16
			For Work In Restricted Working Space, Add	42.70	
			For Elevated Installation >10' To 15', Add	14.23	
			For Elevated Installation >15' To 20', Add	28.47	
			For Elevated Installation >20' To 25', Add	35.58	
			For Elevated Installation >25' To 30', Add	49.82	
			For Elevated Installation >30' To 35', Add	56.93	
			For Elevated Installation >35' To 40', Add	71.17	
			For Elevated Installation >40', Add	78.28	
26 05 33 13-0556			Zinc Plated Steel Snap-in Knock Out Seal (26 05 33 13-0060)		
26 05 33 13-0557	EA		1/2" Zinc Plated Steel Snap-in Knock Out Seal.....	6.22	2.96
			For Work In Restricted Working Space, Add	1.78	
			For Elevated Installation >10' To 15', Add	0.59	
			For Elevated Installation >15' To 20', Add	1.19	
			For Elevated Installation >20' To 25', Add	1.48	
			For Elevated Installation >25' To 30', Add	2.08	
			For Elevated Installation >30' To 35', Add	2.37	
			For Elevated Installation >35' To 40', Add	2.97	
			For Elevated Installation >40', Add	3.26	
26 05 33 13-0558	EA		3/4" Zinc Plated Steel Snap-in Knock Out Seal.....	7.50	3.56
			For Work In Restricted Working Space, Add	2.14	
			For Elevated Installation >10' To 15', Add	0.71	
			For Elevated Installation >15' To 20', Add	1.42	
			For Elevated Installation >20' To 25', Add	1.78	
			For Elevated Installation >25' To 30', Add	2.49	
			For Elevated Installation >30' To 35', Add	2.85	
			For Elevated Installation >35' To 40', Add	3.56	
			For Elevated Installation >40', Add	3.92	
26 05 33 13-0559	EA		1" Zinc Plated Steel Snap-in Knock Out Seal.....	8.90	4.15
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
26 05 33 13-0560	EA		1-1/4" Zinc Plated Steel Snap-in Knock Out Seal.....	11.47	5.34
			For Work In Restricted Working Space, Add	3.20	
			For Elevated Installation >10' To 15', Add	1.07	
			For Elevated Installation >15' To 20', Add	2.14	
			For Elevated Installation >20' To 25', Add	2.67	
			For Elevated Installation >25' To 30', Add	3.74	
			For Elevated Installation >30' To 35', Add	4.27	
			For Elevated Installation >35' To 40', Add	5.34	
			For Elevated Installation >40', Add	5.87	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0561	EA		1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	12.96	5.93
			For Work In Restricted Working Space, Add	3.56	
			For Elevated Installation >10' To 15', Add	1.19	
			For Elevated Installation >15' To 20', Add	2.37	
			For Elevated Installation >20' To 25', Add	2.97	
			For Elevated Installation >25' To 30', Add	4.15	
			For Elevated Installation >30' To 35', Add	4.74	
			For Elevated Installation >35' To 40', Add	5.93	
			For Elevated Installation >40', Add	6.52	
26 05 33 13-0562	EA		2" Zinc Plated Steel Snap-in Knock Out Seal	15.77	7.12
			For Work In Restricted Working Space, Add	4.27	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
26 05 33 13-0563 Zinc Plated Steel 3-Piece Knock Out Seal (26 05 33 13-0060)					
26 05 33 13-0564	EA		1/2" Zinc Plated Steel 3-Piece Knock Out Seal.....	7.66	2.96
			For Work In Restricted Working Space, Add	1.78	
			For Elevated Installation >10' To 15', Add	0.59	
			For Elevated Installation >15' To 20', Add	1.19	
			For Elevated Installation >20' To 25', Add	1.48	
			For Elevated Installation >25' To 30', Add	2.08	
			For Elevated Installation >30' To 35', Add	2.37	
			For Elevated Installation >35' To 40', Add	2.97	
			For Elevated Installation >40', Add	3.26	
26 05 33 13-0565	EA		3/4" Zinc Plated Steel 3-Piece Knock Out Seal.....	9.13	3.56
			For Work In Restricted Working Space, Add	2.14	
			For Elevated Installation >10' To 15', Add	0.71	
			For Elevated Installation >15' To 20', Add	1.42	
			For Elevated Installation >20' To 25', Add	1.78	
			For Elevated Installation >25' To 30', Add	2.49	
			For Elevated Installation >30' To 35', Add	2.85	
			For Elevated Installation >35' To 40', Add	3.56	
			For Elevated Installation >40', Add	3.92	
26 05 33 13-0566	EA		1" Zinc Plated Steel 3-Piece Knock Out Seal	11.08	4.15
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
26 05 33 13-0567	EA		1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	14.25	5.34
			For Work In Restricted Working Space, Add	3.20	
			For Elevated Installation >10' To 15', Add	1.07	
			For Elevated Installation >15' To 20', Add	2.14	
			For Elevated Installation >20' To 25', Add	2.67	
			For Elevated Installation >25' To 30', Add	3.74	
			For Elevated Installation >30' To 35', Add	4.27	
			For Elevated Installation >35' To 40', Add	5.34	
			For Elevated Installation >40', Add	5.87	
26 05 33 13-0568	EA		1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	17.56	5.93
			For Work In Restricted Working Space, Add	3.56	
			For Elevated Installation >10' To 15', Add	1.19	
			For Elevated Installation >15' To 20', Add	2.37	
			For Elevated Installation >20' To 25', Add	2.97	
			For Elevated Installation >25' To 30', Add	4.15	
			For Elevated Installation >30' To 35', Add	4.74	
			For Elevated Installation >35' To 40', Add	5.93	
			For Elevated Installation >40', Add	6.52	
26 05 33 13-0569	EA		2" Zinc Plated Steel 3-Piece Knock Out Seal	21.24	7.12
			For Work In Restricted Working Space, Add	4.27	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
26 05 33 13-0570	EA		2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	26.05	8.89
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0571	EA		3" Zinc Plated Steel 3-Piece Knock Out Seal	30.47	10.09
			For Work In Restricted Working Space, Add	6.05	
			For Elevated Installation >10' To 15', Add	2.02	
			For Elevated Installation >15' To 20', Add	4.03	
			For Elevated Installation >20' To 25', Add	5.04	
			For Elevated Installation >25' To 30', Add	7.06	
			For Elevated Installation >30' To 35', Add	8.06	
			For Elevated Installation >35' To 40', Add	10.08	
			For Elevated Installation >40', Add	11.09	
26 05 33 13-0572	EA		3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	37.05	11.27
			For Work In Restricted Working Space, Add	6.76	
			For Elevated Installation >10' To 15', Add	2.25	
			For Elevated Installation >15' To 20', Add	4.51	
			For Elevated Installation >20' To 25', Add	5.63	
			For Elevated Installation >25' To 30', Add	7.89	
			For Elevated Installation >30' To 35', Add	9.01	
			For Elevated Installation >35' To 40', Add	11.27	
			For Elevated Installation >40', Add	12.39	
26 05 33 13-0573	EA		4" Zinc Plated Steel 3-Piece Knock Out Seal	43.54	12.45
			For Work In Restricted Working Space, Add	7.47	
			For Elevated Installation >10' To 15', Add	2.49	
			For Elevated Installation >15' To 20', Add	4.98	
			For Elevated Installation >20' To 25', Add	6.23	
			For Elevated Installation >25' To 30', Add	8.72	
			For Elevated Installation >30' To 35', Add	9.96	
			For Elevated Installation >35' To 40', Add	12.46	
			For Elevated Installation >40', Add	13.70	
26 05 33 13-0574 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0060)					
26 05 33 13-0575	EA		1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	14.67	7.12
			For Work In Restricted Working Space, Add	4.27	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0576	EA		3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	17.35	8.30
			For Work In Restricted Working Space, Add	4.98	
			For Elevated Installation >10' To 15', Add	1.66	
			For Elevated Installation >15' To 20', Add	3.32	
			For Elevated Installation >20' To 25', Add	4.15	
			For Elevated Installation >25' To 30', Add	5.81	
			For Elevated Installation >30' To 35', Add	6.64	
			For Elevated Installation >35' To 40', Add	8.31	
			For Elevated Installation >40', Add	9.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-0577	EA		1" Rigid Galvanized Steel (RGS) Chase Nipple.....	21.77	10.09
			For Work In Restricted Working Space, Add	6.05	
			For Elevated Installation >10' To 15', Add	2.02	
			For Elevated Installation >15' To 20', Add	4.03	
			For Elevated Installation >20' To 25', Add	5.04	
			For Elevated Installation >25' To 30', Add	7.06	
			For Elevated Installation >30' To 35', Add	8.06	
			For Elevated Installation >35' To 40', Add	10.08	
			For Elevated Installation >40', Add	11.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.05	
26 05 33 13-0578	EA		1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple	26.52	11.86
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 05 33 13-0579	EA		1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	33.25	14.82
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0580	EA		2" Rigid Galvanized Steel (RGS) Chase Nipple.....	41.43	17.79
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.67	
26 05 33 13-0581	EA		2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	52.63	20.75
			For Work In Restricted Working Space, Add	12.45	
			For Elevated Installation >10' To 15', Add	4.15	
			For Elevated Installation >15' To 20', Add	8.30	
			For Elevated Installation >20' To 25', Add	10.38	
			For Elevated Installation >25' To 30', Add	14.53	
			For Elevated Installation >30' To 35', Add	16.60	
			For Elevated Installation >35' To 40', Add	20.76	
			For Elevated Installation >40', Add	22.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0582	EA		3" Rigid Galvanized Steel (RGS) Chase Nipple.....	58.85	23.72
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0583	EA		3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	73.54	26.68
			For Work In Restricted Working Space, Add	16.01	
			For Elevated Installation >10' To 15', Add	5.34	
			For Elevated Installation >15' To 20', Add	10.67	
			For Elevated Installation >20' To 25', Add	13.34	
			For Elevated Installation >25' To 30', Add	18.68	
			For Elevated Installation >30' To 35', Add	21.35	
			For Elevated Installation >35' To 40', Add	26.69	
			For Elevated Installation >40', Add	29.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.01	
26 05 33 13-0584	EA		4" Rigid Galvanized Steel (RGS) Chase Nipple.....	101.56	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0585 Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0060)					
26 05 33 13-0586	EA		1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	29.02	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
26 05 33 13-0587	EA		3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	33.71	12.45
			For Work In Restricted Working Space, Add	7.47	
			For Elevated Installation >10' To 15', Add	2.49	
			For Elevated Installation >15' To 20', Add	4.98	
			For Elevated Installation >20' To 25', Add	6.23	
			For Elevated Installation >25' To 30', Add	8.72	
			For Elevated Installation >30' To 35', Add	9.96	
			For Elevated Installation >35' To 40', Add	12.46	
			For Elevated Installation >40', Add	13.70	
26 05 33 13-0588	EA		1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	43.07	14.23
			For Work In Restricted Working Space, Add	8.54	
			For Elevated Installation >10' To 15', Add	2.85	
			For Elevated Installation >15' To 20', Add	5.69	
			For Elevated Installation >20' To 25', Add	7.12	
			For Elevated Installation >25' To 30', Add	9.96	
			For Elevated Installation >30' To 35', Add	11.38	
			For Elevated Installation >35' To 40', Add	14.23	
			For Elevated Installation >40', Add	15.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0589	EA	1-1/4"	Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	55.25 10.67 3.56 7.12 8.90 12.45 14.23 17.79 19.57	17.79
26 05 33 13-0590	EA	1-1/2"	Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	73.92 12.81 4.27 8.54 10.67 14.94 17.08 21.35 23.48	21.35
26 05 33 13-0591	EA	2"	Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	99.25 14.95 4.98 9.96 12.46 17.44 19.93 24.91 27.40	24.91
26 05 33 13-0592	EA	2-1/2"	Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	138.53 17.08 5.69 11.39 14.23 19.93 22.77 28.47 31.31	28.46
26 05 33 13-0593	EA	3"	Rigid Galvanized Steel (RGS) Pulling Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	244.02 21.35 7.12 14.23 17.79 24.91 28.46 35.58 39.14	35.58
26 05 33 13-0594			Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0059) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0595			Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0594) Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0596	LF	1/2"	Electrical Metallic Tubing (EMT) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Factory Applied Color Coating, Add	5.99 -0.03 -0.32 -0.47 0.53 1.34 0.80 1.60 0.53 1.07 1.34 1.87 2.14 2.67 2.94 0.20	2.14
26 05 33 13-0597	LF	3/4"	Electrical Metallic Tubing (EMT) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Factory Applied Color Coating, Add	6.94 -0.05 -0.37 -0.55 0.59 1.48 0.89 1.78 0.59 1.19 1.48 2.08 2.37 2.97 3.26 0.30	2.37

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0598	LF		1" Electrical Metallic Tubing (EMT) Conduit.....	8.21	2.61
			For >250 To 500, Deduct	-0.08	
			For >500 To 1,000, Deduct	-0.45	
			For >1,000, Deduct	-0.66	
			For Installation In Metal Stud Wall, Add	0.65	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.63	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.98	
			For Work In Restricted Working Space, Add	1.96	
			For Elevated Installation >10' To 15', Add	0.65	
			For Elevated Installation >15' To 20', Add	1.30	
			For Elevated Installation >20' To 25', Add	1.63	
			For Elevated Installation >25' To 30', Add	2.28	
			For Elevated Installation >30' To 35', Add	2.61	
			For Elevated Installation >35' To 40', Add	3.26	
			For Elevated Installation >40', Add	3.59	
			For Factory Applied Color Coating, Add	0.51	
26 05 33 13-0599	LF		1-1/4" Electrical Metallic Tubing (EMT) Conduit.....	10.02	2.94
			For >250 To 500, Deduct	-0.13	
			For >500 To 1,000, Deduct	-0.57	
			For >1,000, Deduct	-0.82	
			For Installation In Metal Stud Wall, Add	0.74	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.84	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.10	
			For Work In Restricted Working Space, Add	2.21	
			For Elevated Installation >10' To 15', Add	0.74	
			For Elevated Installation >15' To 20', Add	1.47	
			For Elevated Installation >20' To 25', Add	1.84	
			For Elevated Installation >25' To 30', Add	2.58	
			For Elevated Installation >30' To 35', Add	2.94	
			For Elevated Installation >35' To 40', Add	3.68	
			For Elevated Installation >40', Add	4.05	
			For Factory Applied Color Coating, Add	0.80	
26 05 33 13-0600	LF		1-1/2" Electrical Metallic Tubing (EMT) Conduit.....	11.61	3.32
			For >250 To 500, Deduct	-0.17	
			For >500 To 1,000, Deduct	-0.66	
			For >1,000, Deduct	-0.95	
			For Installation In Metal Stud Wall, Add	0.83	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.08	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.25	
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
			For Factory Applied Color Coating, Add	0.99	
26 05 33 13-0601	LF		2" Electrical Metallic Tubing (EMT) Conduit.....	13.41	3.79
			For >250 To 500, Deduct	-0.20	
			For >500 To 1,000, Deduct	-0.77	
			For >1,000, Deduct	-1.10	
			For Installation In Metal Stud Wall, Add	0.95	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.37	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.42	
			For Work In Restricted Working Space, Add	2.84	
			For Elevated Installation >10' To 15', Add	0.95	
			For Elevated Installation >15' To 20', Add	1.90	
			For Elevated Installation >20' To 25', Add	2.37	
			For Elevated Installation >25' To 30', Add	3.32	
			For Elevated Installation >30' To 35', Add	3.79	
			For Elevated Installation >35' To 40', Add	4.74	
			For Elevated Installation >40', Add	5.21	
			For Factory Applied Color Coating, Add	1.18	
26 05 33 13-0602	LF		2-1/2" Electrical Metallic Tubing (EMT) Conduit.....	17.09	4.51
			For >250 To 500, Deduct	-0.29	
			For >500 To 1,000, Deduct	-1.00	
			For >1,000, Deduct	-1.43	
			For Installation In Metal Stud Wall, Add	1.13	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.82	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.69	
			For Work In Restricted Working Space, Add	3.38	
			For Elevated Installation >10' To 15', Add	1.13	
			For Elevated Installation >15' To 20', Add	2.25	
			For Elevated Installation >20' To 25', Add	2.82	
			For Elevated Installation >25' To 30', Add	3.94	
			For Elevated Installation >30' To 35', Add	4.51	
			For Elevated Installation >35' To 40', Add	5.64	
			For Elevated Installation >40', Add	6.20	
			For Factory Applied Color Coating, Add	1.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0603	LF		3" Electrical Metallic Tubing (EMT) Conduit.....	20.33	5.22
			For >250 To 500, Deduct	-0.36	
			For >500 To 1,000, Deduct	-1.20	
			For >1,000, Deduct	-1.71	
			For Installation In Metal Stud Wall, Add	1.31	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.26	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.96	
			For Work In Restricted Working Space, Add	3.92	
			For Elevated Installation >10' To 15', Add	1.31	
			For Elevated Installation >15' To 20', Add	2.61	
			For Elevated Installation >20' To 25', Add	3.26	
			For Elevated Installation >25' To 30', Add	4.57	
			For Elevated Installation >30' To 35', Add	5.22	
			For Elevated Installation >35' To 40', Add	6.53	
			For Elevated Installation >40', Add	7.18	
			For Factory Applied Color Coating, Add	2.18	
26 05 33 13-0604	LF		3-1/2" Electrical Metallic Tubing (EMT) Conduit	25.14	6.17
			For >250 To 500, Deduct	-0.49	
			For >500 To 1,000, Deduct	-1.50	
			For >1,000, Deduct	-2.13	
			For Installation In Metal Stud Wall, Add	1.54	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.85	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.31	
			For Work In Restricted Working Space, Add	4.62	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Factory Applied Color Coating, Add	2.92	
26 05 33 13-0605	LF		4" Electrical Metallic Tubing (EMT) Conduit.....	34.02	9.22
			For >250 To 500, Deduct	-0.55	
			For >500 To 1,000, Deduct	-1.98	
			For >1,000, Deduct	-2.83	
			For Installation In Metal Stud Wall, Add	2.31	
			For Installation In Wood Stud Wall (Includes Drilling), Add	5.76	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.46	
			For Work In Restricted Working Space, Add	6.92	
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.61	
			For Elevated Installation >20' To 25', Add	5.76	
			For Elevated Installation >25' To 30', Add	8.07	
			For Elevated Installation >30' To 35', Add	9.22	
			For Elevated Installation >35' To 40', Add	11.53	
			For Elevated Installation >40', Add	12.68	
			For Factory Applied Color Coating, Add	3.29	
26 05 33 13-0606			Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0594) See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0607	EA		1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	15.28	5.22
			For Work In Restricted Working Space, Add	3.92	
			For Elevated Installation >10' To 15', Add	1.31	
			For Elevated Installation >15' To 20', Add	2.61	
			For Elevated Installation >20' To 25', Add	3.26	
			For Elevated Installation >25' To 30', Add	4.57	
			For Elevated Installation >30' To 35', Add	5.22	
			For Elevated Installation >35' To 40', Add	6.53	
			For Elevated Installation >40', Add	7.18	
26 05 33 13-0608	EA		3/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	16.21	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
26 05 33 13-0609	EA		1" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	19.73	6.64
			For Work In Restricted Working Space, Add	4.98	
			For Elevated Installation >10' To 15', Add	1.66	
			For Elevated Installation >15' To 20', Add	3.32	
			For Elevated Installation >20' To 25', Add	4.15	
			For Elevated Installation >25' To 30', Add	5.81	
			For Elevated Installation >30' To 35', Add	6.64	
			For Elevated Installation >35' To 40', Add	8.31	
			For Elevated Installation >40', Add	9.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0610 EA 1-1/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow 21.67		7.12
For Work In Restricted Working Space, Add	5.34	
For Elevated Installation >10' To 15', Add	1.78	
For Elevated Installation >15' To 20', Add	3.56	
For Elevated Installation >20' To 25', Add	4.45	
For Elevated Installation >25' To 30', Add	6.23	
For Elevated Installation >30' To 35', Add	7.12	
For Elevated Installation >35' To 40', Add	8.90	
For Elevated Installation >40', Add	9.78	
26 05 33 13-0611 EA 1-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow 25.71		8.54
For Work In Restricted Working Space, Add	6.41	
For Elevated Installation >10' To 15', Add	2.14	
For Elevated Installation >15' To 20', Add	4.27	
For Elevated Installation >20' To 25', Add	5.34	
For Elevated Installation >25' To 30', Add	7.47	
For Elevated Installation >30' To 35', Add	8.54	
For Elevated Installation >35' To 40', Add	10.68	
For Elevated Installation >40', Add	11.74	
26 05 33 13-0612 EA 2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....33.72		10.91
For Work In Restricted Working Space, Add	8.18	
For Elevated Installation >10' To 15', Add	2.73	
For Elevated Installation >15' To 20', Add	5.46	
For Elevated Installation >20' To 25', Add	6.82	
For Elevated Installation >25' To 30', Add	9.55	
For Elevated Installation >30' To 35', Add	10.91	
For Elevated Installation >35' To 40', Add	13.64	
For Elevated Installation >40', Add	15.00	
26 05 33 13-0613 EA 2-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow 45.06		12.33
For Work In Restricted Working Space, Add	9.25	
For Elevated Installation >10' To 15', Add	3.08	
For Elevated Installation >15' To 20', Add	6.17	
For Elevated Installation >20' To 25', Add	7.71	
For Elevated Installation >25' To 30', Add	10.79	
For Elevated Installation >30' To 35', Add	12.33	
For Elevated Installation >35' To 40', Add	15.42	
For Elevated Installation >40', Add	16.96	
26 05 33 13-0614 EA 3" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....57.37		13.76
For Work In Restricted Working Space, Add	10.32	
For Elevated Installation >10' To 15', Add	3.44	
For Elevated Installation >15' To 20', Add	6.88	
For Elevated Installation >20' To 25', Add	8.60	
For Elevated Installation >25' To 30', Add	12.04	
For Elevated Installation >30' To 35', Add	13.76	
For Elevated Installation >35' To 40', Add	17.20	
For Elevated Installation >40', Add	18.91	
26 05 33 13-0615 EA 3-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow 65.15		15.18
For Work In Restricted Working Space, Add	11.39	
For Elevated Installation >10' To 15', Add	3.80	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.49	
For Elevated Installation >25' To 30', Add	13.29	
For Elevated Installation >30' To 35', Add	15.18	
For Elevated Installation >35' To 40', Add	18.98	
For Elevated Installation >40', Add	20.88	
26 05 33 13-0616 EA 4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....137.79		40.34
For Work In Restricted Working Space, Add	30.25	
For Elevated Installation >10' To 15', Add	10.08	
For Elevated Installation >15' To 20', Add	20.17	
For Elevated Installation >20' To 25', Add	25.21	
For Elevated Installation >25' To 30', Add	35.29	
For Elevated Installation >30' To 35', Add	40.34	
For Elevated Installation >35' To 40', Add	50.42	
For Elevated Installation >40', Add	55.46	
26 05 33 13-0617 Electrical Metallic Tubing (EMT) 45 Degree Elbows (26 05 33 13-0594)		
See CSI section 26 05 33 13-2508 for conduit field bending.		
26 05 33 13-0618 EA 1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....15.04		5.22
For Work In Restricted Working Space, Add	3.92	
For Elevated Installation >10' To 15', Add	1.31	
For Elevated Installation >15' To 20', Add	2.61	
For Elevated Installation >20' To 25', Add	3.26	
For Elevated Installation >25' To 30', Add	4.57	
For Elevated Installation >30' To 35', Add	5.22	
For Elevated Installation >35' To 40', Add	6.53	
For Elevated Installation >40', Add	7.18	
26 05 33 13-0619 EA 3/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....16.35		5.69
For Work In Restricted Working Space, Add	4.27	
For Elevated Installation >10' To 15', Add	1.42	
For Elevated Installation >15' To 20', Add	2.85	
For Elevated Installation >20' To 25', Add	3.56	
For Elevated Installation >25' To 30', Add	4.98	
For Elevated Installation >30' To 35', Add	5.69	
For Elevated Installation >35' To 40', Add	7.12	
For Elevated Installation >40', Add	7.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0620	EA	1"	Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	20.04	6.64
			For Work In Restricted Working Space, Add	4.98	
			For Elevated Installation >10' To 15', Add	1.66	
			For Elevated Installation >15' To 20', Add	3.32	
			For Elevated Installation >20' To 25', Add	4.15	
			For Elevated Installation >25' To 30', Add	5.81	
			For Elevated Installation >30' To 35', Add	6.64	
			For Elevated Installation >35' To 40', Add	8.31	
			For Elevated Installation >40', Add	9.14	
26 05 33 13-0621	EA	1-1/4"	Electrical Metallic Tubing (EMT) 45 Degree Elbow	22.26	7.12
			For Work In Restricted Working Space, Add	5.34	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
26 05 33 13-0622	EA	1-1/2"	Electrical Metallic Tubing (EMT) 45 Degree Elbow	26.46	8.54
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
26 05 33 13-0623	EA	2"	Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	33.48	10.91
			For Work In Restricted Working Space, Add	8.18	
			For Elevated Installation >10' To 15', Add	2.73	
			For Elevated Installation >15' To 20', Add	5.46	
			For Elevated Installation >20' To 25', Add	6.82	
			For Elevated Installation >25' To 30', Add	9.55	
			For Elevated Installation >30' To 35', Add	10.91	
			For Elevated Installation >35' To 40', Add	13.64	
			For Elevated Installation >40', Add	15.00	
26 05 33 13-0624	EA	2-1/2"	Electrical Metallic Tubing (EMT) 45 Degree Elbow	47.24	12.33
			For Work In Restricted Working Space, Add	9.25	
			For Elevated Installation >10' To 15', Add	3.08	
			For Elevated Installation >15' To 20', Add	6.17	
			For Elevated Installation >20' To 25', Add	7.71	
			For Elevated Installation >25' To 30', Add	10.79	
			For Elevated Installation >30' To 35', Add	12.33	
			For Elevated Installation >35' To 40', Add	15.42	
			For Elevated Installation >40', Add	16.96	
26 05 33 13-0625	EA	3"	Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	59.10	13.76
			For Work In Restricted Working Space, Add	10.32	
			For Elevated Installation >10' To 15', Add	3.44	
			For Elevated Installation >15' To 20', Add	6.88	
			For Elevated Installation >20' To 25', Add	8.60	
			For Elevated Installation >25' To 30', Add	12.04	
			For Elevated Installation >30' To 35', Add	13.76	
			For Elevated Installation >35' To 40', Add	17.20	
			For Elevated Installation >40', Add	18.91	
26 05 33 13-0626	EA	3-1/2"	Electrical Metallic Tubing (EMT) 45 Degree Elbow	69.84	15.18
			For Work In Restricted Working Space, Add	11.39	
			For Elevated Installation >10' To 15', Add	3.80	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.49	
			For Elevated Installation >25' To 30', Add	13.29	
			For Elevated Installation >30' To 35', Add	15.18	
			For Elevated Installation >35' To 40', Add	18.98	
			For Elevated Installation >40', Add	20.88	
26 05 33 13-0627	EA	4"	Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	134.50	40.34
			For Work In Restricted Working Space, Add	30.25	
			For Elevated Installation >10' To 15', Add	10.08	
			For Elevated Installation >15' To 20', Add	20.17	
			For Elevated Installation >20' To 25', Add	25.21	
			For Elevated Installation >25' To 30', Add	35.29	
			For Elevated Installation >30' To 35', Add	40.34	
			For Elevated Installation >35' To 40', Add	50.42	
			For Elevated Installation >40', Add	55.46	
26 05 33 13-0628			Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0594)		
26 05 33 13-0629	EA	1/2"	Electrical Metallic Tubing (EMT) Set Screw Coupling.....	6.19	2.85
			For Work In Restricted Working Space, Add	1.78	
			For Elevated Installation >10' To 15', Add	0.59	
			For Elevated Installation >15' To 20', Add	1.19	
			For Elevated Installation >20' To 25', Add	1.48	
			For Elevated Installation >25' To 30', Add	2.08	
			For Elevated Installation >30' To 35', Add	2.37	
			For Elevated Installation >35' To 40', Add	2.97	
			For Elevated Installation >40', Add	3.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0630	EA		3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.50	2.85
			For Work In Restricted Working Space, Add	2.14	
			For Elevated Installation >10' To 15', Add	0.71	
			For Elevated Installation >15' To 20', Add	1.42	
			For Elevated Installation >20' To 25', Add	1.78	
			For Elevated Installation >25' To 30', Add	2.49	
			For Elevated Installation >30' To 35', Add	2.85	
			For Elevated Installation >35' To 40', Add	3.56	
			For Elevated Installation >40', Add	3.92	
26 05 33 13-0631	EA		1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	8.88	3.32
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
26 05 33 13-0632	EA		1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling	11.93	4.27
			For Work In Restricted Working Space, Add	3.20	
			For Elevated Installation >10' To 15', Add	1.07	
			For Elevated Installation >15' To 20', Add	2.13	
			For Elevated Installation >20' To 25', Add	2.67	
			For Elevated Installation >25' To 30', Add	3.73	
			For Elevated Installation >30' To 35', Add	4.27	
			For Elevated Installation >35' To 40', Add	5.34	
			For Elevated Installation >40', Add	5.87	
26 05 33 13-0633	EA		1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	14.71	5.22
			For Work In Restricted Working Space, Add	3.92	
			For Elevated Installation >10' To 15', Add	1.31	
			For Elevated Installation >15' To 20', Add	2.61	
			For Elevated Installation >20' To 25', Add	3.26	
			For Elevated Installation >25' To 30', Add	4.57	
			For Elevated Installation >30' To 35', Add	5.22	
			For Elevated Installation >35' To 40', Add	6.53	
			For Elevated Installation >40', Add	7.18	
26 05 33 13-0634	EA		2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	19.99	7.12
			For Work In Restricted Working Space, Add	5.33	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.22	
			For Elevated Installation >30' To 35', Add	7.11	
			For Elevated Installation >35' To 40', Add	8.89	
			For Elevated Installation >40', Add	9.78	
26 05 33 13-0635	EA		2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	27.59	9.48
			For Work In Restricted Working Space, Add	7.12	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.49	
			For Elevated Installation >35' To 40', Add	11.86	
			For Elevated Installation >40', Add	13.05	
26 05 33 13-0636	EA		3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	35.66	10.91
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
26 05 33 13-0637	EA		3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	40.34	11.86
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
26 05 33 13-0638	EA		4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	116.68	33.43
			For Work In Restricted Working Space, Add	32.46	
			For Elevated Installation >10' To 15', Add	10.82	
			For Elevated Installation >15' To 20', Add	21.64	
			For Elevated Installation >20' To 25', Add	27.05	
			For Elevated Installation >25' To 30', Add	37.87	
			For Elevated Installation >30' To 35', Add	43.28	
			For Elevated Installation >35' To 40', Add	54.10	
			For Elevated Installation >40', Add	59.51	

26 05 33 13-0639 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0594)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0640	EA		1/2 Electrical Metallic Tubing (EMT) Compression Coupling.....	7.76	2.85
			For Work In Restricted Working Space, Add	2.14	
			For Elevated Installation >10' To 15', Add	0.71	
			For Elevated Installation >15' To 20', Add	1.42	
			For Elevated Installation >20' To 25', Add	1.78	
			For Elevated Installation >25' To 30', Add	2.49	
			For Elevated Installation >30' To 35', Add	2.85	
			For Elevated Installation >35' To 40', Add	3.56	
			For Elevated Installation >40', Add	3.92	
26 05 33 13-0641	EA		3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	9.00	3.32
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
26 05 33 13-0642	EA		1" Electrical Metallic Tubing (EMT) Compression Coupling.....	12.83	4.75
			For Work In Restricted Working Space, Add	3.56	
			For Elevated Installation >10' To 15', Add	1.19	
			For Elevated Installation >15' To 20', Add	2.37	
			For Elevated Installation >20' To 25', Add	2.97	
			For Elevated Installation >25' To 30', Add	4.15	
			For Elevated Installation >30' To 35', Add	4.74	
			For Elevated Installation >35' To 40', Add	5.93	
			For Elevated Installation >40', Add	6.52	
26 05 33 13-0643	EA		1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	16.26	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
26 05 33 13-0644	EA		1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	19.47	6.64
			For Work In Restricted Working Space, Add	4.98	
			For Elevated Installation >10' To 15', Add	1.66	
			For Elevated Installation >15' To 20', Add	3.32	
			For Elevated Installation >20' To 25', Add	4.15	
			For Elevated Installation >25' To 30', Add	5.81	
			For Elevated Installation >30' To 35', Add	6.64	
			For Elevated Installation >35' To 40', Add	8.31	
			For Elevated Installation >40', Add	9.14	
26 05 33 13-0645	EA		2" Electrical Metallic Tubing (EMT) Compression Coupling.....	25.85	8.54
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
26 05 33 13-0646	EA		2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	40.21	11.39
			For Work In Restricted Working Space, Add	8.54	
			For Elevated Installation >10' To 15', Add	2.85	
			For Elevated Installation >15' To 20', Add	5.69	
			For Elevated Installation >20' To 25', Add	7.12	
			For Elevated Installation >25' To 30', Add	9.96	
			For Elevated Installation >30' To 35', Add	11.38	
			For Elevated Installation >35' To 40', Add	14.23	
			For Elevated Installation >40', Add	15.65	
26 05 33 13-0647	EA		3" Electrical Metallic Tubing (EMT) Compression Coupling.....	46.56	13.29
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
26 05 33 13-0648	EA		3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	58.21	16.61
			For Work In Restricted Working Space, Add	12.45	
			For Elevated Installation >10' To 15', Add	4.15	
			For Elevated Installation >15' To 20', Add	8.30	
			For Elevated Installation >20' To 25', Add	10.38	
			For Elevated Installation >25' To 30', Add	14.53	
			For Elevated Installation >30' To 35', Add	16.60	
			For Elevated Installation >35' To 40', Add	20.76	
			For Elevated Installation >40', Add	22.83	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0649	EA	4" Electrical Metallic Tubing (EMT) Compression Coupling.....	74.67	21.35
		<i>For Work In Restricted Working Space, Add</i>	16.01	
		<i>For Elevated Installation >10' To 15', Add</i>	5.34	
		<i>For Elevated Installation >15' To 20', Add</i>	10.67	
		<i>For Elevated Installation >20' To 25', Add</i>	13.34	
		<i>For Elevated Installation >25' To 30', Add</i>	18.68	
		<i>For Elevated Installation >30' To 35', Add</i>	21.35	
		<i>For Elevated Installation >35' To 40', Add</i>	26.69	
		<i>For Elevated Installation >40', Add</i>	29.35	
26 05 33 13-0650		Electrical Metallic Tubing (EMT) Raintight Compression Couplings (26 05 33 13-0594)		
26 05 33 13-0651	EA	1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	8.67	2.85
		<i>For Work In Restricted Working Space, Add</i>	2.14	
		<i>For Elevated Installation >10' To 15', Add</i>	0.71	
		<i>For Elevated Installation >15' To 20', Add</i>	1.42	
		<i>For Elevated Installation >20' To 25', Add</i>	1.78	
		<i>For Elevated Installation >25' To 30', Add</i>	2.49	
		<i>For Elevated Installation >30' To 35', Add</i>	2.85	
		<i>For Elevated Installation >35' To 40', Add</i>	3.56	
		<i>For Elevated Installation >40', Add</i>	3.92	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.14	
26 05 33 13-0652	EA	3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	10.00	3.32
		<i>For Work In Restricted Working Space, Add</i>	2.49	
		<i>For Elevated Installation >10' To 15', Add</i>	0.83	
		<i>For Elevated Installation >15' To 20', Add</i>	1.66	
		<i>For Elevated Installation >20' To 25', Add</i>	2.08	
		<i>For Elevated Installation >25' To 30', Add</i>	2.91	
		<i>For Elevated Installation >30' To 35', Add</i>	3.32	
		<i>For Elevated Installation >35' To 40', Add</i>	4.15	
		<i>For Elevated Installation >40', Add</i>	4.57	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.49	
26 05 33 13-0653	EA	1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	14.73	4.75
		<i>For Work In Restricted Working Space, Add</i>	3.56	
		<i>For Elevated Installation >10' To 15', Add</i>	1.19	
		<i>For Elevated Installation >15' To 20', Add</i>	2.37	
		<i>For Elevated Installation >20' To 25', Add</i>	2.97	
		<i>For Elevated Installation >25' To 30', Add</i>	4.15	
		<i>For Elevated Installation >30' To 35', Add</i>	4.74	
		<i>For Elevated Installation >35' To 40', Add</i>	5.93	
		<i>For Elevated Installation >40', Add</i>	6.52	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.56	
26 05 33 13-0654	EA	1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	18.57	5.69
		<i>For Work In Restricted Working Space, Add</i>	4.27	
		<i>For Elevated Installation >10' To 15', Add</i>	1.42	
		<i>For Elevated Installation >15' To 20', Add</i>	2.85	
		<i>For Elevated Installation >20' To 25', Add</i>	3.56	
		<i>For Elevated Installation >25' To 30', Add</i>	4.98	
		<i>For Elevated Installation >30' To 35', Add</i>	5.69	
		<i>For Elevated Installation >35' To 40', Add</i>	7.12	
		<i>For Elevated Installation >40', Add</i>	7.83	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.27	
26 05 33 13-0655	EA	1-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	23.56	6.64
		<i>For Work In Restricted Working Space, Add</i>	4.98	
		<i>For Elevated Installation >10' To 15', Add</i>	1.66	
		<i>For Elevated Installation >15' To 20', Add</i>	3.32	
		<i>For Elevated Installation >20' To 25', Add</i>	4.15	
		<i>For Elevated Installation >25' To 30', Add</i>	5.81	
		<i>For Elevated Installation >30' To 35', Add</i>	6.64	
		<i>For Elevated Installation >35' To 40', Add</i>	8.30	
		<i>For Elevated Installation >40', Add</i>	9.13	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.98	
26 05 33 13-0656	EA	2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	28.71	8.07
		<i>For Work In Restricted Working Space, Add</i>	6.05	
		<i>For Elevated Installation >10' To 15', Add</i>	2.02	
		<i>For Elevated Installation >15' To 20', Add</i>	4.03	
		<i>For Elevated Installation >20' To 25', Add</i>	5.04	
		<i>For Elevated Installation >25' To 30', Add</i>	7.06	
		<i>For Elevated Installation >30' To 35', Add</i>	8.06	
		<i>For Elevated Installation >35' To 40', Add</i>	10.08	
		<i>For Elevated Installation >40', Add</i>	11.09	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.05	
26 05 33 13-0657	EA	2-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	38.66	10.91
		<i>For Work In Restricted Working Space, Add</i>	8.18	
		<i>For Elevated Installation >10' To 15', Add</i>	2.73	
		<i>For Elevated Installation >15' To 20', Add</i>	5.46	
		<i>For Elevated Installation >20' To 25', Add</i>	6.82	
		<i>For Elevated Installation >25' To 30', Add</i>	9.55	
		<i>For Elevated Installation >30' To 35', Add</i>	10.91	
		<i>For Elevated Installation >35' To 40', Add</i>	13.64	
		<i>For Elevated Installation >40', Add</i>	15.00	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.18	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0658	EA		3" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	48.67	13.29
			For Work In Restricted Working Space, Add	9.96	
			For Elevated Installation >10' To 15', Add	3.32	
			For Elevated Installation >15' To 20', Add	6.64	
			For Elevated Installation >20' To 25', Add	8.30	
			For Elevated Installation >25' To 30', Add	11.62	
			For Elevated Installation >30' To 35', Add	13.28	
			For Elevated Installation >35' To 40', Add	16.61	
			For Elevated Installation >40', Add	18.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-0659	EA		3-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	63.87	16.61
			For Work In Restricted Working Space, Add	12.45	
			For Elevated Installation >10' To 15', Add	4.15	
			For Elevated Installation >15' To 20', Add	8.30	
			For Elevated Installation >20' To 25', Add	10.38	
			For Elevated Installation >25' To 30', Add	14.53	
			For Elevated Installation >30' To 35', Add	16.60	
			For Elevated Installation >35' To 40', Add	20.76	
			For Elevated Installation >40', Add	22.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0660	EA		4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	78.37	21.35
			For Work In Restricted Working Space, Add	16.01	
			For Elevated Installation >10' To 15', Add	5.34	
			For Elevated Installation >15' To 20', Add	10.67	
			For Elevated Installation >20' To 25', Add	13.34	
			For Elevated Installation >25' To 30', Add	18.68	
			For Elevated Installation >30' To 35', Add	21.35	
			For Elevated Installation >35' To 40', Add	26.69	
			For Elevated Installation >40', Add	29.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.01	
26 05 33 13-0661 Electrical Metallic Tubing (EMT) Insulated Bushing (26 05 33 13-0594)					
26 05 33 13-0662	EA		1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	8.04	3.20
			For Work In Restricted Working Space, Add	2.39	
			For Elevated Installation >10' To 15', Add	0.80	
			For Elevated Installation >15' To 20', Add	1.59	
			For Elevated Installation >20' To 25', Add	1.99	
			For Elevated Installation >25' To 30', Add	2.78	
			For Elevated Installation >30' To 35', Add	3.18	
			For Elevated Installation >35' To 40', Add	3.98	
			For Elevated Installation >40', Add	4.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.39	
26 05 33 13-0663	EA		3/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	8.79	3.44
			For Work In Restricted Working Space, Add	2.60	
			For Elevated Installation >10' To 15', Add	0.87	
			For Elevated Installation >15' To 20', Add	1.73	
			For Elevated Installation >20' To 25', Add	2.17	
			For Elevated Installation >25' To 30', Add	3.03	
			For Elevated Installation >30' To 35', Add	3.46	
			For Elevated Installation >35' To 40', Add	4.33	
			For Elevated Installation >40', Add	4.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-0664	EA		1" Electrical Metallic Tubing (EMT) Insulated Bushing.....	10.99	4.27
			For Work In Restricted Working Space, Add	3.17	
			For Elevated Installation >10' To 15', Add	1.06	
			For Elevated Installation >15' To 20', Add	2.11	
			For Elevated Installation >20' To 25', Add	2.64	
			For Elevated Installation >25' To 30', Add	3.70	
			For Elevated Installation >30' To 35', Add	4.22	
			For Elevated Installation >35' To 40', Add	5.28	
			For Elevated Installation >40', Add	5.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.17	
26 05 33 13-0665	EA		1-1/4" Electrical Metallic Tubing (EMT) Insulated Bushing	14.05	5.46
			For Work In Restricted Working Space, Add	4.06	
			For Elevated Installation >10' To 15', Add	1.35	
			For Elevated Installation >15' To 20', Add	2.70	
			For Elevated Installation >20' To 25', Add	3.38	
			For Elevated Installation >25' To 30', Add	4.73	
			For Elevated Installation >30' To 35', Add	5.41	
			For Elevated Installation >35' To 40', Add	6.76	
			For Elevated Installation >40', Add	7.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.06	
26 05 33 13-0666	EA		1-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	16.61	6.28
			For Work In Restricted Working Space, Add	4.73	
			For Elevated Installation >10' To 15', Add	1.58	
			For Elevated Installation >15' To 20', Add	3.16	
			For Elevated Installation >20' To 25', Add	3.95	
			For Elevated Installation >25' To 30', Add	5.52	
			For Elevated Installation >30' To 35', Add	6.31	
			For Elevated Installation >35' To 40', Add	7.89	
			For Elevated Installation >40', Add	8.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0667	EA		2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	20.38	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.80	
			For Elevated Installation >20' To 25', Add	4.75	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0668	EA		2-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	29.35	10.56
			For Work In Restricted Working Space, Add	7.90	
			For Elevated Installation >10' To 15', Add	2.63	
			For Elevated Installation >15' To 20', Add	5.27	
			For Elevated Installation >20' To 25', Add	6.58	
			For Elevated Installation >25' To 30', Add	9.22	
			For Elevated Installation >30' To 35', Add	10.53	
			For Elevated Installation >35' To 40', Add	13.17	
			For Elevated Installation >40', Add	14.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.90	
26 05 33 13-0669	EA		3" Electrical Metallic Tubing (EMT) Insulated Bushing.....	38.94	14.00
			For Work In Restricted Working Space, Add	10.53	
			For Elevated Installation >10' To 15', Add	3.51	
			For Elevated Installation >15' To 20', Add	7.02	
			For Elevated Installation >20' To 25', Add	8.78	
			For Elevated Installation >25' To 30', Add	12.29	
			For Elevated Installation >30' To 35', Add	14.04	
			For Elevated Installation >35' To 40', Add	17.55	
			For Elevated Installation >40', Add	19.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.53	
26 05 33 13-0670	EA		3-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	49.92	18.02
			For Work In Restricted Working Space, Add	13.56	
			For Elevated Installation >10' To 15', Add	4.52	
			For Elevated Installation >15' To 20', Add	9.04	
			For Elevated Installation >20' To 25', Add	11.30	
			For Elevated Installation >25' To 30', Add	15.82	
			For Elevated Installation >30' To 35', Add	18.08	
			For Elevated Installation >35' To 40', Add	22.60	
			For Elevated Installation >40', Add	24.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.56	
26 05 33 13-0671	EA		4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	64.57	23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0672			Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw ⁽²⁶⁾		
			05 33 13-0594		
26 05 33 13-0673	EA		1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.14	2.37
			For Work In Restricted Working Space, Add	1.78	
			For Elevated Installation >10' To 15', Add	0.59	
			For Elevated Installation >15' To 20', Add	1.19	
			For Elevated Installation >20' To 25', Add	1.48	
			For Elevated Installation >25' To 30', Add	2.08	
			For Elevated Installation >30' To 35', Add	2.37	
			For Elevated Installation >35' To 40', Add	2.97	
			For Elevated Installation >40', Add	3.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.78	
26 05 33 13-0674	EA		3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.45	2.85
			For Work In Restricted Working Space, Add	2.14	
			For Elevated Installation >10' To 15', Add	0.71	
			For Elevated Installation >15' To 20', Add	1.42	
			For Elevated Installation >20' To 25', Add	1.78	
			For Elevated Installation >25' To 30', Add	2.49	
			For Elevated Installation >30' To 35', Add	2.85	
			For Elevated Installation >35' To 40', Add	3.56	
			For Elevated Installation >40', Add	3.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.14	
26 05 33 13-0675	EA		1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	8.88	3.32
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0676	EA	1-1/4"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.92 3.56 1.19 2.37 2.97 4.15 4.74 5.93 6.52 3.56	4.75
26 05 33 13-0677	EA	1-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.77 4.27 1.42 2.85 3.56 4.98 5.69 7.12 7.83 4.27	5.69
26 05 33 13-0678	EA	2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.07 5.34 1.78 3.56 4.45 6.23 7.12 8.90 9.78 5.34	7.12
26 05 33 13-0679	EA	2-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.07 7.12 2.37 4.74 5.93 8.30 9.49 11.86 13.05 7.12	9.48
26 05 33 13-0680	EA	3"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.41 8.90 2.97 5.93 7.41 10.38 11.86 14.83 16.31 8.90	11.86
26 05 33 13-0681	EA	3-1/2"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.30 10.67 3.56 7.12 8.90 12.45 14.23 17.79 19.57 10.67	14.23
26 05 33 13-0682	EA	4"	Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.61 12.45 4.15 8.30 10.38 14.53 16.60 20.76 22.83 12.45	16.61
26 05 33 13-0683 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw (26 05 33 13-0594)					
26 05 33 13-0684	EA	1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29 2.39 0.80 1.59 1.99 2.78 3.18 3.98 4.37 2.39	3.20

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0685	EA	3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.20	3.44
			<i>For Work In Restricted Working Space, Add</i>	2.60	
			<i>For Elevated Installation >10' To 15', Add</i>	0.87	
			<i>For Elevated Installation >15' To 20', Add</i>	1.73	
			<i>For Elevated Installation >20' To 25', Add</i>	2.17	
			<i>For Elevated Installation >25' To 30', Add</i>	3.03	
			<i>For Elevated Installation >30' To 35', Add</i>	3.46	
			<i>For Elevated Installation >35' To 40', Add</i>	4.33	
			<i>For Elevated Installation >40', Add</i>	4.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.60	
26 05 33	13-0686	EA	1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	11.53	4.27
			<i>For Work In Restricted Working Space, Add</i>	3.17	
			<i>For Elevated Installation >10' To 15', Add</i>	1.06	
			<i>For Elevated Installation >15' To 20', Add</i>	2.11	
			<i>For Elevated Installation >20' To 25', Add</i>	2.64	
			<i>For Elevated Installation >25' To 30', Add</i>	3.70	
			<i>For Elevated Installation >30' To 35', Add</i>	4.22	
			<i>For Elevated Installation >35' To 40', Add</i>	5.28	
			<i>For Elevated Installation >40', Add</i>	5.81	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.17	
26 05 33	13-0687	EA	1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	15.13	5.46
			<i>For Work In Restricted Working Space, Add</i>	4.06	
			<i>For Elevated Installation >10' To 15', Add</i>	1.35	
			<i>For Elevated Installation >15' To 20', Add</i>	2.70	
			<i>For Elevated Installation >20' To 25', Add</i>	3.38	
			<i>For Elevated Installation >25' To 30', Add</i>	4.73	
			<i>For Elevated Installation >30' To 35', Add</i>	5.41	
			<i>For Elevated Installation >35' To 40', Add</i>	6.76	
			<i>For Elevated Installation >40', Add</i>	7.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.06	
26 05 33	13-0688	EA	1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	17.92	6.28
			<i>For Work In Restricted Working Space, Add</i>	4.73	
			<i>For Elevated Installation >10' To 15', Add</i>	1.58	
			<i>For Elevated Installation >15' To 20', Add</i>	3.16	
			<i>For Elevated Installation >20' To 25', Add</i>	3.95	
			<i>For Elevated Installation >25' To 30', Add</i>	5.52	
			<i>For Elevated Installation >30' To 35', Add</i>	6.31	
			<i>For Elevated Installation >35' To 40', Add</i>	7.89	
			<i>For Elevated Installation >40', Add</i>	8.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.73	
26 05 33	13-0689	EA	2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	21.92	7.59
			<i>For Work In Restricted Working Space, Add</i>	5.69	
			<i>For Elevated Installation >10' To 15', Add</i>	1.90	
			<i>For Elevated Installation >15' To 20', Add</i>	3.80	
			<i>For Elevated Installation >20' To 25', Add</i>	4.75	
			<i>For Elevated Installation >25' To 30', Add</i>	6.64	
			<i>For Elevated Installation >30' To 35', Add</i>	7.59	
			<i>For Elevated Installation >35' To 40', Add</i>	9.49	
			<i>For Elevated Installation >40', Add</i>	10.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.69	
26 05 33	13-0690	EA	2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	35.94	10.56
			<i>For Work In Restricted Working Space, Add</i>	7.90	
			<i>For Elevated Installation >10' To 15', Add</i>	2.63	
			<i>For Elevated Installation >15' To 20', Add</i>	5.27	
			<i>For Elevated Installation >20' To 25', Add</i>	6.58	
			<i>For Elevated Installation >25' To 30', Add</i>	9.22	
			<i>For Elevated Installation >30' To 35', Add</i>	10.53	
			<i>For Elevated Installation >35' To 40', Add</i>	13.17	
			<i>For Elevated Installation >40', Add</i>	14.48	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.90	
26 05 33	13-0691	EA	3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	46.59	14.00
			<i>For Work In Restricted Working Space, Add</i>	10.53	
			<i>For Elevated Installation >10' To 15', Add</i>	3.51	
			<i>For Elevated Installation >15' To 20', Add</i>	7.02	
			<i>For Elevated Installation >20' To 25', Add</i>	8.78	
			<i>For Elevated Installation >25' To 30', Add</i>	12.29	
			<i>For Elevated Installation >30' To 35', Add</i>	14.04	
			<i>For Elevated Installation >35' To 40', Add</i>	17.55	
			<i>For Elevated Installation >40', Add</i>	19.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.53	
26 05 33	13-0692	EA	3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	59.56	18.02
			<i>For Work In Restricted Working Space, Add</i>	13.56	
			<i>For Elevated Installation >10' To 15', Add</i>	4.52	
			<i>For Elevated Installation >15' To 20', Add</i>	9.04	
			<i>For Elevated Installation >20' To 25', Add</i>	11.30	
			<i>For Elevated Installation >25' To 30', Add</i>	15.82	
			<i>For Elevated Installation >30' To 35', Add</i>	18.08	
			<i>For Elevated Installation >35' To 40', Add</i>	22.60	
			<i>For Elevated Installation >40', Add</i>	24.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0693	EA		4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	75.11	23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0694 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33 13-0594)					
26 05 33 13-0695	EA		1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	7.45	2.85
			For Work In Restricted Working Space, Add	2.14	
			For Elevated Installation >10' To 15', Add	0.71	
			For Elevated Installation >15' To 20', Add	1.42	
			For Elevated Installation >20' To 25', Add	1.78	
			For Elevated Installation >25' To 30', Add	2.49	
			For Elevated Installation >30' To 35', Add	2.85	
			For Elevated Installation >35' To 40', Add	3.56	
			For Elevated Installation >40', Add	3.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.14	
26 05 33 13-0696	EA		3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	8.80	3.32
			For Work In Restricted Working Space, Add	2.49	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.49	
26 05 33 13-0697	EA		1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	12.57	4.75
			For Work In Restricted Working Space, Add	3.56	
			For Elevated Installation >10' To 15', Add	1.19	
			For Elevated Installation >15' To 20', Add	2.37	
			For Elevated Installation >20' To 25', Add	2.97	
			For Elevated Installation >25' To 30', Add	4.15	
			For Elevated Installation >30' To 35', Add	4.74	
			For Elevated Installation >35' To 40', Add	5.93	
			For Elevated Installation >40', Add	6.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-0698	EA		1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	15.57	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-0699	EA		1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	18.49	6.64
			For Work In Restricted Working Space, Add	4.98	
			For Elevated Installation >10' To 15', Add	1.66	
			For Elevated Installation >15' To 20', Add	3.32	
			For Elevated Installation >20' To 25', Add	4.15	
			For Elevated Installation >25' To 30', Add	5.81	
			For Elevated Installation >30' To 35', Add	6.64	
			For Elevated Installation >35' To 40', Add	8.31	
			For Elevated Installation >40', Add	9.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-0700	EA		2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	24.08	8.54
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0701	EA		2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	36.68	11.39
			For Work In Restricted Working Space, Add	8.54	
			For Elevated Installation >10' To 15', Add	2.85	
			For Elevated Installation >15' To 20', Add	5.69	
			For Elevated Installation >20' To 25', Add	7.12	
			For Elevated Installation >25' To 30', Add	9.96	
			For Elevated Installation >30' To 35', Add	11.38	
			For Elevated Installation >35' To 40', Add	14.23	
			For Elevated Installation >40', Add	15.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0702	EA		3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	46.33	14.23
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.67	
26 05 33 13-0703	EA		3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	58.07	16.61
			For Work In Restricted Working Space, Add	12.45	
			For Elevated Installation >10' To 15', Add	4.15	
			For Elevated Installation >15' To 20', Add	8.30	
			For Elevated Installation >20' To 25', Add	10.38	
			For Elevated Installation >25' To 30', Add	14.53	
			For Elevated Installation >30' To 35', Add	16.60	
			For Elevated Installation >35' To 40', Add	20.76	
			For Elevated Installation >40', Add	22.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-0704	EA		4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector	65.40	18.98
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.23	
26 05 33 13-0705 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors (26 05 33 13-0594)					
26 05 33 13-0706	EA		1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	8.51	3.20
			For Work In Restricted Working Space, Add	2.39	
			For Elevated Installation >10' To 15', Add	0.80	
			For Elevated Installation >15' To 20', Add	1.59	
			For Elevated Installation >20' To 25', Add	1.99	
			For Elevated Installation >25' To 30', Add	2.78	
			For Elevated Installation >30' To 35', Add	3.18	
			For Elevated Installation >35' To 40', Add	3.98	
			For Elevated Installation >40', Add	4.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.39	
26 05 33 13-0707	EA		3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	9.44	3.44
			For Work In Restricted Working Space, Add	2.60	
			For Elevated Installation >10' To 15', Add	0.87	
			For Elevated Installation >15' To 20', Add	1.73	
			For Elevated Installation >20' To 25', Add	2.17	
			For Elevated Installation >25' To 30', Add	3.03	
			For Elevated Installation >30' To 35', Add	3.46	
			For Elevated Installation >35' To 40', Add	4.33	
			For Elevated Installation >40', Add	4.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.60	
26 05 33 13-0708	EA		1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	11.72	4.27
			For Work In Restricted Working Space, Add	3.17	
			For Elevated Installation >10' To 15', Add	1.06	
			For Elevated Installation >15' To 20', Add	2.11	
			For Elevated Installation >20' To 25', Add	2.64	
			For Elevated Installation >25' To 30', Add	3.70	
			For Elevated Installation >30' To 35', Add	4.22	
			For Elevated Installation >35' To 40', Add	5.28	
			For Elevated Installation >40', Add	5.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.17	
26 05 33 13-0709	EA		1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	15.69	5.46
			For Work In Restricted Working Space, Add	4.06	
			For Elevated Installation >10' To 15', Add	1.35	
			For Elevated Installation >15' To 20', Add	2.70	
			For Elevated Installation >20' To 25', Add	3.38	
			For Elevated Installation >25' To 30', Add	4.73	
			For Elevated Installation >30' To 35', Add	5.41	
			For Elevated Installation >35' To 40', Add	6.76	
			For Elevated Installation >40', Add	7.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.06	
26 05 33 13-0710	EA		1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector	18.85	6.28
			For Work In Restricted Working Space, Add	4.73	
			For Elevated Installation >10' To 15', Add	1.58	
			For Elevated Installation >15' To 20', Add	3.16	
			For Elevated Installation >20' To 25', Add	3.95	
			For Elevated Installation >25' To 30', Add	5.52	
			For Elevated Installation >30' To 35', Add	6.31	
			For Elevated Installation >35' To 40', Add	7.89	
			For Elevated Installation >40', Add	8.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.73	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0711	EA		2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector 23.27		7.59
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.80	
			For Elevated Installation >20' To 25', Add	4.75	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.59	
			For Elevated Installation >35' To 40', Add	9.49	
			For Elevated Installation >40', Add	10.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0712	EA		2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector 40.90		10.56
			For Work In Restricted Working Space, Add	7.90	
			For Elevated Installation >10' To 15', Add	2.63	
			For Elevated Installation >15' To 20', Add	5.27	
			For Elevated Installation >20' To 25', Add	6.58	
			For Elevated Installation >25' To 30', Add	9.22	
			For Elevated Installation >30' To 35', Add	10.53	
			For Elevated Installation >35' To 40', Add	13.17	
			For Elevated Installation >40', Add	14.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.90	
26 05 33 13-0713	EA		3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector 54.92		14.00
			For Work In Restricted Working Space, Add	10.53	
			For Elevated Installation >10' To 15', Add	3.51	
			For Elevated Installation >15' To 20', Add	7.02	
			For Elevated Installation >20' To 25', Add	8.78	
			For Elevated Installation >25' To 30', Add	12.29	
			For Elevated Installation >30' To 35', Add	14.04	
			For Elevated Installation >35' To 40', Add	17.55	
			For Elevated Installation >40', Add	19.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.53	
26 05 33 13-0714	EA		3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector 74.15		18.02
			For Work In Restricted Working Space, Add	13.56	
			For Elevated Installation >10' To 15', Add	4.52	
			For Elevated Installation >15' To 20', Add	9.04	
			For Elevated Installation >20' To 25', Add	11.30	
			For Elevated Installation >25' To 30', Add	15.82	
			For Elevated Installation >30' To 35', Add	18.08	
			For Elevated Installation >35' To 40', Add	22.60	
			For Elevated Installation >40', Add	24.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.56	
26 05 33 13-0715	EA		4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector 93.17		23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0716			Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0594)		
			Note: Excludes jumper.		
26 05 33 13-0717	EA		1/2" Electrical Metallic Tubing (EMT) Expansion Coupling 62.44		15.78
			For Work In Restricted Working Space, Add	11.84	
			For Elevated Installation >10' To 15', Add	3.95	
			For Elevated Installation >15' To 20', Add	7.89	
			For Elevated Installation >20' To 25', Add	9.87	
			For Elevated Installation >25' To 30', Add	13.81	
			For Elevated Installation >30' To 35', Add	15.79	
			For Elevated Installation >35' To 40', Add	19.74	
			For Elevated Installation >40', Add	21.71	
26 05 33 13-0718	EA		3/4" Electrical Metallic Tubing (EMT) Expansion Coupling 75.25		19.10
			For Work In Restricted Working Space, Add	14.36	
			For Elevated Installation >10' To 15', Add	4.79	
			For Elevated Installation >15' To 20', Add	9.57	
			For Elevated Installation >20' To 25', Add	11.96	
			For Elevated Installation >25' To 30', Add	16.75	
			For Elevated Installation >30' To 35', Add	19.14	
			For Elevated Installation >35' To 40', Add	23.93	
			For Elevated Installation >40', Add	26.32	
26 05 33 13-0719	EA		1" Electrical Metallic Tubing (EMT) Expansion Coupling 92.52		23.96
			For Work In Restricted Working Space, Add	17.94	
			For Elevated Installation >10' To 15', Add	5.98	
			For Elevated Installation >15' To 20', Add	11.96	
			For Elevated Installation >20' To 25', Add	14.95	
			For Elevated Installation >25' To 30', Add	20.93	
			For Elevated Installation >30' To 35', Add	23.92	
			For Elevated Installation >35' To 40', Add	29.90	
			For Elevated Installation >40', Add	32.89	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0720 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	119.41	29.41
For Work In Restricted Working Space, Add	22.07	
For Elevated Installation >10' To 15', Add	7.36	
For Elevated Installation >15' To 20', Add	14.71	
For Elevated Installation >20' To 25', Add	18.39	
For Elevated Installation >25' To 30', Add	25.75	
For Elevated Installation >30' To 35', Add	29.43	
For Elevated Installation >35' To 40', Add	36.79	
For Elevated Installation >40', Add	40.46	
26 05 33 13-0721 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	148.06	34.51
For Work In Restricted Working Space, Add	25.89	
For Elevated Installation >10' To 15', Add	8.63	
For Elevated Installation >15' To 20', Add	17.26	
For Elevated Installation >20' To 25', Add	21.57	
For Elevated Installation >25' To 30', Add	30.20	
For Elevated Installation >30' To 35', Add	34.52	
For Elevated Installation >35' To 40', Add	43.15	
For Elevated Installation >40', Add	47.46	
26 05 33 13-0722 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling	185.39	41.99
For Work In Restricted Working Space, Add	31.52	
For Elevated Installation >10' To 15', Add	10.51	
For Elevated Installation >15' To 20', Add	21.01	
For Elevated Installation >20' To 25', Add	26.27	
For Elevated Installation >25' To 30', Add	36.77	
For Elevated Installation >30' To 35', Add	42.02	
For Elevated Installation >35' To 40', Add	52.53	
For Elevated Installation >40', Add	57.78	
26 05 33 13-0723 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	349.96	53.96
For Work In Restricted Working Space, Add	40.48	
For Elevated Installation >10' To 15', Add	13.49	
For Elevated Installation >15' To 20', Add	26.99	
For Elevated Installation >20' To 25', Add	33.74	
For Elevated Installation >25' To 30', Add	47.23	
For Elevated Installation >30' To 35', Add	53.98	
For Elevated Installation >35' To 40', Add	67.47	
For Elevated Installation >40', Add	74.22	
26 05 33 13-0724 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling	427.60	63.09
For Work In Restricted Working Space, Add	47.34	
For Elevated Installation >10' To 15', Add	15.78	
For Elevated Installation >15' To 20', Add	31.56	
For Elevated Installation >20' To 25', Add	39.45	
For Elevated Installation >25' To 30', Add	55.23	
For Elevated Installation >30' To 35', Add	63.12	
For Elevated Installation >35' To 40', Add	78.90	
For Elevated Installation >40', Add	86.78	
26 05 33 13-0725 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	523.84	68.78
For Work In Restricted Working Space, Add	51.61	
For Elevated Installation >10' To 15', Add	17.20	
For Elevated Installation >15' To 20', Add	34.40	
For Elevated Installation >20' To 25', Add	43.01	
For Elevated Installation >25' To 30', Add	60.21	
For Elevated Installation >30' To 35', Add	68.81	
For Elevated Installation >35' To 40', Add	86.01	
For Elevated Installation >40', Add	94.61	
26 05 33 13-0726 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling	567.21	75.90
For Work In Restricted Working Space, Add	56.95	
For Elevated Installation >10' To 15', Add	18.98	
For Elevated Installation >15' To 20', Add	37.97	
For Elevated Installation >20' To 25', Add	47.46	
For Elevated Installation >25' To 30', Add	66.44	
For Elevated Installation >30' To 35', Add	75.93	
For Elevated Installation >35' To 40', Add	94.92	
For Elevated Installation >40', Add	104.41	
26 05 33 13-0727 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters		
(26 05 33 13-0594)		
26 05 33 13-0728 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	11.92	4.27
For Work In Restricted Working Space, Add	3.16	
For Elevated Installation >10' To 15', Add	1.05	
For Elevated Installation >15' To 20', Add	2.11	
For Elevated Installation >20' To 25', Add	2.63	
For Elevated Installation >25' To 30', Add	3.69	
For Elevated Installation >30' To 35', Add	4.21	
For Elevated Installation >35' To 40', Add	5.27	
For Elevated Installation >40', Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.16	
26 05 33 13-0729 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	12.67	4.27
For Work In Restricted Working Space, Add	3.16	
For Elevated Installation >10' To 15', Add	1.05	
For Elevated Installation >15' To 20', Add	2.11	
For Elevated Installation >20' To 25', Add	2.63	
For Elevated Installation >25' To 30', Add	3.69	
For Elevated Installation >30' To 35', Add	4.21	
For Elevated Installation >35' To 40', Add	5.27	
For Elevated Installation >40', Add	5.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.16	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0730	EA		3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	14.16	4.63
			For Work In Restricted Working Space, Add	3.51	
			For Elevated Installation >10' To 15', Add	1.17	
			For Elevated Installation >15' To 20', Add	2.34	
			For Elevated Installation >20' To 25', Add	2.93	
			For Elevated Installation >25' To 30', Add	4.10	
			For Elevated Installation >30' To 35', Add	4.68	
			For Elevated Installation >35' To 40', Add	5.85	
			For Elevated Installation >40', Add	6.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.51	
26 05 33 13-0731	EA		1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	16.47	5.34
			For Work In Restricted Working Space, Add	4.00	
			For Elevated Installation >10' To 15', Add	1.33	
			For Elevated Installation >15' To 20', Add	2.66	
			For Elevated Installation >20' To 25', Add	3.33	
			For Elevated Installation >25' To 30', Add	4.66	
			For Elevated Installation >30' To 35', Add	5.33	
			For Elevated Installation >35' To 40', Add	6.66	
			For Elevated Installation >40', Add	7.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.00	
26 05 33 13-0732	EA		1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	23.24	6.40
			For Work In Restricted Working Space, Add	4.83	
			For Elevated Installation >10' To 15', Add	1.61	
			For Elevated Installation >15' To 20', Add	3.22	
			For Elevated Installation >20' To 25', Add	4.03	
			For Elevated Installation >25' To 30', Add	5.64	
			For Elevated Installation >30' To 35', Add	6.44	
			For Elevated Installation >35' To 40', Add	8.06	
			For Elevated Installation >40', Add	8.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.83	
26 05 33 13-0733	EA		1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter	28.33	7.36
			For Work In Restricted Working Space, Add	5.52	
			For Elevated Installation >10' To 15', Add	1.84	
			For Elevated Installation >15' To 20', Add	3.68	
			For Elevated Installation >20' To 25', Add	4.60	
			For Elevated Installation >25' To 30', Add	6.44	
			For Elevated Installation >30' To 35', Add	7.36	
			For Elevated Installation >35' To 40', Add	9.21	
			For Elevated Installation >40', Add	10.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-0734	EA		2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	36.84	9.25
			For Work In Restricted Working Space, Add	6.90	
			For Elevated Installation >10' To 15', Add	2.30	
			For Elevated Installation >15' To 20', Add	4.60	
			For Elevated Installation >20' To 25', Add	5.75	
			For Elevated Installation >25' To 30', Add	8.05	
			For Elevated Installation >30' To 35', Add	9.20	
			For Elevated Installation >35' To 40', Add	11.50	
			For Elevated Installation >40', Add	12.65	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.90	
26 05 33 13-0735			Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0594)		
26 05 33 13-0736	EA		1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	24.95	10.68
			For Work In Restricted Working Space, Add	6.41	
			For Elevated Installation >15' To 20', Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-0737	EA		3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	29.09	12.45
			For Work In Restricted Working Space, Add	7.47	
			For Elevated Installation >15' To 20', Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.47	
26 05 33 13-0738	EA		1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	35.92	14.23
			For Work In Restricted Working Space, Add	8.54	
			For Elevated Installation >15' To 20', Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 05 33 13-0739	EA		1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	45.85	17.79
			For Work In Restricted Working Space, Add	10.67	
			For Elevated Installation >15' To 20', Add	7.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.67	
26 05 33 13-0740			Intermediate Metal Conduit (IMC) (26 05 33 13-0059)		
			Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0741			Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0740)		
			Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0742	LF		1/2" Intermediate Metal Conduit (IMC) Conduit	8.78	2.37
			For >250 To 500, Deduct	-0.13	
			For >500 To 1,000, Deduct	-0.20	
			For >1,000, Deduct	-0.26	
			For Installation In Metal Stud Wall, Add	0.62	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.54	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.93	
			For Work In Restricted Working Space, Add	1.85	
			For Elevated Installation >10' To 15', Add	0.62	
			For Elevated Installation >15' To 20', Add	1.23	
			For Elevated Installation >20' To 25', Add	1.54	
			For Elevated Installation >25' To 30', Add	2.16	
			For Elevated Installation >30' To 35', Add	2.47	
			For Elevated Installation >35' To 40', Add	3.09	
			For Elevated Installation >40', Add	3.39	
26 05 33 13-0743	LF		3/4" Intermediate Metal Conduit (IMC) Conduit	10.47	2.61
			For >250 To 500, Deduct	-0.16	
			For >500 To 1,000, Deduct	-0.23	
			For >1,000, Deduct	-0.31	
			For Installation In Metal Stud Wall, Add	0.74	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.84	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.10	
			For Work In Restricted Working Space, Add	2.21	
			For Elevated Installation >10' To 15', Add	0.74	
			For Elevated Installation >15' To 20', Add	1.47	
			For Elevated Installation >20' To 25', Add	1.84	
			For Elevated Installation >25' To 30', Add	2.58	
			For Elevated Installation >30' To 35', Add	2.94	
			For Elevated Installation >35' To 40', Add	3.68	
			For Elevated Installation >40', Add	4.05	
26 05 33 13-0744	LF		1" Intermediate Metal Conduit (IMC) Conduit	14.06	2.85
			For >250 To 500, Deduct	-0.24	
			For >500 To 1,000, Deduct	-0.36	
			For >1,000, Deduct	-0.48	
			For Installation In Metal Stud Wall, Add	0.93	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.31	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.39	
			For Work In Restricted Working Space, Add	2.78	
			For Elevated Installation >10' To 15', Add	0.93	
			For Elevated Installation >15' To 20', Add	1.85	
			For Elevated Installation >20' To 25', Add	2.31	
			For Elevated Installation >25' To 30', Add	3.24	
			For Elevated Installation >30' To 35', Add	3.70	
			For Elevated Installation >35' To 40', Add	4.63	
			For Elevated Installation >40', Add	5.09	
26 05 33 13-0745	LF		1-1/4" Intermediate Metal Conduit (IMC) Conduit	16.29	5.69
			For >250 To 500, Deduct	-0.30	
			For >500 To 1,000, Deduct	-0.46	
			For >1,000, Deduct	-0.61	
			For Installation In Metal Stud Wall, Add	1.02	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.55	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.53	
			For Work In Restricted Working Space, Add	3.06	
			For Elevated Installation >10' To 15', Add	1.02	
			For Elevated Installation >15' To 20', Add	2.04	
			For Elevated Installation >20' To 25', Add	2.55	
			For Elevated Installation >25' To 30', Add	3.57	
			For Elevated Installation >30' To 35', Add	4.08	
			For Elevated Installation >35' To 40', Add	5.10	
			For Elevated Installation >40', Add	5.61	
26 05 33 13-0746	LF		1-1/2" Intermediate Metal Conduit (IMC) Conduit	18.34	3.79
			For >250 To 500, Deduct	-0.36	
			For >500 To 1,000, Deduct	-0.54	
			For >1,000, Deduct	-0.72	
			For Installation In Metal Stud Wall, Add	1.12	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.79	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.67	
			For Work In Restricted Working Space, Add	3.35	
			For Elevated Installation >10' To 15', Add	1.12	
			For Elevated Installation >15' To 20', Add	2.23	
			For Elevated Installation >20' To 25', Add	2.79	
			For Elevated Installation >25' To 30', Add	3.90	
			For Elevated Installation >30' To 35', Add	4.46	
			For Elevated Installation >35' To 40', Add	5.58	
			For Elevated Installation >40', Add	6.13	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0747	LF	2" Intermediate Metal Conduit (IMC) Conduit		23.27	4.27
		For >250 To 500, Deduct		-0.49	
		For >500 To 1,000, Deduct		-0.73	
		For >1,000, Deduct		-0.98	
		For Installation In Metal Stud Wall, Add		1.35	
		For Installation In Wood Stud Wall (Includes Drilling), Add		3.38	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		2.03	
		For Work In Restricted Working Space, Add		4.06	
		For Elevated Installation >10' To 15', Add		1.35	
		For Elevated Installation >15' To 20', Add		2.70	
		For Elevated Installation >20' To 25', Add		3.38	
		For Elevated Installation >25' To 30', Add		4.73	
		For Elevated Installation >30' To 35', Add		5.41	
		For Elevated Installation >35' To 40', Add		6.76	
		For Elevated Installation >40', Add		7.44	
26 05 33 13-0748	LF	2-1/2" Intermediate Metal Conduit (IMC) Conduit		39.52	5.69
		For >250 To 500, Deduct		-1.08	
		For >500 To 1,000, Deduct		-1.62	
		For >1,000, Deduct		-2.16	
		For Installation In Metal Stud Wall, Add		1.79	
		For Installation In Wood Stud Wall (Includes Drilling), Add		4.48	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		2.69	
		For Work In Restricted Working Space, Add		5.37	
		For Elevated Installation >10' To 15', Add		1.79	
		For Elevated Installation >15' To 20', Add		3.58	
		For Elevated Installation >20' To 25', Add		4.48	
		For Elevated Installation >25' To 30', Add		6.27	
		For Elevated Installation >30' To 35', Add		7.16	
		For Elevated Installation >35' To 40', Add		8.96	
		For Elevated Installation >40', Add		9.85	
26 05 33 13-0749	LF	3" Intermediate Metal Conduit (IMC) Conduit		50.32	7.12
		For >250 To 500, Deduct		-1.33	
		For >500 To 1,000, Deduct		-2.00	
		For >1,000, Deduct		-2.66	
		For Installation In Metal Stud Wall, Add		2.37	
		For Installation In Wood Stud Wall (Includes Drilling), Add		5.93	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		3.56	
		For Work In Restricted Working Space, Add		7.12	
		For Elevated Installation >10' To 15', Add		2.37	
		For Elevated Installation >15' To 20', Add		4.74	
		For Elevated Installation >20' To 25', Add		5.93	
		For Elevated Installation >25' To 30', Add		8.30	
		For Elevated Installation >30' To 35', Add		9.49	
		For Elevated Installation >35' To 40', Add		11.86	
		For Elevated Installation >40', Add		13.05	
26 05 33 13-0750	LF	3-1/2" Intermediate Metal Conduit (IMC) Conduit		57.97	8.54
		For >250 To 500, Deduct		-1.54	
		For >500 To 1,000, Deduct		-2.31	
		For >1,000, Deduct		-3.08	
		For Installation In Metal Stud Wall, Add		2.72	
		For Installation In Wood Stud Wall (Includes Drilling), Add		6.79	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		4.07	
		For Work In Restricted Working Space, Add		8.15	
		For Elevated Installation >10' To 15', Add		2.72	
		For Elevated Installation >15' To 20', Add		5.43	
		For Elevated Installation >20' To 25', Add		6.79	
		For Elevated Installation >25' To 30', Add		9.51	
		For Elevated Installation >30' To 35', Add		10.86	
		For Elevated Installation >35' To 40', Add		13.58	
		For Elevated Installation >40', Add		14.94	
26 05 33 13-0751	LF	4" Intermediate Metal Conduit (IMC) Conduit		67.92	9.97
		For >250 To 500, Deduct		-1.81	
		For >500 To 1,000, Deduct		-2.72	
		For >1,000, Deduct		-3.63	
		For Installation In Metal Stud Wall, Add		3.17	
		For Installation In Wood Stud Wall (Includes Drilling), Add		7.92	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		4.75	
		For Work In Restricted Working Space, Add		9.50	
		For Elevated Installation >10' To 15', Add		3.17	
		For Elevated Installation >15' To 20', Add		6.33	
		For Elevated Installation >20' To 25', Add		7.92	
		For Elevated Installation >25' To 30', Add		11.08	
		For Elevated Installation >30' To 35', Add		12.66	
		For Elevated Installation >35' To 40', Add		15.83	
		For Elevated Installation >40', Add		17.41	

26 05 33 13-0752 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0740)
See CSI section 26 05 33 13-2508 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0753	EA	1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	40.85	11.74
		For Work In Restricted Working Space, Add	8.83	
		For Elevated Installation >10' To 15', Add	2.94	
		For Elevated Installation >15' To 20', Add	5.89	
		For Elevated Installation >20' To 25', Add	7.36	
		For Elevated Installation >25' To 30', Add	10.30	
		For Elevated Installation >30' To 35', Add	11.78	
		For Elevated Installation >35' To 40', Add	14.72	
		For Elevated Installation >40', Add	16.19	
26 05 33 13-0754	EA	3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	49.42	14.59
		For Work In Restricted Working Space, Add	10.98	
		For Elevated Installation >10' To 15', Add	3.66	
		For Elevated Installation >15' To 20', Add	7.32	
		For Elevated Installation >20' To 25', Add	9.15	
		For Elevated Installation >25' To 30', Add	12.81	
		For Elevated Installation >30' To 35', Add	14.64	
		For Elevated Installation >35' To 40', Add	18.31	
		For Elevated Installation >40', Add	20.14	
26 05 33 13-0755	EA	1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	62.85	17.91
		For Work In Restricted Working Space, Add	13.40	
		For Elevated Installation >10' To 15', Add	4.47	
		For Elevated Installation >15' To 20', Add	8.93	
		For Elevated Installation >20' To 25', Add	11.16	
		For Elevated Installation >25' To 30', Add	15.63	
		For Elevated Installation >30' To 35', Add	17.86	
		For Elevated Installation >35' To 40', Add	22.33	
		For Elevated Installation >40', Add	24.56	
26 05 33 13-0756	EA	1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	77.36	20.75
		For Work In Restricted Working Space, Add	15.55	
		For Elevated Installation >10' To 15', Add	5.18	
		For Elevated Installation >15' To 20', Add	10.37	
		For Elevated Installation >20' To 25', Add	12.96	
		For Elevated Installation >25' To 30', Add	18.14	
		For Elevated Installation >30' To 35', Add	20.74	
		For Elevated Installation >35' To 40', Add	25.92	
		For Elevated Installation >40', Add	28.51	
26 05 33 13-0757	EA	1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	91.78	23.83
		For Work In Restricted Working Space, Add	17.85	
		For Elevated Installation >10' To 15', Add	5.95	
		For Elevated Installation >15' To 20', Add	11.90	
		For Elevated Installation >20' To 25', Add	14.88	
		For Elevated Installation >25' To 30', Add	20.83	
		For Elevated Installation >30' To 35', Add	23.80	
		For Elevated Installation >35' To 40', Add	29.75	
		For Elevated Installation >40', Add	32.73	
26 05 33 13-0758	EA	2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	111.92	26.21
		For Work In Restricted Working Space, Add	19.64	
		For Elevated Installation >10' To 15', Add	6.55	
		For Elevated Installation >15' To 20', Add	13.09	
		For Elevated Installation >20' To 25', Add	16.36	
		For Elevated Installation >25' To 30', Add	22.91	
		For Elevated Installation >30' To 35', Add	26.18	
		For Elevated Installation >35' To 40', Add	32.73	
		For Elevated Installation >40', Add	36.00	
26 05 33 13-0759	EA	2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	160.73	32.74
		For Work In Restricted Working Space, Add	24.55	
		For Elevated Installation >10' To 15', Add	8.18	
		For Elevated Installation >15' To 20', Add	16.37	
		For Elevated Installation >20' To 25', Add	20.46	
		For Elevated Installation >25' To 30', Add	28.64	
		For Elevated Installation >30' To 35', Add	32.73	
		For Elevated Installation >35' To 40', Add	40.92	
		For Elevated Installation >40', Add	45.01	
26 05 33 13-0760	EA	3" Intermediate Metal Conduit (IMC) 90 Degree Elbow	232.27	44.60
		For Work In Restricted Working Space, Add	33.44	
		For Elevated Installation >10' To 15', Add	11.15	
		For Elevated Installation >15' To 20', Add	22.30	
		For Elevated Installation >20' To 25', Add	27.87	
		For Elevated Installation >25' To 30', Add	39.02	
		For Elevated Installation >30' To 35', Add	44.59	
		For Elevated Installation >35' To 40', Add	55.74	
		For Elevated Installation >40', Add	61.31	
26 05 33 13-0761	EA	3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	338.98	50.29
		For Work In Restricted Working Space, Add	37.72	
		For Elevated Installation >10' To 15', Add	12.57	
		For Elevated Installation >15' To 20', Add	25.15	
		For Elevated Installation >20' To 25', Add	31.44	
		For Elevated Installation >25' To 30', Add	44.01	
		For Elevated Installation >30' To 35', Add	50.30	
		For Elevated Installation >35' To 40', Add	62.87	
		For Elevated Installation >40', Add	69.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0762	EA		4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	410.99	65.47
			For Work In Restricted Working Space, Add	49.09	
			For Elevated Installation >10' To 15', Add	16.36	
			For Elevated Installation >15' To 20', Add	32.73	
			For Elevated Installation >20' To 25', Add	40.91	
			For Elevated Installation >25' To 30', Add	57.27	
			For Elevated Installation >30' To 35', Add	65.45	
			For Elevated Installation >35' To 40', Add	81.82	
			For Elevated Installation >40', Add	90.00	
26 05 33 13-0763			Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0740)		
26 05 33 13-0764	EA		1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	16.21	6.17
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 05 33 13-0765	EA		3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	19.14	0.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-0766	EA		1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	24.79	9.01
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-0767	EA		1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	30.28	10.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.18	
26 05 33 13-0768	EA		1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	33.93	11.86
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-0769	EA		2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	43.82	14.70
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.03	
26 05 33 13-0770	EA		2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	81.30	23.72
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0771	EA		3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	100.22	32.25
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.20	
26 05 33 13-0772	EA		3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut	131.43	38.43
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.82	
26 05 33 13-0773	EA		4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut.....	155.22	44.60
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.45	
26 05 33 13-0774			Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0740)		
			Note: 3-Piece coupling.		
26 05 33 13-0775	EA		1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	53.62	18.98
			For Work In Restricted Working Space, Add	14.25	
			For Elevated Installation >10' To 15', Add	4.75	
			For Elevated Installation >15' To 20', Add	9.50	
			For Elevated Installation >20' To 25', Add	11.88	
			For Elevated Installation >25' To 30', Add	16.63	
			For Elevated Installation >30' To 35', Add	19.00	
			For Elevated Installation >35' To 40', Add	23.75	
			For Elevated Installation >40', Add	26.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.25	
26 05 33 13-0776	EA		3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	60.89	21.23
			For Work In Restricted Working Space, Add	15.90	
			For Elevated Installation >10' To 15', Add	5.30	
			For Elevated Installation >15' To 20', Add	10.60	
			For Elevated Installation >20' To 25', Add	13.25	
			For Elevated Installation >25' To 30', Add	18.55	
			For Elevated Installation >30' To 35', Add	21.20	
			For Elevated Installation >35' To 40', Add	26.51	
			For Elevated Installation >40', Add	29.16	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.90	
26 05 33 13-0777	EA		1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	74.25	23.60
			For Work In Restricted Working Space, Add	17.72	
			For Elevated Installation >10' To 15', Add	5.91	
			For Elevated Installation >15' To 20', Add	11.81	
			For Elevated Installation >20' To 25', Add	14.76	
			For Elevated Installation >25' To 30', Add	20.67	
			For Elevated Installation >30' To 35', Add	23.62	
			For Elevated Installation >35' To 40', Add	29.53	
			For Elevated Installation >40', Add	32.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.72	
26 05 33 13-0778	EA		1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting	92.58	25.85
			For Work In Restricted Working Space, Add	19.39	
			For Elevated Installation >10' To 15', Add	6.46	
			For Elevated Installation >15' To 20', Add	12.92	
			For Elevated Installation >20' To 25', Add	16.16	
			For Elevated Installation >25' To 30', Add	22.62	
			For Elevated Installation >30' To 35', Add	25.85	
			For Elevated Installation >35' To 40', Add	32.31	
			For Elevated Installation >40', Add	35.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.39	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0779 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	105.79	28.23
For Work In Restricted Working Space, Add	21.21	
For Elevated Installation >10' To 15', Add	7.07	
For Elevated Installation >15' To 20', Add	14.14	
For Elevated Installation >20' To 25', Add	17.67	
For Elevated Installation >25' To 30', Add	24.74	
For Elevated Installation >30' To 35', Add	28.28	
For Elevated Installation >35' To 40', Add	35.35	
For Elevated Installation >40', Add	38.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.21	
26 05 33 13-0780 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	146.75	30.60
For Work In Restricted Working Space, Add	22.97	
For Elevated Installation >10' To 15', Add	7.66	
For Elevated Installation >15' To 20', Add	15.31	
For Elevated Installation >20' To 25', Add	19.14	
For Elevated Installation >25' To 30', Add	26.80	
For Elevated Installation >30' To 35', Add	30.62	
For Elevated Installation >35' To 40', Add	38.28	
For Elevated Installation >40', Add	42.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.97	
26 05 33 13-0781 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	245.02	37.96
For Work In Restricted Working Space, Add	28.46	
For Elevated Installation >10' To 15', Add	9.49	
For Elevated Installation >15' To 20', Add	18.98	
For Elevated Installation >20' To 25', Add	23.72	
For Elevated Installation >25' To 30', Add	33.21	
For Elevated Installation >30' To 35', Add	37.95	
For Elevated Installation >35' To 40', Add	47.44	
For Elevated Installation >40', Add	52.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-0782 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	347.56	47.44
For Work In Restricted Working Space, Add	35.58	
For Elevated Installation >10' To 15', Add	11.86	
For Elevated Installation >15' To 20', Add	23.72	
For Elevated Installation >20' To 25', Add	29.65	
For Elevated Installation >25' To 30', Add	41.51	
For Elevated Installation >30' To 35', Add	47.44	
For Elevated Installation >35' To 40', Add	59.30	
For Elevated Installation >40', Add	65.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.58	
26 05 33 13-0783 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	510.21	56.93
For Work In Restricted Working Space, Add	42.71	
For Elevated Installation >10' To 15', Add	14.24	
For Elevated Installation >15' To 20', Add	28.47	
For Elevated Installation >20' To 25', Add	35.59	
For Elevated Installation >25' To 30', Add	49.83	
For Elevated Installation >30' To 35', Add	56.95	
For Elevated Installation >35' To 40', Add	71.19	
For Elevated Installation >40', Add	78.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.71	
26 05 33 13-0784 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	589.58	61.67
For Work In Restricted Working Space, Add	46.25	
For Elevated Installation >10' To 15', Add	15.42	
For Elevated Installation >15' To 20', Add	30.83	
For Elevated Installation >20' To 25', Add	38.54	
For Elevated Installation >25' To 30', Add	53.96	
For Elevated Installation >30' To 35', Add	61.67	
For Elevated Installation >35' To 40', Add	77.09	
For Elevated Installation >40', Add	84.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.25	

26 05 33 13-0785 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0740)

26 05 33 13-0786 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	30.38	9.48
For Work In Restricted Working Space, Add	7.12	
For Elevated Installation >10' To 15', Add	2.37	
For Elevated Installation >15' To 20', Add	4.74	
For Elevated Installation >20' To 25', Add	5.93	
For Elevated Installation >25' To 30', Add	8.30	
For Elevated Installation >30' To 35', Add	9.49	
For Elevated Installation >35' To 40', Add	11.86	
For Elevated Installation >40', Add	13.05	
26 05 33 13-0787 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	33.97	10.44
For Work In Restricted Working Space, Add	7.83	
For Elevated Installation >10' To 15', Add	2.61	
For Elevated Installation >15' To 20', Add	5.22	
For Elevated Installation >20' To 25', Add	6.52	
For Elevated Installation >25' To 30', Add	9.13	
For Elevated Installation >30' To 35', Add	10.44	
For Elevated Installation >35' To 40', Add	13.05	
For Elevated Installation >40', Add	14.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0788	EA		1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	39.04	11.86
			For Work In Restricted Working Space, Add	8.90	
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.42	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
26 05 33 13-0789	EA		1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	44.41	12.81
			For Work In Restricted Working Space, Add	9.61	
			For Elevated Installation >10' To 15', Add	3.20	
			For Elevated Installation >15' To 20', Add	6.40	
			For Elevated Installation >20' To 25', Add	8.01	
			For Elevated Installation >25' To 30', Add	11.21	
			For Elevated Installation >30' To 35', Add	12.81	
			For Elevated Installation >35' To 40', Add	16.01	
			For Elevated Installation >40', Add	17.61	
26 05 33 13-0790	EA		1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	52.86	14.23
			For Work In Restricted Working Space, Add	10.68	
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.46	
			For Elevated Installation >30' To 35', Add	14.24	
			For Elevated Installation >35' To 40', Add	17.80	
			For Elevated Installation >40', Add	19.57	
26 05 33 13-0791	EA		2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	64.66	15.66
			For Work In Restricted Working Space, Add	11.74	
			For Elevated Installation >10' To 15', Add	3.91	
			For Elevated Installation >15' To 20', Add	7.83	
			For Elevated Installation >20' To 25', Add	9.79	
			For Elevated Installation >25' To 30', Add	13.70	
			For Elevated Installation >30' To 35', Add	15.66	
			For Elevated Installation >35' To 40', Add	19.57	
			For Elevated Installation >40', Add	21.53	
26 05 33 13-0792	EA		2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	88.35	18.98
			For Work In Restricted Working Space, Add	14.23	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
26 05 33 13-0793	EA		3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	109.22	23.72
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
26 05 33 13-0794	EA		3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	131.22	28.46
			For Work In Restricted Working Space, Add	21.35	
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.91	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.14	
26 05 33 13-0795	EA		4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	148.41	30.84
			For Work In Restricted Working Space, Add	23.13	
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	

26 05 33 13-0796 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0740)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0797	EA		1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	26.50	9.48
			<i>For Work In Restricted Working Space, Add</i>	7.12	
			<i>For Elevated Installation >10' To 15', Add</i>	2.37	
			<i>For Elevated Installation >15' To 20', Add</i>	4.74	
			<i>For Elevated Installation >20' To 25', Add</i>	5.93	
			<i>For Elevated Installation >25' To 30', Add</i>	8.30	
			<i>For Elevated Installation >30' To 35', Add</i>	9.49	
			<i>For Elevated Installation >35' To 40', Add</i>	11.86	
			<i>For Elevated Installation >40', Add</i>	13.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.12	
26 05 33 13-0798	EA		3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	33.82	11.86
			<i>For Work In Restricted Working Space, Add</i>	8.90	
			<i>For Elevated Installation >10' To 15', Add</i>	2.97	
			<i>For Elevated Installation >15' To 20', Add</i>	5.93	
			<i>For Elevated Installation >20' To 25', Add</i>	7.41	
			<i>For Elevated Installation >25' To 30', Add</i>	10.38	
			<i>For Elevated Installation >30' To 35', Add</i>	11.86	
			<i>For Elevated Installation >35' To 40', Add</i>	14.83	
			<i>For Elevated Installation >40', Add</i>	16.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.90	
26 05 33 13-0799	EA		1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	41.75	14.23
			<i>For Work In Restricted Working Space, Add</i>	10.68	
			<i>For Elevated Installation >10' To 15', Add</i>	3.56	
			<i>For Elevated Installation >15' To 20', Add</i>	7.12	
			<i>For Elevated Installation >20' To 25', Add</i>	8.90	
			<i>For Elevated Installation >25' To 30', Add</i>	12.46	
			<i>For Elevated Installation >30' To 35', Add</i>	14.24	
			<i>For Elevated Installation >35' To 40', Add</i>	17.80	
			<i>For Elevated Installation >40', Add</i>	19.57	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.68	
26 05 33 13-0800	EA		1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	50.23	16.61
			<i>For Work In Restricted Working Space, Add</i>	12.46	
			<i>For Elevated Installation >10' To 15', Add</i>	4.15	
			<i>For Elevated Installation >15' To 20', Add</i>	8.30	
			<i>For Elevated Installation >20' To 25', Add</i>	10.38	
			<i>For Elevated Installation >25' To 30', Add</i>	14.53	
			<i>For Elevated Installation >30' To 35', Add</i>	16.61	
			<i>For Elevated Installation >35' To 40', Add</i>	20.76	
			<i>For Elevated Installation >40', Add</i>	22.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.46	
26 05 33 13-0801	EA		1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	58.66	18.98
			<i>For Work In Restricted Working Space, Add</i>	14.23	
			<i>For Elevated Installation >10' To 15', Add</i>	4.74	
			<i>For Elevated Installation >15' To 20', Add</i>	9.49	
			<i>For Elevated Installation >20' To 25', Add</i>	11.86	
			<i>For Elevated Installation >25' To 30', Add</i>	16.60	
			<i>For Elevated Installation >30' To 35', Add</i>	18.98	
			<i>For Elevated Installation >35' To 40', Add</i>	23.72	
			<i>For Elevated Installation >40', Add</i>	26.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.23	
26 05 33 13-0802	EA		2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	69.58	21.35
			<i>For Work In Restricted Working Space, Add</i>	16.01	
			<i>For Elevated Installation >10' To 15', Add</i>	5.34	
			<i>For Elevated Installation >15' To 20', Add</i>	10.67	
			<i>For Elevated Installation >20' To 25', Add</i>	13.34	
			<i>For Elevated Installation >25' To 30', Add</i>	18.68	
			<i>For Elevated Installation >30' To 35', Add</i>	21.34	
			<i>For Elevated Installation >35' To 40', Add</i>	26.68	
			<i>For Elevated Installation >40', Add</i>	29.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.01	
26 05 33 13-0803	EA		2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	86.48	23.72
			<i>For Work In Restricted Working Space, Add</i>	17.79	
			<i>For Elevated Installation >10' To 15', Add</i>	5.93	
			<i>For Elevated Installation >15' To 20', Add</i>	11.86	
			<i>For Elevated Installation >20' To 25', Add</i>	14.83	
			<i>For Elevated Installation >25' To 30', Add</i>	20.76	
			<i>For Elevated Installation >30' To 35', Add</i>	23.72	
			<i>For Elevated Installation >35' To 40', Add</i>	29.65	
			<i>For Elevated Installation >40', Add</i>	32.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.79	
26 05 33 13-0804	EA		3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	101.83	26.09
			<i>For Work In Restricted Working Space, Add</i>	19.57	
			<i>For Elevated Installation >10' To 15', Add</i>	6.52	
			<i>For Elevated Installation >15' To 20', Add</i>	13.05	
			<i>For Elevated Installation >20' To 25', Add</i>	16.31	
			<i>For Elevated Installation >25' To 30', Add</i>	22.83	
			<i>For Elevated Installation >30' To 35', Add</i>	26.09	
			<i>For Elevated Installation >35' To 40', Add</i>	32.62	
			<i>For Elevated Installation >40', Add</i>	35.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.57	



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
26 05 33 13-0805	EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		124.53 23.13 7.71 15.42 19.27 26.98 30.84 38.55 42.40 23.13	30.84
26 05 33 13-0806	EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		142.88 24.90 8.30 16.60 20.75 29.05 33.20 41.51 45.66 24.90	33.21
26 05 33 13-0807 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0740)				
26 05 33 13-0808	EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add		167.56 14.24 4.75 9.49 11.86 16.61 18.98 23.73 26.10	18.98
26 05 33 13-0809	EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add		185.49 16.01 5.34 10.67 13.34 18.68 21.35 26.69 29.35	21.35
26 05 33 13-0810	EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add		206.15 17.79 5.93 11.86 14.83 20.76 23.72 29.66 32.62	23.72
26 05 33 13-0811	EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add		248.40 19.57 6.52 13.05 16.31 22.63 26.09 32.62 35.88	26.09
26 05 33 13-0812	EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add		303.49 21.35 7.12 14.23 17.79 24.90 28.46 35.58 39.13	28.46
26 05 33 13-0813	EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add		397.48 23.12 7.71 15.42 19.27 26.98 30.83 38.54 42.39	30.84
26 05 33 13-0814	EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add		598.15 28.46 9.49 18.98 23.72 33.21 37.95 47.44 52.18	37.96

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0815	EA		3" Intermediate Metal Conduit (IMC) Expansion Fitting	719.54	47.44
			For Work In Restricted Working Space, Add	35.58	
			For Elevated Installation >10' To 15', Add	11.86	
			For Elevated Installation >15' To 20', Add	23.72	
			For Elevated Installation >20' To 25', Add	29.65	
			For Elevated Installation >25' To 30', Add	41.51	
			For Elevated Installation >30' To 35', Add	47.44	
			For Elevated Installation >35' To 40', Add	59.30	
			For Elevated Installation >40', Add	65.23	
26 05 33 13-0816	EA		3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	1,000.85	56.93
			For Work In Restricted Working Space, Add	42.70	
			For Elevated Installation >10' To 15', Add	14.23	
			For Elevated Installation >15' To 20', Add	28.47	
			For Elevated Installation >20' To 25', Add	35.59	
			For Elevated Installation >25' To 30', Add	49.82	
			For Elevated Installation >30' To 35', Add	56.94	
			For Elevated Installation >35' To 40', Add	71.17	
			For Elevated Installation >40', Add	78.29	
26 05 33 13-0817	EA		4" Intermediate Metal Conduit (IMC) Expansion Fitting	1,156.51	61.67
			For Work In Restricted Working Space, Add	46.25	
			For Elevated Installation >10' To 15', Add	15.42	
			For Elevated Installation >15' To 20', Add	30.83	
			For Elevated Installation >20' To 25', Add	38.54	
			For Elevated Installation >25' To 30', Add	53.96	
			For Elevated Installation >30' To 35', Add	61.67	
			For Elevated Installation >35' To 40', Add	77.09	
			For Elevated Installation >40', Add	84.79	
26 05 33 13-0818			Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0740)		
26 05 33 13-0819	EA		1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	105.52	29.65
			For Work In Restricted Working Space, Add	17.79	
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-0820	EA		3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	125.44	35.58
			For Work In Restricted Working Space, Add	21.35	
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.91	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.35	
26 05 33 13-0821	EA		1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	152.79	41.51
			For Work In Restricted Working Space, Add	24.91	
			For Elevated Installation >10' To 15', Add	8.30	
			For Elevated Installation >15' To 20', Add	16.61	
			For Elevated Installation >20' To 25', Add	20.76	
			For Elevated Installation >25' To 30', Add	29.06	
			For Elevated Installation >30' To 35', Add	33.21	
			For Elevated Installation >35' To 40', Add	41.52	
			For Elevated Installation >40', Add	45.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33 13-0822	EA		1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	179.60	47.44
			For Work In Restricted Working Space, Add	28.46	
			For Elevated Installation >10' To 15', Add	9.49	
			For Elevated Installation >15' To 20', Add	18.98	
			For Elevated Installation >20' To 25', Add	23.72	
			For Elevated Installation >25' To 30', Add	33.21	
			For Elevated Installation >30' To 35', Add	37.95	
			For Elevated Installation >35' To 40', Add	47.44	
			For Elevated Installation >40', Add	52.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-0823	EA		1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	234.29	53.37
			For Work In Restricted Working Space, Add	32.02	
			For Elevated Installation >10' To 15', Add	10.67	
			For Elevated Installation >15' To 20', Add	21.35	
			For Elevated Installation >20' To 25', Add	26.69	
			For Elevated Installation >25' To 30', Add	37.36	
			For Elevated Installation >30' To 35', Add	42.70	
			For Elevated Installation >35' To 40', Add	53.37	
			For Elevated Installation >40', Add	58.71	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0824	EA		2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	283.85	59.30
			For Work In Restricted Working Space, Add	35.58	
			For Elevated Installation >10' To 15', Add	11.86	
			For Elevated Installation >15' To 20', Add	23.72	
			For Elevated Installation >20' To 25', Add	29.65	
			For Elevated Installation >25' To 30', Add	41.51	
			For Elevated Installation >30' To 35', Add	47.44	
			For Elevated Installation >35' To 40', Add	59.30	
			For Elevated Installation >40', Add	65.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.58	
26 05 33 13-0825	EA		2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	399.08	71.16
			For Work In Restricted Working Space, Add	42.70	
			For Elevated Installation >10' To 15', Add	14.23	
			For Elevated Installation >15' To 20', Add	28.47	
			For Elevated Installation >20' To 25', Add	35.58	
			For Elevated Installation >25' To 30', Add	49.82	
			For Elevated Installation >30' To 35', Add	56.93	
			For Elevated Installation >35' To 40', Add	71.17	
			For Elevated Installation >40', Add	78.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.70	
26 05 33 13-0826	EA		3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	479.67	83.03
			For Work In Restricted Working Space, Add	49.81	
			For Elevated Installation >10' To 15', Add	16.60	
			For Elevated Installation >15' To 20', Add	33.21	
			For Elevated Installation >20' To 25', Add	41.51	
			For Elevated Installation >25' To 30', Add	58.11	
			For Elevated Installation >30' To 35', Add	66.42	
			For Elevated Installation >35' To 40', Add	83.02	
			For Elevated Installation >40', Add	91.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.81	
26 05 33 13-0827	EA		3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,094.31	94.88
			For Work In Restricted Working Space, Add	56.93	
			For Elevated Installation >10' To 15', Add	18.98	
			For Elevated Installation >15' To 20', Add	37.95	
			For Elevated Installation >20' To 25', Add	47.44	
			For Elevated Installation >25' To 30', Add	66.42	
			For Elevated Installation >30' To 35', Add	75.91	
			For Elevated Installation >35' To 40', Add	94.89	
			For Elevated Installation >40', Add	104.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.93	
26 05 33 13-0828	EA		4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal	1,260.35	106.74
			For Work In Restricted Working Space, Add	64.04	
			For Elevated Installation >10' To 15', Add	21.35	
			For Elevated Installation >15' To 20', Add	42.70	
			For Elevated Installation >20' To 25', Add	53.37	
			For Elevated Installation >25' To 30', Add	74.72	
			For Elevated Installation >30' To 35', Add	85.39	
			For Elevated Installation >35' To 40', Add	106.74	
			For Elevated Installation >40', Add	117.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.04	
26 05 33 13-0829			Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0740)		
26 05 33 13-0830	EA		1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	15.81	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
26 05 33 13-0831	EA		3/4" Intermediate Metal Conduit (IMC) Threaded Coupling	22.08	8.07
			For Work In Restricted Working Space, Add	6.05	
			For Elevated Installation >10' To 15', Add	2.02	
			For Elevated Installation >15' To 20', Add	4.03	
			For Elevated Installation >20' To 25', Add	5.04	
			For Elevated Installation >25' To 30', Add	7.06	
			For Elevated Installation >30' To 35', Add	8.07	
			For Elevated Installation >35' To 40', Add	10.09	
			For Elevated Installation >40', Add	11.09	
26 05 33 13-0832	EA		1" Intermediate Metal Conduit (IMC) Threaded Coupling	28.92	10.44
			For Work In Restricted Working Space, Add	7.82	
			For Elevated Installation >10' To 15', Add	2.61	
			For Elevated Installation >15' To 20', Add	5.21	
			For Elevated Installation >20' To 25', Add	6.52	
			For Elevated Installation >25' To 30', Add	9.12	
			For Elevated Installation >30' To 35', Add	10.43	
			For Elevated Installation >35' To 40', Add	13.04	
			For Elevated Installation >40', Add	14.34	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0833 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	33.23	11.86
For Work In Restricted Working Space, Add	8.90	
For Elevated Installation >10' To 15', Add	2.97	
For Elevated Installation >15' To 20', Add	5.93	
For Elevated Installation >20' To 25', Add	7.42	
For Elevated Installation >25' To 30', Add	10.38	
For Elevated Installation >30' To 35', Add	11.86	
For Elevated Installation >35' To 40', Add	14.83	
For Elevated Installation >40', Add	16.31	
26 05 33 13-0834 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	40.07	14.23
For Work In Restricted Working Space, Add	10.67	
For Elevated Installation >10' To 15', Add	3.56	
For Elevated Installation >15' To 20', Add	7.11	
For Elevated Installation >20' To 25', Add	8.89	
For Elevated Installation >25' To 30', Add	12.45	
For Elevated Installation >30' To 35', Add	14.23	
For Elevated Installation >35' To 40', Add	17.79	
For Elevated Installation >40', Add	19.56	
26 05 33 13-0835 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	46.27	16.13
For Work In Restricted Working Space, Add	12.10	
For Elevated Installation >10' To 15', Add	4.03	
For Elevated Installation >15' To 20', Add	8.07	
For Elevated Installation >20' To 25', Add	10.09	
For Elevated Installation >25' To 30', Add	14.12	
For Elevated Installation >30' To 35', Add	16.14	
For Elevated Installation >35' To 40', Add	20.17	
For Elevated Installation >40', Add	22.19	
26 05 33 13-0836 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	58.20	18.02
For Work In Restricted Working Space, Add	13.52	
For Elevated Installation >10' To 15', Add	4.51	
For Elevated Installation >15' To 20', Add	9.01	
For Elevated Installation >20' To 25', Add	11.27	
For Elevated Installation >25' To 30', Add	15.77	
For Elevated Installation >30' To 35', Add	18.02	
For Elevated Installation >35' To 40', Add	22.53	
For Elevated Installation >40', Add	24.78	
26 05 33 13-0837 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	68.94	20.40
For Work In Restricted Working Space, Add	15.30	
For Elevated Installation >10' To 15', Add	5.10	
For Elevated Installation >15' To 20', Add	10.20	
For Elevated Installation >20' To 25', Add	12.75	
For Elevated Installation >25' To 30', Add	17.85	
For Elevated Installation >30' To 35', Add	20.40	
For Elevated Installation >35' To 40', Add	25.50	
For Elevated Installation >40', Add	28.05	
26 05 33 13-0838 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	79.74	22.30
For Work In Restricted Working Space, Add	16.73	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.15	
For Elevated Installation >20' To 25', Add	13.94	
For Elevated Installation >25' To 30', Add	19.52	
For Elevated Installation >30' To 35', Add	22.30	
For Elevated Installation >35' To 40', Add	27.88	
For Elevated Installation >40', Add	30.67	
26 05 33 13-0839 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	83.45	23.72
For Work In Restricted Working Space, Add	17.78	
For Elevated Installation >10' To 15', Add	5.93	
For Elevated Installation >15' To 20', Add	11.86	
For Elevated Installation >20' To 25', Add	14.82	
For Elevated Installation >25' To 30', Add	20.75	
For Elevated Installation >30' To 35', Add	23.71	
For Elevated Installation >35' To 40', Add	29.64	
For Elevated Installation >40', Add	32.60	
26 05 33 13-0840 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0740)		
26 05 33 13-0841 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	7.69	2.37
For Work In Restricted Working Space, Add	1.78	
For Elevated Installation >10' To 15', Add	0.59	
For Elevated Installation >15' To 20', Add	1.19	
For Elevated Installation >20' To 25', Add	1.48	
For Elevated Installation >25' To 30', Add	2.08	
For Elevated Installation >30' To 35', Add	2.37	
For Elevated Installation >35' To 40', Add	2.97	
For Elevated Installation >40', Add	3.26	
26 05 33 13-0842 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	8.71	2.37
For Work In Restricted Working Space, Add	1.78	
For Elevated Installation >10' To 15', Add	0.59	
For Elevated Installation >15' To 20', Add	1.19	
For Elevated Installation >20' To 25', Add	1.48	
For Elevated Installation >25' To 30', Add	2.08	
For Elevated Installation >30' To 35', Add	2.37	
For Elevated Installation >35' To 40', Add	2.97	
For Elevated Installation >40', Add	3.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0843			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0059) Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0844			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0843) Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".		
26 05 33 13-0845	LF		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	14.25	3.32
			For >250 To 500, Deduct	-0.51	
			For >500 To 1,000, Deduct	-0.86	
			For >1,000, Deduct	-1.22	
			For Elevated Installation >10' To 15', Add	0.83	
			For Elevated Installation >15' To 20', Add	1.66	
			For Elevated Installation >20' To 25', Add	2.08	
			For Elevated Installation >25' To 30', Add	2.91	
			For Elevated Installation >30' To 35', Add	3.32	
			For Elevated Installation >35' To 40', Add	4.15	
			For Elevated Installation >40', Add	4.57	
			For Work In Restricted Working Space, Add	2.49	
26 05 33 13-0846	LF		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	16.37	3.79
			For >250 To 500, Deduct	-0.58	
			For >500 To 1,000, Deduct	-0.99	
			For >1,000, Deduct	-1.40	
			For Elevated Installation >10' To 15', Add	0.95	
			For Elevated Installation >15' To 20', Add	1.90	
			For Elevated Installation >20' To 25', Add	2.37	
			For Elevated Installation >25' To 30', Add	3.32	
			For Elevated Installation >30' To 35', Add	3.79	
			For Elevated Installation >35' To 40', Add	4.74	
			For Elevated Installation >40', Add	5.21	
			For Work In Restricted Working Space, Add	2.84	
26 05 33 13-0847	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	20.78	4.75
			For >250 To 500, Deduct	-0.74	
			For >500 To 1,000, Deduct	-1.26	
			For >1,000, Deduct	-1.78	
			For Elevated Installation >10' To 15', Add	1.19	
			For Elevated Installation >15' To 20', Add	2.37	
			For Elevated Installation >20' To 25', Add	2.97	
			For Elevated Installation >25' To 30', Add	4.15	
			For Elevated Installation >30' To 35', Add	4.74	
			For Elevated Installation >35' To 40', Add	5.93	
			For Elevated Installation >40', Add	6.52	
			For Work In Restricted Working Space, Add	3.56	
26 05 33 13-0848	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	25.54	5.69
			For >250 To 500, Deduct	-0.92	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.20	
			For Elevated Installation >10' To 15', Add	1.42	
			For Elevated Installation >15' To 20', Add	2.85	
			For Elevated Installation >20' To 25', Add	3.56	
			For Elevated Installation >25' To 30', Add	4.98	
			For Elevated Installation >30' To 35', Add	5.69	
			For Elevated Installation >35' To 40', Add	7.12	
			For Elevated Installation >40', Add	7.83	
			For Work In Restricted Working Space, Add	4.27	
26 05 33 13-0849	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	31.54	7.12
			For >250 To 500, Deduct	-1.13	
			For >500 To 1,000, Deduct	-1.92	
			For >1,000, Deduct	-2.71	
			For Elevated Installation >10' To 15', Add	1.78	
			For Elevated Installation >15' To 20', Add	3.56	
			For Elevated Installation >20' To 25', Add	4.45	
			For Elevated Installation >25' To 30', Add	6.23	
			For Elevated Installation >30' To 35', Add	7.12	
			For Elevated Installation >35' To 40', Add	8.90	
			For Elevated Installation >40', Add	9.78	
			For Work In Restricted Working Space, Add	5.34	
26 05 33 13-0850	LF		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	39.27	8.54
			For >250 To 500, Deduct	-1.43	
			For >500 To 1,000, Deduct	-2.41	
			For >1,000, Deduct	-3.39	
			For Elevated Installation >10' To 15', Add	2.14	
			For Elevated Installation >15' To 20', Add	4.27	
			For Elevated Installation >20' To 25', Add	5.34	
			For Elevated Installation >25' To 30', Add	7.47	
			For Elevated Installation >30' To 35', Add	8.54	
			For Elevated Installation >35' To 40', Add	10.68	
			For Elevated Installation >40', Add	11.74	
			For Work In Restricted Working Space, Add	6.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-0851	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	52.09	9.97
		For >250 To 500, Deduct	-1.98	
		For >500 To 1,000, Deduct	-3.28	
		For >1,000, Deduct	-4.59	
		For Elevated Installation >10' To 15', Add	2.49	
		For Elevated Installation >15' To 20', Add	4.98	
		For Elevated Installation >20' To 25', Add	6.23	
		For Elevated Installation >25' To 30', Add	8.72	
		For Elevated Installation >30' To 35', Add	9.96	
		For Elevated Installation >35' To 40', Add	12.46	
		For Elevated Installation >40', Add	13.70	
		For Work In Restricted Working Space, Add	7.47	
26 05 33 13-0852	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	65.11	12.33
		For >250 To 500, Deduct	-2.48	
		For >500 To 1,000, Deduct	-4.11	
		For >1,000, Deduct	-5.74	
		For Elevated Installation >10' To 15', Add	3.08	
		For Elevated Installation >15' To 20', Add	6.17	
		For Elevated Installation >20' To 25', Add	7.71	
		For Elevated Installation >25' To 30', Add	10.79	
		For Elevated Installation >30' To 35', Add	12.34	
		For Elevated Installation >35' To 40', Add	15.42	
		For Elevated Installation >40', Add	16.96	
		For Work In Restricted Working Space, Add	9.25	
26 05 33 13-0853	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	79.88	15.18
		For >250 To 500, Deduct	-3.05	
		For >500 To 1,000, Deduct	-5.04	
		For >1,000, Deduct	-7.04	
		For Elevated Installation >10' To 15', Add	3.80	
		For Elevated Installation >15' To 20', Add	7.59	
		For Elevated Installation >20' To 25', Add	9.49	
		For Elevated Installation >25' To 30', Add	13.29	
		For Elevated Installation >30' To 35', Add	15.18	
		For Elevated Installation >35' To 40', Add	18.98	
		For Elevated Installation >40', Add	20.88	
		For Work In Restricted Working Space, Add	11.39	
26 05 33 13-0854	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	94.49	18.02
		For >250 To 500, Deduct	-3.60	
		For >500 To 1,000, Deduct	-5.96	
		For >1,000, Deduct	-8.32	
		For Elevated Installation >10' To 15', Add	4.51	
		For Elevated Installation >15' To 20', Add	9.01	
		For Elevated Installation >20' To 25', Add	11.27	
		For Elevated Installation >25' To 30', Add	15.77	
		For Elevated Installation >30' To 35', Add	18.03	
		For Elevated Installation >35' To 40', Add	22.54	
		For Elevated Installation >40', Add	24.79	
		For Work In Restricted Working Space, Add	13.52	
26 05 33 13-0855	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	140.95	21.35
		For >250 To 500, Deduct	-5.71	
		For >500 To 1,000, Deduct	-9.24	
		For >1,000, Deduct	-12.76	
		For Elevated Installation >10' To 15', Add	5.34	
		For Elevated Installation >15' To 20', Add	10.67	
		For Elevated Installation >20' To 25', Add	13.34	
		For Elevated Installation >25' To 30', Add	18.68	
		For Elevated Installation >30' To 35', Add	21.35	
		For Elevated Installation >35' To 40', Add	26.69	
		For Elevated Installation >40', Add	29.35	
		For Work In Restricted Working Space, Add	16.01	
26 05 33 13-0856	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	191.17	28.46
		For >250 To 500, Deduct	-7.78	
		For >500 To 1,000, Deduct	-12.56	
		For >1,000, Deduct	-17.34	
		For Elevated Installation >10' To 15', Add	7.12	
		For Elevated Installation >15' To 20', Add	14.23	
		For Elevated Installation >20' To 25', Add	17.79	
		For Elevated Installation >25' To 30', Add	24.91	
		For Elevated Installation >30' To 35', Add	28.46	
		For Elevated Installation >35' To 40', Add	35.58	
		For Elevated Installation >40', Add	39.14	
		For Work In Restricted Working Space, Add	21.35	
26 05 33 13-0857		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings (26 05 33 13-0843)		
26 05 33 13-0858	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	20.51	7.12
		For Elevated Installation >10' To 15', Add	1.42	
		For Elevated Installation >15' To 20', Add	2.85	
		For Elevated Installation >20' To 25', Add	3.56	
		For Elevated Installation >25' To 30', Add	4.98	
		For Elevated Installation >30' To 35', Add	5.69	
		For Elevated Installation >35' To 40', Add	7.12	
		For Elevated Installation >40', Add	7.83	
		For Work In Restricted Working Space, Add	4.27	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0859	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	26.74		10.09
	For Elevated Installation >10' To 15', Add	2.02		
	For Elevated Installation >15' To 20', Add	4.03		
	For Elevated Installation >20' To 25', Add	5.04		
	For Elevated Installation >25' To 30', Add	7.06		
	For Elevated Installation >30' To 35', Add	8.06		
	For Elevated Installation >35' To 40', Add	10.08		
	For Elevated Installation >40', Add	11.09		
	For Work In Restricted Working Space, Add	6.05		
26 05 33 13-0860	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	34.63		13.05
	For Elevated Installation >10' To 15', Add	2.61		
	For Elevated Installation >15' To 20', Add	5.22		
	For Elevated Installation >20' To 25', Add	6.52		
	For Elevated Installation >25' To 30', Add	9.13		
	For Elevated Installation >30' To 35', Add	10.44		
	For Elevated Installation >35' To 40', Add	13.05		
	For Elevated Installation >40', Add	14.35		
	For Work In Restricted Working Space, Add	7.83		
26 05 33 13-0861	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	39.62		14.82
	For Elevated Installation >10' To 15', Add	2.97		
	For Elevated Installation >15' To 20', Add	5.93		
	For Elevated Installation >20' To 25', Add	7.41		
	For Elevated Installation >25' To 30', Add	10.38		
	For Elevated Installation >30' To 35', Add	11.86		
	For Elevated Installation >35' To 40', Add	14.83		
	For Elevated Installation >40', Add	16.31		
	For Work In Restricted Working Space, Add	8.90		
26 05 33 13-0862	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	47.43		17.79
	For Elevated Installation >10' To 15', Add	3.56		
	For Elevated Installation >15' To 20', Add	7.12		
	For Elevated Installation >20' To 25', Add	8.90		
	For Elevated Installation >25' To 30', Add	12.45		
	For Elevated Installation >30' To 35', Add	14.23		
	For Elevated Installation >35' To 40', Add	17.79		
	For Elevated Installation >40', Add	19.57		
	For Work In Restricted Working Space, Add	10.67		
26 05 33 13-0863	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	57.66		20.16
	For Elevated Installation >10' To 15', Add	4.03		
	For Elevated Installation >15' To 20', Add	8.06		
	For Elevated Installation >20' To 25', Add	10.08		
	For Elevated Installation >25' To 30', Add	14.11		
	For Elevated Installation >30' To 35', Add	16.13		
	For Elevated Installation >35' To 40', Add	20.16		
	For Elevated Installation >40', Add	22.18		
	For Work In Restricted Working Space, Add	12.10		
26 05 33 13-0864	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	87.98		20.16
	For Elevated Installation >10' To 15', Add	4.51		
	For Elevated Installation >15' To 20', Add	9.01		
	For Elevated Installation >20' To 25', Add	11.27		
	For Elevated Installation >25' To 30', Add	15.77		
	For Elevated Installation >30' To 35', Add	18.03		
	For Elevated Installation >35' To 40', Add	22.54		
	For Elevated Installation >40', Add	24.79		
	For Work In Restricted Working Space, Add	13.52		
26 05 33 13-0865	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	103.11		27.87
	For Elevated Installation >10' To 15', Add	5.10		
	For Elevated Installation >15' To 20', Add	10.20		
	For Elevated Installation >20' To 25', Add	12.75		
	For Elevated Installation >25' To 30', Add	17.85		
	For Elevated Installation >30' To 35', Add	20.40		
	For Elevated Installation >35' To 40', Add	25.50		
	For Elevated Installation >40', Add	28.05		
	For Work In Restricted Working Space, Add	15.30		
26 05 33 13-0866	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	122.60		27.87
	For Elevated Installation >10' To 15', Add	5.57		
	For Elevated Installation >15' To 20', Add	11.15		
	For Elevated Installation >20' To 25', Add	13.94		
	For Elevated Installation >25' To 30', Add	19.51		
	For Elevated Installation >30' To 35', Add	22.30		
	For Elevated Installation >35' To 40', Add	27.87		
	For Elevated Installation >40', Add	30.66		
	For Work In Restricted Working Space, Add	16.72		
26 05 33 13-0867	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	137.47		29.65
	For Elevated Installation >10' To 15', Add	5.93		
	For Elevated Installation >15' To 20', Add	11.86		
	For Elevated Installation >20' To 25', Add	14.83		
	For Elevated Installation >25' To 30', Add	20.76		
	For Elevated Installation >30' To 35', Add	23.72		
	For Elevated Installation >35' To 40', Add	29.65		
	For Elevated Installation >40', Add	32.62		
	For Work In Restricted Working Space, Add	17.79		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0868 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling 325.88		35.58
For Elevated Installation >10' To 15', Add	7.12	
For Elevated Installation >15' To 20', Add	14.23	
For Elevated Installation >20' To 25', Add	17.79	
For Elevated Installation >25' To 30', Add	24.91	
For Elevated Installation >30' To 35', Add	28.46	
For Elevated Installation >35' To 40', Add	35.58	
For Elevated Installation >40', Add	39.14	
For Work In Restricted Working Space, Add	21.35	
26 05 33 13-0869 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling 367.57		41.51
For Elevated Installation >10' To 15', Add	8.30	
For Elevated Installation >15' To 20', Add	16.61	
For Elevated Installation >20' To 25', Add	20.76	
For Elevated Installation >25' To 30', Add	29.06	
For Elevated Installation >30' To 35', Add	33.21	
For Elevated Installation >35' To 40', Add	41.52	
For Elevated Installation >40', Add	45.67	
For Work In Restricted Working Space, Add	24.91	
26 05 33 13-0870 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel		
(RGS) Standard Radius Elbows (26 05 33 13-0843)		
Note: 90, 45, or 30-degree.		
26 05 33 13-0871 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 60.56		19.27
For Elevated Installation >10' To 15', Add	3.86	
For Elevated Installation >15' To 20', Add	7.71	
For Elevated Installation >20' To 25', Add	9.64	
For Elevated Installation >25' To 30', Add	13.49	
For Elevated Installation >30' To 35', Add	15.42	
For Elevated Installation >35' To 40', Add	19.28	
For Elevated Installation >40', Add	21.20	
For Work In Restricted Working Space, Add	11.57	
26 05 33 13-0872 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 70.65		23.89
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.29	
For Work In Restricted Working Space, Add	14.34	
26 05 33 13-0873 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 84.80		29.29
For Elevated Installation >10' To 15', Add	5.86	
For Elevated Installation >15' To 20', Add	11.72	
For Elevated Installation >20' To 25', Add	14.65	
For Elevated Installation >25' To 30', Add	20.51	
For Elevated Installation >30' To 35', Add	23.44	
For Elevated Installation >35' To 40', Add	29.30	
For Elevated Installation >40', Add	32.22	
For Work In Restricted Working Space, Add	17.58	
26 05 33 13-0874 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 100.05		33.92
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.14	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0875 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 116.67		38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	
26 05 33 13-0876 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 140.04		42.40
For Elevated Installation >10' To 15', Add	8.48	
For Elevated Installation >15' To 20', Add	16.96	
For Elevated Installation >20' To 25', Add	21.20	
For Elevated Installation >25' To 30', Add	29.68	
For Elevated Installation >30' To 35', Add	33.92	
For Elevated Installation >35' To 40', Add	42.40	
For Elevated Installation >40', Add	46.64	
For Work In Restricted Working Space, Add	25.44	
26 05 33 13-0877 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow 210.46		53.19
For Elevated Installation >10' To 15', Add	10.64	
For Elevated Installation >15' To 20', Add	21.28	
For Elevated Installation >20' To 25', Add	26.60	
For Elevated Installation >25' To 30', Add	37.24	
For Elevated Installation >30' To 35', Add	42.56	
For Elevated Installation >35' To 40', Add	53.20	
For Elevated Installation >40', Add	58.51	
For Work In Restricted Working Space, Add	31.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0878	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	311.25	72.47
			For Elevated Installation >10' To 15', Add	14.49	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.47	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.48	
26 05 33 13-0879	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	381.65	81.72
			For Elevated Installation >10' To 15', Add	16.34	
			For Elevated Installation >15' To 20', Add	32.69	
			For Elevated Installation >20' To 25', Add	40.86	
			For Elevated Installation >25' To 30', Add	57.20	
			For Elevated Installation >30' To 35', Add	65.37	
			For Elevated Installation >35' To 40', Add	81.72	
			For Elevated Installation >40', Add	89.89	
			For Work In Restricted Working Space, Add	49.03	
26 05 33 13-0880	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	443.44	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.11	
			For Elevated Installation >35' To 40', Add	106.39	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
26 05 33 13-0881	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	902.80	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
26 05 33 13-0882	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,414.66	260.57
			For Elevated Installation >10' To 15', Add	52.11	
			For Elevated Installation >15' To 20', Add	104.23	
			For Elevated Installation >20' To 25', Add	130.28	
			For Elevated Installation >25' To 30', Add	182.40	
			For Elevated Installation >30' To 35', Add	208.45	
			For Elevated Installation >35' To 40', Add	260.57	
			For Elevated Installation >40', Add	286.62	
			For Work In Restricted Working Space, Add	156.34	
26 05 33 13-0883			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0884	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	136.68	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
26 05 33 13-0885	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	154.22	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0886	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	175.98	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	
26 05 33 13-0887	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	208.47	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0888	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	287.92 10.64 21.28 26.60 37.24 42.56 53.20 58.51 31.92	53.19
26 05 33 13-0889 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows (26 05 33 13-0843)				
26 05 33 13-0890	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	150.72 5.86 11.72 14.65 20.51 23.44 29.30 32.22 17.58	29.29
26 05 33 13-0891	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	177.41 6.78 13.57 16.96 23.74 27.14 33.92 37.31 20.35	33.92
26 05 33 13-0892	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	192.60 7.71 15.42 19.27 26.98 30.84 38.55 42.40 23.13	38.55
26 05 33 13-0893	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	244.73 8.48 16.96 21.20 29.68 33.92 42.40 46.64 25.44	42.40
26 05 33 13-0894	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	322.88 10.64 21.28 26.60 37.24 42.56 53.20 58.51 31.92	53.19
26 05 33 13-0895	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	414.91 14.49 28.99 36.24 50.73 57.98 72.47 79.72 43.48	72.47
26 05 33 13-0896 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0843)				
26 05 33 13-0897	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	167.49 5.86 11.72 14.65 20.51 23.44 29.30 32.22 17.58	29.29



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0898	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	189.48	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0899	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	213.93	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	
26 05 33 13-0900	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	256.75	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-0901	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	363.04	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.92	
26 05 33 13-0902	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	462.07	72.47
			For Elevated Installation >10' To 15', Add	14.49	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.47	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.48	
26 05 33 13-0903	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	579.14	81.72
			For Elevated Installation >10' To 15', Add	16.34	
			For Elevated Installation >15' To 20', Add	32.69	
			For Elevated Installation >20' To 25', Add	40.86	
			For Elevated Installation >25' To 30', Add	57.20	
			For Elevated Installation >30' To 35', Add	65.37	
			For Elevated Installation >35' To 40', Add	81.72	
			For Elevated Installation >40', Add	89.89	
			For Work In Restricted Working Space, Add	49.03	
26 05 33 13-0904	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	658.61	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.11	
			For Elevated Installation >35' To 40', Add	106.39	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
26 05 33 13-0905			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0906	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	196.47	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
26 05 33 13-0907	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	217.83	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0908 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	246.12	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	
26 05 33 13-0909 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	303.09	42.40
For Elevated Installation >10' To 15', Add	8.48	
For Elevated Installation >15' To 20', Add	16.96	
For Elevated Installation >20' To 25', Add	21.20	
For Elevated Installation >25' To 30', Add	29.68	
For Elevated Installation >30' To 35', Add	33.92	
For Elevated Installation >35' To 40', Add	42.40	
For Elevated Installation >40', Add	46.64	
For Work In Restricted Working Space, Add	25.44	
26 05 33 13-0910 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	434.93	53.19
For Elevated Installation >10' To 15', Add	10.64	
For Elevated Installation >15' To 20', Add	21.28	
For Elevated Installation >20' To 25', Add	26.60	
For Elevated Installation >25' To 30', Add	37.24	
For Elevated Installation >30' To 35', Add	42.56	
For Elevated Installation >35' To 40', Add	53.20	
For Elevated Installation >40', Add	58.51	
For Work In Restricted Working Space, Add	31.92	
26 05 33 13-0911 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	541.97	72.47
For Elevated Installation >10' To 15', Add	14.49	
For Elevated Installation >15' To 20', Add	28.99	
For Elevated Installation >20' To 25', Add	36.24	
For Elevated Installation >25' To 30', Add	50.73	
For Elevated Installation >30' To 35', Add	57.98	
For Elevated Installation >35' To 40', Add	72.47	
For Elevated Installation >40', Add	79.72	
For Work In Restricted Working Space, Add	43.48	
26 05 33 13-0912 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	627.93	81.72
For Elevated Installation >10' To 15', Add	16.34	
For Elevated Installation >15' To 20', Add	32.69	
For Elevated Installation >20' To 25', Add	40.86	
For Elevated Installation >25' To 30', Add	57.20	
For Elevated Installation >30' To 35', Add	65.37	
For Elevated Installation >35' To 40', Add	81.72	
For Elevated Installation >40', Add	89.89	
For Work In Restricted Working Space, Add	49.03	
26 05 33 13-0913 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	748.17	106.39
For Elevated Installation >10' To 15', Add	21.28	
For Elevated Installation >15' To 20', Add	42.55	
For Elevated Installation >20' To 25', Add	53.19	
For Elevated Installation >25' To 30', Add	74.47	
For Elevated Installation >30' To 35', Add	85.11	
For Elevated Installation >35' To 40', Add	106.39	
For Elevated Installation >40', Add	117.02	
For Work In Restricted Working Space, Add	63.83	
26 05 33 13-0914 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0915 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	219.02	29.29
For Elevated Installation >10' To 15', Add	5.86	
For Elevated Installation >15' To 20', Add	11.72	
For Elevated Installation >20' To 25', Add	14.65	
For Elevated Installation >25' To 30', Add	20.51	
For Elevated Installation >30' To 35', Add	23.44	
For Elevated Installation >35' To 40', Add	29.30	
For Elevated Installation >40', Add	32.22	
For Work In Restricted Working Space, Add	17.58	
26 05 33 13-0916 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	244.21	33.92
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.14	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0917 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	277.79	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0918	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	343.44	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-0919	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	474.16	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.92	
26 05 33 13-0920	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	605.88	72.47
			For Elevated Installation >10' To 15', Add	14.49	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.47	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.48	
26 05 33 13-0921	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	746.54	81.72
			For Elevated Installation >10' To 15', Add	16.34	
			For Elevated Installation >15' To 20', Add	32.69	
			For Elevated Installation >20' To 25', Add	40.86	
			For Elevated Installation >25' To 30', Add	57.20	
			For Elevated Installation >30' To 35', Add	65.37	
			For Elevated Installation >35' To 40', Add	81.72	
			For Elevated Installation >40', Add	89.89	
			For Work In Restricted Working Space, Add	49.03	
26 05 33 13-0922	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	830.38	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.11	
			For Elevated Installation >35' To 40', Add	106.39	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
26 05 33 13-0923	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow	1,382.75	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
26 05 33 13-0924			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0925	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	248.51	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
26 05 33 13-0926	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	276.09	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0927	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow	312.52	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0928 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 388.18		42.40
For Elevated Installation >10' To 15', Add	8.48	
For Elevated Installation >15' To 20', Add	16.96	
For Elevated Installation >20' To 25', Add	21.20	
For Elevated Installation >25' To 30', Add	29.68	
For Elevated Installation >30' To 35', Add	33.92	
For Elevated Installation >35' To 40', Add	42.40	
For Elevated Installation >40', Add	46.64	
For Work In Restricted Working Space, Add	25.44	
26 05 33 13-0929 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 539.52		53.19
For Elevated Installation >10' To 15', Add	10.64	
For Elevated Installation >15' To 20', Add	21.28	
For Elevated Installation >20' To 25', Add	26.60	
For Elevated Installation >25' To 30', Add	37.24	
For Elevated Installation >30' To 35', Add	42.56	
For Elevated Installation >35' To 40', Add	53.20	
For Elevated Installation >40', Add	58.51	
For Work In Restricted Working Space, Add	31.92	
26 05 33 13-0930 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 687.30		72.47
For Elevated Installation >10' To 15', Add	14.49	
For Elevated Installation >15' To 20', Add	28.99	
For Elevated Installation >20' To 25', Add	36.24	
For Elevated Installation >25' To 30', Add	50.73	
For Elevated Installation >30' To 35', Add	57.98	
For Elevated Installation >35' To 40', Add	72.47	
For Elevated Installation >40', Add	79.72	
For Work In Restricted Working Space, Add	43.48	
26 05 33 13-0931 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 805.98		81.72
For Elevated Installation >10' To 15', Add	16.34	
For Elevated Installation >15' To 20', Add	32.69	
For Elevated Installation >20' To 25', Add	40.86	
For Elevated Installation >25' To 30', Add	57.20	
For Elevated Installation >30' To 35', Add	65.37	
For Elevated Installation >35' To 40', Add	81.72	
For Elevated Installation >40', Add	89.89	
For Work In Restricted Working Space, Add	49.03	
26 05 33 13-0932 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 936.51		106.39
For Elevated Installation >10' To 15', Add	21.28	
For Elevated Installation >15' To 20', Add	42.55	
For Elevated Installation >20' To 25', Add	53.19	
For Elevated Installation >25' To 30', Add	74.47	
For Elevated Installation >30' To 35', Add	85.11	
For Elevated Installation >35' To 40', Add	106.39	
For Elevated Installation >40', Add	117.02	
For Work In Restricted Working Space, Add	63.83	
26 05 33 13-0933 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 1,457.13		173.46
For Elevated Installation >10' To 15', Add	34.69	
For Elevated Installation >15' To 20', Add	69.38	
For Elevated Installation >20' To 25', Add	86.73	
For Elevated Installation >25' To 30', Add	121.42	
For Elevated Installation >30' To 35', Add	138.76	
For Elevated Installation >35' To 40', Add	173.46	
For Elevated Installation >40', Add	190.80	
For Work In Restricted Working Space, Add	104.07	
26 05 33 13-0934 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 2,002.40		260.57
For Elevated Installation >10' To 15', Add	52.11	
For Elevated Installation >15' To 20', Add	104.23	
For Elevated Installation >20' To 25', Add	130.28	
For Elevated Installation >25' To 30', Add	182.40	
For Elevated Installation >30' To 35', Add	208.45	
For Elevated Installation >35' To 40', Add	260.57	
For Elevated Installation >40', Add	286.62	
For Work In Restricted Working Space, Add	156.34	
26 05 33 13-0935 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows (26 05 33 13-0843)		
26 05 33 13-0936 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow 289.57		29.29
For Elevated Installation >10' To 15', Add	5.86	
For Elevated Installation >15' To 20', Add	11.72	
For Elevated Installation >20' To 25', Add	14.65	
For Elevated Installation >25' To 30', Add	20.51	
For Elevated Installation >30' To 35', Add	23.44	
For Elevated Installation >35' To 40', Add	29.30	
For Elevated Installation >40', Add	32.22	
For Work In Restricted Working Space, Add	17.58	
26 05 33 13-0937 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow 304.51		33.92
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.14	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Work In Restricted Working Space, Add	20.35	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-0938	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	358.99		38.55
	For Elevated Installation >10' To 15', Add	7.71		
	For Elevated Installation >15' To 20', Add	15.42		
	For Elevated Installation >20' To 25', Add	19.27		
	For Elevated Installation >25' To 30', Add	26.98		
	For Elevated Installation >30' To 35', Add	30.84		
	For Elevated Installation >35' To 40', Add	38.55		
	For Elevated Installation >40', Add	42.40		
	For Work In Restricted Working Space, Add	23.13		
26 05 33 13-0939	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	450.46		42.40
	For Elevated Installation >10' To 15', Add	8.48		
	For Elevated Installation >15' To 20', Add	16.96		
	For Elevated Installation >20' To 25', Add	21.20		
	For Elevated Installation >25' To 30', Add	29.68		
	For Elevated Installation >30' To 35', Add	33.92		
	For Elevated Installation >35' To 40', Add	42.40		
	For Elevated Installation >40', Add	46.64		
	For Work In Restricted Working Space, Add	25.44		
26 05 33 13-0940	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	627.65		53.19
	For Elevated Installation >10' To 15', Add	10.64		
	For Elevated Installation >15' To 20', Add	21.28		
	For Elevated Installation >20' To 25', Add	26.60		
	For Elevated Installation >25' To 30', Add	37.24		
	For Elevated Installation >30' To 35', Add	42.56		
	For Elevated Installation >35' To 40', Add	53.20		
	For Elevated Installation >40', Add	58.51		
	For Work In Restricted Working Space, Add	31.92		
26 05 33 13-0941	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	797.07		72.47
	For Elevated Installation >10' To 15', Add	14.49		
	For Elevated Installation >15' To 20', Add	28.99		
	For Elevated Installation >20' To 25', Add	36.24		
	For Elevated Installation >25' To 30', Add	50.73		
	For Elevated Installation >30' To 35', Add	57.98		
	For Elevated Installation >35' To 40', Add	72.47		
	For Elevated Installation >40', Add	79.72		
	For Work In Restricted Working Space, Add	43.48		
26 05 33 13-0942	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	971.22		81.72
	For Elevated Installation >10' To 15', Add	16.34		
	For Elevated Installation >15' To 20', Add	32.69		
	For Elevated Installation >20' To 25', Add	40.86		
	For Elevated Installation >25' To 30', Add	57.20		
	For Elevated Installation >30' To 35', Add	65.37		
	For Elevated Installation >35' To 40', Add	81.72		
	For Elevated Installation >40', Add	89.89		
	For Work In Restricted Working Space, Add	49.03		
26 05 33 13-0943	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,142.98		106.39
	For Elevated Installation >10' To 15', Add	21.28		
	For Elevated Installation >15' To 20', Add	42.55		
	For Elevated Installation >20' To 25', Add	53.19		
	For Elevated Installation >25' To 30', Add	74.47		
	For Elevated Installation >30' To 35', Add	85.11		
	For Elevated Installation >35' To 40', Add	106.39		
	For Elevated Installation >40', Add	117.02		
	For Work In Restricted Working Space, Add	63.83		
26 05 33 13-0944	EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,699.75		173.46
	For Elevated Installation >10' To 15', Add	34.69		
	For Elevated Installation >15' To 20', Add	69.38		
	For Elevated Installation >20' To 25', Add	86.73		
	For Elevated Installation >25' To 30', Add	121.42		
	For Elevated Installation >30' To 35', Add	138.76		
	For Elevated Installation >35' To 40', Add	173.46		
	For Elevated Installation >40', Add	190.80		
	For Work In Restricted Working Space, Add	104.07		
26 05 33 13-0945	EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	2,113.77		260.57
	For Elevated Installation >10' To 15', Add	52.11		
	For Elevated Installation >15' To 20', Add	104.23		
	For Elevated Installation >20' To 25', Add	130.28		
	For Elevated Installation >25' To 30', Add	182.40		
	For Elevated Installation >30' To 35', Add	208.45		
	For Elevated Installation >35' To 40', Add	260.57		
	For Elevated Installation >40', Add	286.62		
	For Work In Restricted Working Space, Add	156.34		
26 05 33 13-0946	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0843)			
26 05 33 13-0947	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	299.46		29.29
	For Elevated Installation >10' To 15', Add	5.86		
	For Elevated Installation >15' To 20', Add	11.72		
	For Elevated Installation >20' To 25', Add	14.65		
	For Elevated Installation >25' To 30', Add	20.51		
	For Elevated Installation >30' To 35', Add	23.44		
	For Elevated Installation >35' To 40', Add	29.30		
	For Elevated Installation >40', Add	32.22		
	For Work In Restricted Working Space, Add	17.58		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0948 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	352.58	33.92
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.14	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Work In Restricted Working Space, Add	20.35	
26 05 33 13-0949 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	399.18	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	
26 05 33 13-0950 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	469.19	42.40
For Elevated Installation >10' To 15', Add	8.48	
For Elevated Installation >15' To 20', Add	16.96	
For Elevated Installation >20' To 25', Add	21.20	
For Elevated Installation >25' To 30', Add	29.68	
For Elevated Installation >30' To 35', Add	33.92	
For Elevated Installation >35' To 40', Add	42.40	
For Elevated Installation >40', Add	46.64	
For Work In Restricted Working Space, Add	25.44	
26 05 33 13-0951 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	649.67	53.19
For Elevated Installation >10' To 15', Add	10.64	
For Elevated Installation >15' To 20', Add	21.28	
For Elevated Installation >20' To 25', Add	26.60	
For Elevated Installation >25' To 30', Add	37.24	
For Elevated Installation >30' To 35', Add	42.56	
For Elevated Installation >35' To 40', Add	53.20	
For Elevated Installation >40', Add	58.51	
For Work In Restricted Working Space, Add	31.92	
26 05 33 13-0952 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	830.83	72.47
For Elevated Installation >10' To 15', Add	14.49	
For Elevated Installation >15' To 20', Add	28.99	
For Elevated Installation >20' To 25', Add	36.24	
For Elevated Installation >25' To 30', Add	50.73	
For Elevated Installation >30' To 35', Add	57.98	
For Elevated Installation >35' To 40', Add	72.47	
For Elevated Installation >40', Add	79.72	
For Work In Restricted Working Space, Add	43.48	
26 05 33 13-0953 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,061.21	81.72
For Elevated Installation >10' To 15', Add	16.34	
For Elevated Installation >15' To 20', Add	32.69	
For Elevated Installation >20' To 25', Add	40.86	
For Elevated Installation >25' To 30', Add	57.20	
For Elevated Installation >30' To 35', Add	65.37	
For Elevated Installation >35' To 40', Add	81.72	
For Elevated Installation >40', Add	89.89	
For Work In Restricted Working Space, Add	49.03	
26 05 33 13-0954 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,189.81	106.39
For Elevated Installation >10' To 15', Add	21.28	
For Elevated Installation >15' To 20', Add	42.55	
For Elevated Installation >20' To 25', Add	53.19	
For Elevated Installation >25' To 30', Add	74.47	
For Elevated Installation >30' To 35', Add	85.11	
For Elevated Installation >35' To 40', Add	106.39	
For Elevated Installation >40', Add	117.02	
For Work In Restricted Working Space, Add	63.83	
26 05 33 13-0955 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,764.93	173.46
For Elevated Installation >10' To 15', Add	34.69	
For Elevated Installation >15' To 20', Add	69.38	
For Elevated Installation >20' To 25', Add	86.73	
For Elevated Installation >25' To 30', Add	121.42	
For Elevated Installation >30' To 35', Add	138.76	
For Elevated Installation >35' To 40', Add	173.46	
For Elevated Installation >40', Add	190.80	
For Work In Restricted Working Space, Add	104.07	
26 05 33 13-0956 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	2,170.36	260.57
For Elevated Installation >10' To 15', Add	52.11	
For Elevated Installation >15' To 20', Add	104.23	
For Elevated Installation >20' To 25', Add	130.28	
For Elevated Installation >25' To 30', Add	182.40	
For Elevated Installation >30' To 35', Add	208.45	
For Elevated Installation >35' To 40', Add	260.57	
For Elevated Installation >40', Add	286.62	
For Work In Restricted Working Space, Add	156.34	

26 05 33 13-0957 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) 45 Degree Sealtight Fittings (26 05 33 13-0843)



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0958	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	112.58	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-0959	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	138.18	25.44
			For Elevated Installation >10' To 15', Add	5.09	
			For Elevated Installation >15' To 20', Add	10.18	
			For Elevated Installation >20' To 25', Add	12.72	
			For Elevated Installation >25' To 30', Add	17.61	
			For Elevated Installation >30' To 35', Add	20.35	
			For Elevated Installation >35' To 40', Add	25.44	
			For Elevated Installation >40', Add	27.98	
			For Work In Restricted Working Space, Add	15.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26	
26 05 33 13-0960	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	183.26	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.58	
26 05 33 13-0961	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	298.03	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0962	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	329.29	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.13	
26 05 33 13-0963	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	414.77	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44	
26 05 33 13-0964	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,117.15	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.23	
			For Elevated Installation >30' To 35', Add	42.55	
			For Elevated Installation >35' To 40', Add	53.19	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91	
26 05 33 13-0965	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,335.25	72.47
			For Elevated Installation >10' To 15', Add	14.50	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.48	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0966 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,776.22	106.39
For Elevated Installation >10' To 15', Add	21.28	
For Elevated Installation >15' To 20', Add	42.55	
For Elevated Installation >20' To 25', Add	53.19	
For Elevated Installation >25' To 30', Add	74.47	
For Elevated Installation >30' To 35', Add	85.10	
For Elevated Installation >35' To 40', Add	106.38	
For Elevated Installation >40', Add	117.02	
For Work In Restricted Working Space, Add	63.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.83	
26 05 33 13-0967 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings (26 05 33 13-0843)		
26 05 33 13-0968 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	108.08	19.27
For Elevated Installation >10' To 15', Add	3.86	
For Elevated Installation >15' To 20', Add	7.71	
For Elevated Installation >20' To 25', Add	9.64	
For Elevated Installation >25' To 30', Add	13.49	
For Elevated Installation >30' To 35', Add	15.42	
For Elevated Installation >35' To 40', Add	19.28	
For Elevated Installation >40', Add	21.20	
For Work In Restricted Working Space, Add	11.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-0969 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	133.09	25.44
For Elevated Installation >10' To 15', Add	5.09	
For Elevated Installation >15' To 20', Add	10.18	
For Elevated Installation >20' To 25', Add	12.72	
For Elevated Installation >25' To 30', Add	17.81	
For Elevated Installation >30' To 35', Add	20.35	
For Elevated Installation >35' To 40', Add	25.44	
For Elevated Installation >40', Add	27.98	
For Work In Restricted Working Space, Add	15.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26	
26 05 33 13-0970 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	183.26	29.29
For Elevated Installation >10' To 15', Add	5.86	
For Elevated Installation >15' To 20', Add	11.72	
For Elevated Installation >20' To 25', Add	14.65	
For Elevated Installation >25' To 30', Add	20.51	
For Elevated Installation >30' To 35', Add	23.44	
For Elevated Installation >35' To 40', Add	29.30	
For Elevated Installation >40', Add	32.22	
For Work In Restricted Working Space, Add	17.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.58	
26 05 33 13-0971 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	295.41	33.92
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.14	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Work In Restricted Working Space, Add	20.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0972 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	318.74	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.13	
26 05 33 13-0973 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	414.90	42.40
For Elevated Installation >10' To 15', Add	8.48	
For Elevated Installation >15' To 20', Add	16.96	
For Elevated Installation >20' To 25', Add	21.20	
For Elevated Installation >25' To 30', Add	29.68	
For Elevated Installation >30' To 35', Add	33.92	
For Elevated Installation >35' To 40', Add	42.40	
For Elevated Installation >40', Add	46.64	
For Work In Restricted Working Space, Add	25.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44	
26 05 33 13-0974 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,072.13	53.19
For Elevated Installation >10' To 15', Add	10.64	
For Elevated Installation >15' To 20', Add	21.28	
For Elevated Installation >20' To 25', Add	26.60	
For Elevated Installation >25' To 30', Add	37.23	
For Elevated Installation >30' To 35', Add	42.55	
For Elevated Installation >35' To 40', Add	53.19	
For Elevated Installation >40', Add	58.51	
For Work In Restricted Working Space, Add	31.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0975	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealright Fitting.....	1,302.41	72.47
			For Elevated Installation >10' To 15', Add	14.50	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.48	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.49	
26 05 33 13-0976	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealright Fitting.....	1,776.14	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.10	
			For Elevated Installation >35' To 40', Add	106.38	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.83	
26 05 33 13-0977			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealright Fittings (26 05 33 13-0843)		
26 05 33 13-0978	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealright Fitting	98.11	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-0979	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealright Fitting	117.97	25.44
			For Elevated Installation >10' To 15', Add	5.09	
			For Elevated Installation >15' To 20', Add	10.18	
			For Elevated Installation >20' To 25', Add	12.72	
			For Elevated Installation >25' To 30', Add	17.81	
			For Elevated Installation >30' To 35', Add	20.35	
			For Elevated Installation >35' To 40', Add	25.44	
			For Elevated Installation >40', Add	27.98	
			For Work In Restricted Working Space, Add	15.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26	
26 05 33 13-0980	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealright Fitting	139.05	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.58	
26 05 33 13-0981	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealright Fitting	195.94	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	
26 05 33 13-0982	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealright Fitting	228.65	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.13	
26 05 33 13-0983	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealright Fitting	349.79	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0984	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 946.76		53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.23	
			For Elevated Installation >30' To 35', Add	42.55	
			For Elevated Installation >35' To 40', Add	53.19	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91	
26 05 33 13-0985	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 1,068.22		72.47
			For Elevated Installation >10' To 15', Add	14.50	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.48	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.49	
26 05 33 13-0986	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 1,366.96		106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.10	
			For Elevated Installation >35' To 40', Add	106.38	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.83	
26 05 33 13-0987 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0943)					
26 05 33 13-0988	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting 164.77		19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-0989	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting 247.59		25.44
			For Elevated Installation >10' To 15', Add	5.09	
			For Elevated Installation >15' To 20', Add	10.18	
			For Elevated Installation >20' To 25', Add	12.72	
			For Elevated Installation >25' To 30', Add	17.81	
			For Elevated Installation >30' To 35', Add	20.35	
			For Elevated Installation >35' To 40', Add	25.44	
			For Elevated Installation >40', Add	27.98	
			For Work In Restricted Working Space, Add	15.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26	
26 05 33 13-0990	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting 310.72		29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.58	
26 05 33 13-0991	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting 358.68		33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0992	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	407.36	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.13	
26 05 33 13-0993	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	534.40	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44	
26 05 33 13-0994	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,665.19	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.23	
			For Elevated Installation >30' To 35', Add	42.55	
			For Elevated Installation >35' To 40', Add	53.19	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91	
26 05 33 13-0995	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,946.45	72.47
			For Elevated Installation >10' To 15', Add	14.50	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.48	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.49	
26 05 33 13-0996	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,396.73	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.10	
			For Elevated Installation >35' To 40', Add	106.38	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.83	
26 05 33 13-0997			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0843)		
26 05 33 13-0998	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	182.46	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-0999	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	264.29	25.44
			For Elevated Installation >10' To 15', Add	5.09	
			For Elevated Installation >15' To 20', Add	10.18	
			For Elevated Installation >20' To 25', Add	12.72	
			For Elevated Installation >25' To 30', Add	17.81	
			For Elevated Installation >30' To 35', Add	20.35	
			For Elevated Installation >35' To 40', Add	25.44	
			For Elevated Installation >40', Add	27.98	
			For Work In Restricted Working Space, Add	15.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
26 05 33 13-1000	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	313.90		29.29
		For Elevated Installation >10' To 15', Add	5.86		
		For Elevated Installation >15' To 20', Add	11.72		
		For Elevated Installation >20' To 25', Add	14.65		
		For Elevated Installation >25' To 30', Add	20.51		
		For Elevated Installation >30' To 35', Add	23.44		
		For Elevated Installation >35' To 40', Add	29.30		
		For Elevated Installation >40', Add	32.22		
		For Work In Restricted Working Space, Add	17.58		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.58		
26 05 33 13-1001	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	363.92		33.92
		For Elevated Installation >10' To 15', Add	6.78		
		For Elevated Installation >15' To 20', Add	13.57		
		For Elevated Installation >20' To 25', Add	16.96		
		For Elevated Installation >25' To 30', Add	23.74		
		For Elevated Installation >30' To 35', Add	27.14		
		For Elevated Installation >35' To 40', Add	33.92		
		For Elevated Installation >40', Add	37.31		
		For Work In Restricted Working Space, Add	20.35		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35		
26 05 33 13-1002	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	421.73		38.55
		For Elevated Installation >10' To 15', Add	7.71		
		For Elevated Installation >15' To 20', Add	15.42		
		For Elevated Installation >20' To 25', Add	19.27		
		For Elevated Installation >25' To 30', Add	26.98		
		For Elevated Installation >30' To 35', Add	30.84		
		For Elevated Installation >35' To 40', Add	38.55		
		For Elevated Installation >40', Add	42.40		
		For Work In Restricted Working Space, Add	23.13		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.13		
26 05 33 13-1003	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	660.64		42.40
		For Elevated Installation >10' To 15', Add	8.48		
		For Elevated Installation >15' To 20', Add	16.96		
		For Elevated Installation >20' To 25', Add	21.20		
		For Elevated Installation >25' To 30', Add	29.68		
		For Elevated Installation >30' To 35', Add	33.92		
		For Elevated Installation >35' To 40', Add	42.40		
		For Elevated Installation >40', Add	46.64		
		For Work In Restricted Working Space, Add	25.44		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44		
26 05 33 13-1004	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,855.67		53.19
		For Elevated Installation >10' To 15', Add	10.64		
		For Elevated Installation >15' To 20', Add	21.28		
		For Elevated Installation >20' To 25', Add	26.60		
		For Elevated Installation >25' To 30', Add	37.23		
		For Elevated Installation >30' To 35', Add	42.55		
		For Elevated Installation >35' To 40', Add	53.19		
		For Elevated Installation >40', Add	58.51		
		For Work In Restricted Working Space, Add	31.91		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91		
26 05 33 13-1005	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,611.47		72.47
		For Elevated Installation >10' To 15', Add	14.50		
		For Elevated Installation >15' To 20', Add	28.99		
		For Elevated Installation >20' To 25', Add	36.24		
		For Elevated Installation >25' To 30', Add	50.73		
		For Elevated Installation >30' To 35', Add	57.98		
		For Elevated Installation >35' To 40', Add	72.48		
		For Elevated Installation >40', Add	79.72		
		For Work In Restricted Working Space, Add	43.49		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.49		
26 05 33 13-1006	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,733.38		106.39
		For Elevated Installation >10' To 15', Add	21.28		
		For Elevated Installation >15' To 20', Add	42.55		
		For Elevated Installation >20' To 25', Add	53.19		
		For Elevated Installation >25' To 30', Add	74.47		
		For Elevated Installation >30' To 35', Add	85.10		
		For Elevated Installation >35' To 40', Add	106.38		
		For Elevated Installation >40', Add	117.02		
		For Work In Restricted Working Space, Add	63.83		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.83		

26 05 33 13-1007 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0843)



Electrical		26
Common Work Results for Electrical		26 05
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-1008	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	145.27		19.27
	For Elevated Installation >10' To 15', Add	3.86		
	For Elevated Installation >15' To 20', Add	7.71		
	For Elevated Installation >20' To 25', Add	9.64		
	For Elevated Installation >25' To 30', Add	13.49		
	For Elevated Installation >30' To 35', Add	15.42		
	For Elevated Installation >35' To 40', Add	19.28		
	For Elevated Installation >40', Add	21.20		
	For Work In Restricted Working Space, Add	11.57		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57		
26 05 33 13-1009	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	183.53		25.44
	For Elevated Installation >10' To 15', Add	5.09		
	For Elevated Installation >15' To 20', Add	10.18		
	For Elevated Installation >20' To 25', Add	12.72		
	For Elevated Installation >25' To 30', Add	17.81		
	For Elevated Installation >30' To 35', Add	20.35		
	For Elevated Installation >35' To 40', Add	25.44		
	For Elevated Installation >40', Add	27.98		
	For Work In Restricted Working Space, Add	15.26		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.26		
26 05 33 13-1010	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	219.63		29.29
	For Elevated Installation >10' To 15', Add	5.86		
	For Elevated Installation >15' To 20', Add	11.72		
	For Elevated Installation >20' To 25', Add	14.65		
	For Elevated Installation >25' To 30', Add	20.51		
	For Elevated Installation >30' To 35', Add	23.44		
	For Elevated Installation >35' To 40', Add	29.30		
	For Elevated Installation >40', Add	32.22		
	For Work In Restricted Working Space, Add	17.58		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.58		
26 05 33 13-1011	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	243.68		33.92
	For Elevated Installation >10' To 15', Add	6.78		
	For Elevated Installation >15' To 20', Add	13.57		
	For Elevated Installation >20' To 25', Add	16.96		
	For Elevated Installation >25' To 30', Add	23.74		
	For Elevated Installation >30' To 35', Add	27.14		
	For Elevated Installation >35' To 40', Add	33.92		
	For Elevated Installation >40', Add	37.31		
	For Work In Restricted Working Space, Add	20.35		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.35		
26 05 33 13-1012	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	326.65		38.55
	For Elevated Installation >10' To 15', Add	7.71		
	For Elevated Installation >15' To 20', Add	15.42		
	For Elevated Installation >20' To 25', Add	19.27		
	For Elevated Installation >25' To 30', Add	26.98		
	For Elevated Installation >30' To 35', Add	30.84		
	For Elevated Installation >35' To 40', Add	38.55		
	For Elevated Installation >40', Add	42.40		
	For Work In Restricted Working Space, Add	23.13		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.13		
26 05 33 13-1013	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	459.15		42.40
	For Elevated Installation >10' To 15', Add	8.48		
	For Elevated Installation >15' To 20', Add	16.96		
	For Elevated Installation >20' To 25', Add	21.20		
	For Elevated Installation >25' To 30', Add	29.68		
	For Elevated Installation >30' To 35', Add	33.92		
	For Elevated Installation >35' To 40', Add	42.40		
	For Elevated Installation >40', Add	46.64		
	For Work In Restricted Working Space, Add	25.44		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44		
26 05 33 13-1014	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,507.42		53.19
	For Elevated Installation >10' To 15', Add	10.64		
	For Elevated Installation >15' To 20', Add	21.28		
	For Elevated Installation >20' To 25', Add	26.60		
	For Elevated Installation >25' To 30', Add	37.23		
	For Elevated Installation >30' To 35', Add	42.55		
	For Elevated Installation >35' To 40', Add	53.19		
	For Elevated Installation >40', Add	58.51		
	For Work In Restricted Working Space, Add	31.91		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1015	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	1,699.76	72.47		
		For Elevated Installation >10' To 15', Add	14.50			
		For Elevated Installation >15' To 20', Add	28.99			
		For Elevated Installation >20' To 25', Add	36.24			
		For Elevated Installation >25' To 30', Add	50.73			
		For Elevated Installation >30' To 35', Add	57.98			
		For Elevated Installation >35' To 40', Add	72.48			
		For Elevated Installation >40', Add	79.72			
		For Work In Restricted Working Space, Add	43.49			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.49			
26 05 33 13-1016	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting	2,024.25	106.39		
		For Elevated Installation >10' To 15', Add	21.28			
		For Elevated Installation >15' To 20', Add	42.55			
		For Elevated Installation >20' To 25', Add	53.19			
		For Elevated Installation >25' To 30', Add	74.47			
		For Elevated Installation >30' To 35', Add	85.10			
		For Elevated Installation >35' To 40', Add	106.38			
		For Elevated Installation >40', Add	117.02			
		For Work In Restricted Working Space, Add	63.83			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.83			
26 05 33 13-1017		Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0843)				
		Note: Suitable for use in hazardous locations. Class I, Div 2.				
26 05 33 13-1018	EA	1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	135.66	37.00		
		For Elevated Installation >10' To 15', Add	7.40			
		For Elevated Installation >15' To 20', Add	14.80			
		For Elevated Installation >20' To 25', Add	18.50			
		For Elevated Installation >25' To 30', Add	25.90			
		For Elevated Installation >30' To 35', Add	29.60			
		For Elevated Installation >35' To 40', Add	37.01			
		For Elevated Installation >40', Add	40.71			
		For Work In Restricted Working Space, Add	22.20			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.20			
26 05 33 13-1019	EA	3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	153.15	42.40		
		For Elevated Installation >10' To 15', Add	8.48			
		For Elevated Installation >15' To 20', Add	16.96			
		For Elevated Installation >20' To 25', Add	21.20			
		For Elevated Installation >25' To 30', Add	29.68			
		For Elevated Installation >30' To 35', Add	33.92			
		For Elevated Installation >35' To 40', Add	42.40			
		For Elevated Installation >40', Add	46.63			
		For Work In Restricted Working Space, Add	25.44			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44			
26 05 33 13-1020	EA	1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	188.61	48.56		
		For Elevated Installation >10' To 15', Add	9.71			
		For Elevated Installation >15' To 20', Add	19.43			
		For Elevated Installation >20' To 25', Add	24.29			
		For Elevated Installation >25' To 30', Add	34.00			
		For Elevated Installation >30' To 35', Add	38.86			
		For Elevated Installation >35' To 40', Add	48.57			
		For Elevated Installation >40', Add	53.43			
		For Work In Restricted Working Space, Add	29.14			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.14			
26 05 33 13-1021	EA	1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	245.33	56.28		
		For Elevated Installation >10' To 15', Add	11.26			
		For Elevated Installation >15' To 20', Add	22.51			
		For Elevated Installation >20' To 25', Add	28.14			
		For Elevated Installation >25' To 30', Add	39.39			
		For Elevated Installation >30' To 35', Add	45.02			
		For Elevated Installation >35' To 40', Add	56.28			
		For Elevated Installation >40', Add	61.90			
		For Work In Restricted Working Space, Add	33.77			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.77			
26 05 33 13-1022	EA	1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	285.49	61.67		
		For Elevated Installation >10' To 15', Add	12.34			
		For Elevated Installation >15' To 20', Add	24.67			
		For Elevated Installation >20' To 25', Add	30.84			
		For Elevated Installation >25' To 30', Add	43.17			
		For Elevated Installation >30' To 35', Add	49.34			
		For Elevated Installation >35' To 40', Add	61.68			
		For Elevated Installation >40', Add	67.84			
		For Work In Restricted Working Space, Add	37.01			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.01			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1023	EA		2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	387.06	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.41	
26 05 33 13-1024	EA		2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	646.82	104.07
			For Elevated Installation >10' To 15', Add	20.82	
			For Elevated Installation >15' To 20', Add	41.63	
			For Elevated Installation >20' To 25', Add	52.04	
			For Elevated Installation >25' To 30', Add	72.85	
			For Elevated Installation >30' To 35', Add	83.26	
			For Elevated Installation >35' To 40', Add	104.08	
			For Elevated Installation >40', Add	114.48	
			For Work In Restricted Working Space, Add	62.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.45	
26 05 33 13-1025	EA		3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	829.36	138.76
			For Elevated Installation >10' To 15', Add	27.75	
			For Elevated Installation >15' To 20', Add	55.51	
			For Elevated Installation >20' To 25', Add	69.39	
			For Elevated Installation >25' To 30', Add	97.14	
			For Elevated Installation >30' To 35', Add	111.02	
			For Elevated Installation >35' To 40', Add	138.77	
			For Elevated Installation >40', Add	152.65	
			For Work In Restricted Working Space, Add	83.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.26	
26 05 33 13-1026	EA		3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,148.65	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.07	
26 05 33 13-1027	EA		4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,321.15	211.23
			For Elevated Installation >10' To 15', Add	42.25	
			For Elevated Installation >15' To 20', Add	84.49	
			For Elevated Installation >20' To 25', Add	105.62	
			For Elevated Installation >25' To 30', Add	147.86	
			For Elevated Installation >30' To 35', Add	168.98	
			For Elevated Installation >35' To 40', Add	211.23	
			For Elevated Installation >40', Add	232.35	
			For Work In Restricted Working Space, Add	126.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.74	
26 05 33 13-1028			Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0843)		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1029	EA		1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	177.28	48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.28	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.85	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.42	
			For Work In Restricted Working Space, Add	29.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.14	
26 05 33 13-1030	EA		3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	201.78	53.96
			For Elevated Installation >10' To 15', Add	10.79	
			For Elevated Installation >15' To 20', Add	21.58	
			For Elevated Installation >20' To 25', Add	26.98	
			For Elevated Installation >25' To 30', Add	37.77	
			For Elevated Installation >30' To 35', Add	43.17	
			For Elevated Installation >35' To 40', Add	53.96	
			For Elevated Installation >40', Add	59.36	
			For Work In Restricted Working Space, Add	32.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1031	EA		1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 245.13		59.36
			For Elevated Installation >10' To 15', Add	11.87	
			For Elevated Installation >15' To 20', Add	23.74	
			For Elevated Installation >20' To 25', Add	29.68	
			For Elevated Installation >25' To 30', Add	41.55	
			For Elevated Installation >30' To 35', Add	47.48	
			For Elevated Installation >35' To 40', Add	59.36	
			For Elevated Installation >40', Add	65.29	
			For Work In Restricted Working Space, Add	35.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.61	
26 05 33 13-1032	EA		1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 327.22		67.84
			For Elevated Installation >10' To 15', Add	13.57	
			For Elevated Installation >15' To 20', Add	27.13	
			For Elevated Installation >20' To 25', Add	33.92	
			For Elevated Installation >25' To 30', Add	47.48	
			For Elevated Installation >30' To 35', Add	54.27	
			For Elevated Installation >35' To 40', Add	67.84	
			For Elevated Installation >40', Add	74.62	
			For Work In Restricted Working Space, Add	40.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.70	
26 05 33 13-1033	EA		1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 385.45		74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.41	
26 05 33 13-1034	EA		2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 522.99		90.96
			For Elevated Installation >10' To 15', Add	18.19	
			For Elevated Installation >15' To 20', Add	36.39	
			For Elevated Installation >20' To 25', Add	45.49	
			For Elevated Installation >25' To 30', Add	63.68	
			For Elevated Installation >30' To 35', Add	72.78	
			For Elevated Installation >35' To 40', Add	90.97	
			For Elevated Installation >40', Add	100.07	
			For Work In Restricted Working Space, Add	54.58	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.58	
26 05 33 13-1035			Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0843)		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1036	EA		1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 155.95		42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44	
26 05 33 13-1037	EA		3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 178.15		49.34
			For Elevated Installation >10' To 15', Add	9.87	
			For Elevated Installation >15' To 20', Add	19.74	
			For Elevated Installation >20' To 25', Add	24.67	
			For Elevated Installation >25' To 30', Add	34.54	
			For Elevated Installation >30' To 35', Add	39.47	
			For Elevated Installation >35' To 40', Add	49.34	
			For Elevated Installation >40', Add	54.27	
			For Work In Restricted Working Space, Add	29.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.60	
26 05 33 13-1038	EA		1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 214.38		53.96
			For Elevated Installation >10' To 15', Add	10.79	
			For Elevated Installation >15' To 20', Add	21.58	
			For Elevated Installation >20' To 25', Add	26.98	
			For Elevated Installation >25' To 30', Add	37.77	
			For Elevated Installation >30' To 35', Add	43.17	
			For Elevated Installation >35' To 40', Add	53.96	
			For Elevated Installation >40', Add	59.36	
			For Work In Restricted Working Space, Add	32.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.38	
26 05 33 13-1039	EA		1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover 273.23		61.67
			For Elevated Installation >10' To 15', Add	12.34	
			For Elevated Installation >15' To 20', Add	24.67	
			For Elevated Installation >20' To 25', Add	30.84	
			For Elevated Installation >25' To 30', Add	43.17	
			For Elevated Installation >30' To 35', Add	49.34	
			For Elevated Installation >35' To 40', Add	61.68	
			For Elevated Installation >40', Add	67.84	
			For Work In Restricted Working Space, Add	37.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1040	EA		1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	322.86	67.84
			For Elevated Installation >10' To 15', Add	13.57	
			For Elevated Installation >15' To 20', Add	27.14	
			For Elevated Installation >20' To 25', Add	33.92	
			For Elevated Installation >25' To 30', Add	47.49	
			For Elevated Installation >30' To 35', Add	54.27	
			For Elevated Installation >35' To 40', Add	67.84	
			For Elevated Installation >40', Add	74.62	
			For Work In Restricted Working Space, Add	40.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.70	
26 05 33 13-1041	EA		2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	430.60	79.40
			For Elevated Installation >10' To 15', Add	15.88	
			For Elevated Installation >15' To 20', Add	31.76	
			For Elevated Installation >20' To 25', Add	39.70	
			For Elevated Installation >25' To 30', Add	55.58	
			For Elevated Installation >30' To 35', Add	63.52	
			For Elevated Installation >35' To 40', Add	79.40	
			For Elevated Installation >40', Add	87.34	
			For Work In Restricted Working Space, Add	47.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.64	
26 05 33 13-1042	EA		2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	690.40	115.63
			For Elevated Installation >10' To 15', Add	23.13	
			For Elevated Installation >15' To 20', Add	46.25	
			For Elevated Installation >20' To 25', Add	57.82	
			For Elevated Installation >25' To 30', Add	80.94	
			For Elevated Installation >30' To 35', Add	92.51	
			For Elevated Installation >35' To 40', Add	115.64	
			For Elevated Installation >40', Add	127.20	
			For Work In Restricted Working Space, Add	69.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.38	
26 05 33 13-1043	EA		3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	913.33	150.32
			For Elevated Installation >10' To 15', Add	30.07	
			For Elevated Installation >15' To 20', Add	60.13	
			For Elevated Installation >20' To 25', Add	75.16	
			For Elevated Installation >25' To 30', Add	105.23	
			For Elevated Installation >30' To 35', Add	120.26	
			For Elevated Installation >35' To 40', Add	150.33	
			For Elevated Installation >40', Add	165.36	
			For Work In Restricted Working Space, Add	90.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.20	
26 05 33 13-1044	EA		3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,250.65	185.02
			For Elevated Installation >10' To 15', Add	37.00	
			For Elevated Installation >15' To 20', Add	74.01	
			For Elevated Installation >20' To 25', Add	92.51	
			For Elevated Installation >25' To 30', Add	129.51	
			For Elevated Installation >30' To 35', Add	148.01	
			For Elevated Installation >35' To 40', Add	185.02	
			For Elevated Installation >40', Add	203.52	
			For Work In Restricted Working Space, Add	111.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.01	
26 05 33 13-1045	EA		4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,400.96	222.79
			For Elevated Installation >10' To 15', Add	44.56	
			For Elevated Installation >15' To 20', Add	89.12	
			For Elevated Installation >20' To 25', Add	111.40	
			For Elevated Installation >25' To 30', Add	155.96	
			For Elevated Installation >30' To 35', Add	178.24	
			For Elevated Installation >35' To 40', Add	222.80	
			For Elevated Installation >40', Add	245.08	
			For Work In Restricted Working Space, Add	133.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.68	
26 05 33 13-1046			Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined (26 05 33 13-0843)		
26 05 33 13-1047	EA		1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	31.11	4.63
			For Elevated Installation >10' To 15', Add	0.93	
			For Elevated Installation >15' To 20', Add	1.85	
			For Elevated Installation >20' To 25', Add	2.31	
			For Elevated Installation >25' To 30', Add	3.24	
			For Elevated Installation >30' To 35', Add	3.70	
			For Elevated Installation >35' To 40', Add	4.63	
			For Elevated Installation >40', Add	5.09	
			For Work In Restricted Working Space, Add	2.78	
26 05 33 13-1048	EA		3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	34.94	5.40
			For Elevated Installation >10' To 15', Add	1.08	
			For Elevated Installation >15' To 20', Add	2.16	
			For Elevated Installation >20' To 25', Add	2.70	
			For Elevated Installation >25' To 30', Add	3.78	
			For Elevated Installation >30' To 35', Add	4.32	
			For Elevated Installation >35' To 40', Add	5.40	
			For Elevated Installation >40', Add	5.93	
			For Work In Restricted Working Space, Add	3.24	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1049 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	45.56	6.93
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.78	
For Elevated Installation >20' To 25', Add	3.47	
For Elevated Installation >25' To 30', Add	4.86	
For Elevated Installation >30' To 35', Add	5.55	
For Elevated Installation >35' To 40', Add	6.94	
For Elevated Installation >40', Add	7.63	
For Work In Restricted Working Space, Add	4.16	
26 05 33 13-1050 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	58.50	8.48
For Elevated Installation >10' To 15', Add	1.70	
For Elevated Installation >15' To 20', Add	3.39	
For Elevated Installation >20' To 25', Add	4.24	
For Elevated Installation >25' To 30', Add	5.94	
For Elevated Installation >30' To 35', Add	6.78	
For Elevated Installation >35' To 40', Add	8.48	
For Elevated Installation >40', Add	9.33	
For Work In Restricted Working Space, Add	5.09	
26 05 33 13-1051 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	65.59	10.03
For Elevated Installation >10' To 15', Add	2.00	
For Elevated Installation >15' To 20', Add	4.01	
For Elevated Installation >20' To 25', Add	5.01	
For Elevated Installation >25' To 30', Add	7.01	
For Elevated Installation >30' To 35', Add	8.02	
For Elevated Installation >35' To 40', Add	10.02	
For Elevated Installation >40', Add	11.02	
For Work In Restricted Working Space, Add	6.01	
26 05 33 13-1052 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	81.03	11.56
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.62	
For Elevated Installation >20' To 25', Add	5.78	
For Elevated Installation >25' To 30', Add	8.09	
For Elevated Installation >30' To 35', Add	9.25	
For Elevated Installation >35' To 40', Add	11.56	
For Elevated Installation >40', Add	12.72	
For Work In Restricted Working Space, Add	6.94	
26 05 33 13-1053 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	104.51	13.11
For Elevated Installation >10' To 15', Add	2.62	
For Elevated Installation >15' To 20', Add	5.24	
For Elevated Installation >20' To 25', Add	6.55	
For Elevated Installation >25' To 30', Add	9.17	
For Elevated Installation >30' To 35', Add	10.48	
For Elevated Installation >35' To 40', Add	13.11	
For Elevated Installation >40', Add	14.42	
For Work In Restricted Working Space, Add	7.86	
26 05 33 13-1054 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	115.30	18.51
For Elevated Installation >10' To 15', Add	3.70	
For Elevated Installation >15' To 20', Add	7.40	
For Elevated Installation >20' To 25', Add	9.25	
For Elevated Installation >25' To 30', Add	12.95	
For Elevated Installation >30' To 35', Add	14.80	
For Elevated Installation >35' To 40', Add	18.50	
For Elevated Installation >40', Add	20.35	
For Work In Restricted Working Space, Add	11.10	
26 05 33 13-1055 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	139.81	20.81
For Elevated Installation >10' To 15', Add	4.16	
For Elevated Installation >15' To 20', Add	8.33	
For Elevated Installation >20' To 25', Add	10.41	
For Elevated Installation >25' To 30', Add	14.57	
For Elevated Installation >30' To 35', Add	16.65	
For Elevated Installation >35' To 40', Add	20.82	
For Elevated Installation >40', Add	22.90	
For Work In Restricted Working Space, Add	12.49	
26 05 33 13-1056 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	150.61	26.21
For Elevated Installation >10' To 15', Add	5.24	
For Elevated Installation >15' To 20', Add	10.49	
For Elevated Installation >20' To 25', Add	13.11	
For Elevated Installation >25' To 30', Add	18.35	
For Elevated Installation >30' To 35', Add	20.97	
For Elevated Installation >35' To 40', Add	26.22	
For Elevated Installation >40', Add	28.84	
For Work In Restricted Working Space, Add	15.73	
26 05 33 13-1057 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies (26 05 33 13-0843)		
26 05 33 13-1058 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	152.22	37.00
For Elevated Installation >10' To 15', Add	7.40	
For Elevated Installation >15' To 20', Add	14.80	
For Elevated Installation >20' To 25', Add	18.50	
For Elevated Installation >25' To 30', Add	25.90	
For Elevated Installation >30' To 35', Add	29.60	
For Elevated Installation >35' To 40', Add	37.00	
For Elevated Installation >40', Add	40.70	
For Work In Restricted Working Space, Add	22.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.20	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1059	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	168.92	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44	
26 05 33 13-1060	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	197.07	48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.14	
26 05 33 13-1061	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	233.58	56.28
			For Elevated Installation >10' To 15', Add	11.26	
			For Elevated Installation >15' To 20', Add	22.51	
			For Elevated Installation >20' To 25', Add	28.14	
			For Elevated Installation >25' To 30', Add	39.39	
			For Elevated Installation >30' To 35', Add	45.02	
			For Elevated Installation >35' To 40', Add	56.28	
			For Elevated Installation >40', Add	61.90	
			For Work In Restricted Working Space, Add	33.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.77	
26 05 33 13-1062	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	288.79	61.67
			For Elevated Installation >10' To 15', Add	12.34	
			For Elevated Installation >15' To 20', Add	24.67	
			For Elevated Installation >20' To 25', Add	30.84	
			For Elevated Installation >25' To 30', Add	43.17	
			For Elevated Installation >30' To 35', Add	49.34	
			For Elevated Installation >35' To 40', Add	61.68	
			For Elevated Installation >40', Add	67.84	
			For Work In Restricted Working Space, Add	37.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.01	
26 05 33 13-1063	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	349.81	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.61	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.41	
26 05 33 13-1064	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	505.86	104.07
			For Elevated Installation >10' To 15', Add	20.82	
			For Elevated Installation >15' To 20', Add	41.63	
			For Elevated Installation >20' To 25', Add	52.04	
			For Elevated Installation >25' To 30', Add	72.85	
			For Elevated Installation >30' To 35', Add	83.26	
			For Elevated Installation >35' To 40', Add	104.08	
			For Elevated Installation >40', Add	114.48	
			For Work In Restricted Working Space, Add	62.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.45	
26 05 33 13-1065	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	649.88	138.76
			For Elevated Installation >10' To 15', Add	27.75	
			For Elevated Installation >15' To 20', Add	55.51	
			For Elevated Installation >20' To 25', Add	69.38	
			For Elevated Installation >25' To 30', Add	97.14	
			For Elevated Installation >30' To 35', Add	111.01	
			For Elevated Installation >35' To 40', Add	138.77	
			For Elevated Installation >40', Add	152.64	
			For Work In Restricted Working Space, Add	83.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.26	
26 05 33 13-1066	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	1,275.75	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.07	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1067	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,858.25		211.23
	For Elevated Installation >10' To 15', Add	42.25		
	For Elevated Installation >15' To 20', Add	84.49		
	For Elevated Installation >20' To 25', Add	105.62		
	For Elevated Installation >25' To 30', Add	147.86		
	For Elevated Installation >30' To 35', Add	168.98		
	For Elevated Installation >35' To 40', Add	211.23		
	For Elevated Installation >40', Add	232.35		
	For Work In Restricted Working Space, Add	126.74		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.74		
26 05 33 13-1068 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0843)				
26 05 33 13-1069	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	254.03		37.00
	For Elevated Installation >10' To 15', Add	7.40		
	For Elevated Installation >15' To 20', Add	14.80		
	For Elevated Installation >20' To 25', Add	18.50		
	For Elevated Installation >25' To 30', Add	25.90		
	For Elevated Installation >30' To 35', Add	29.60		
	For Elevated Installation >35' To 40', Add	37.00		
	For Elevated Installation >40', Add	40.70		
	For Work In Restricted Working Space, Add	22.20		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.20		
26 05 33 13-1070	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	274.19		42.40
	For Elevated Installation >10' To 15', Add	8.48		
	For Elevated Installation >15' To 20', Add	16.96		
	For Elevated Installation >20' To 25', Add	21.20		
	For Elevated Installation >25' To 30', Add	29.68		
	For Elevated Installation >30' To 35', Add	33.92		
	For Elevated Installation >35' To 40', Add	42.40		
	For Elevated Installation >40', Add	46.64		
	For Work In Restricted Working Space, Add	25.44		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44		
26 05 33 13-1071	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	313.14		48.56
	For Elevated Installation >10' To 15', Add	9.71		
	For Elevated Installation >15' To 20', Add	19.43		
	For Elevated Installation >20' To 25', Add	24.29		
	For Elevated Installation >25' To 30', Add	34.00		
	For Elevated Installation >30' To 35', Add	38.86		
	For Elevated Installation >35' To 40', Add	48.57		
	For Elevated Installation >40', Add	53.43		
	For Work In Restricted Working Space, Add	29.14		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.14		
26 05 33 13-1072	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	350.98		56.28
	For Elevated Installation >10' To 15', Add	11.26		
	For Elevated Installation >15' To 20', Add	22.51		
	For Elevated Installation >20' To 25', Add	28.14		
	For Elevated Installation >25' To 30', Add	39.39		
	For Elevated Installation >30' To 35', Add	45.02		
	For Elevated Installation >35' To 40', Add	56.28		
	For Elevated Installation >40', Add	61.90		
	For Work In Restricted Working Space, Add	33.77		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.77		
26 05 33 13-1073	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	423.93		61.67
	For Elevated Installation >10' To 15', Add	12.34		
	For Elevated Installation >15' To 20', Add	24.67		
	For Elevated Installation >20' To 25', Add	30.84		
	For Elevated Installation >25' To 30', Add	43.17		
	For Elevated Installation >30' To 35', Add	49.34		
	For Elevated Installation >35' To 40', Add	61.68		
	For Elevated Installation >40', Add	67.84		
	For Work In Restricted Working Space, Add	37.01		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.01		
26 05 33 13-1074	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	478.37		74.00
	For Elevated Installation >10' To 15', Add	14.80		
	For Elevated Installation >15' To 20', Add	29.60		
	For Elevated Installation >20' To 25', Add	37.01		
	For Elevated Installation >25' To 30', Add	51.81		
	For Elevated Installation >30' To 35', Add	59.21		
	For Elevated Installation >35' To 40', Add	74.01		
	For Elevated Installation >40', Add	81.41		
	For Work In Restricted Working Space, Add	44.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.41		
26 05 33 13-1075	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	673.00		104.07
	For Elevated Installation >10' To 15', Add	20.82		
	For Elevated Installation >15' To 20', Add	41.63		
	For Elevated Installation >20' To 25', Add	52.04		
	For Elevated Installation >25' To 30', Add	72.85		
	For Elevated Installation >30' To 35', Add	83.26		
	For Elevated Installation >35' To 40', Add	104.08		
	For Elevated Installation >40', Add	114.48		
	For Work In Restricted Working Space, Add	62.45		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.45		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1076	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	936.12 27.75 55.51 69.38 97.14 111.01 138.77 152.64 83.26 83.26	138.76
26 05 33 13-1077	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,358.88 34.69 69.38 86.73 121.42 138.76 173.46 190.80 104.07 104.07	173.46
26 05 33 13-1078	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,967.03 42.25 84.49 105.62 147.86 168.98 211.23 232.35 126.74 126.74	211.23
26 05 33 13-1079			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies (26 05 33 13-0843)		
26 05 33 13-1080	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	205.02 7.40 14.80 18.50 25.90 29.60 37.00 40.70 22.20 22.20	37.00
26 05 33 13-1081	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	219.30 8.48 16.96 21.20 29.68 33.92 42.40 46.64 25.44 25.44	42.40
26 05 33 13-1082	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.93 9.71 19.43 24.29 34.00 38.86 48.57 53.43 29.14 29.14	48.56
26 05 33 13-1083	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	281.55 11.26 22.51 28.14 39.39 45.02 56.28 61.90 33.77 33.77	56.28
26 05 33 13-1084	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	383.51 12.34 24.67 30.84 43.17 49.34 61.68 67.84 37.01 37.01	61.67

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1085	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	480.81	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.41	
26 05 33 13-1086	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	744.08	104.07
			For Elevated Installation >10' To 15', Add	20.82	
			For Elevated Installation >15' To 20', Add	41.63	
			For Elevated Installation >20' To 25', Add	52.04	
			For Elevated Installation >25' To 30', Add	72.85	
			For Elevated Installation >30' To 35', Add	83.26	
			For Elevated Installation >35' To 40', Add	104.08	
			For Elevated Installation >40', Add	114.48	
			For Work In Restricted Working Space, Add	62.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.45	
26 05 33 13-1087	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,080.74	138.76
			For Elevated Installation >10' To 15', Add	27.75	
			For Elevated Installation >15' To 20', Add	55.51	
			For Elevated Installation >20' To 25', Add	69.38	
			For Elevated Installation >25' To 30', Add	97.14	
			For Elevated Installation >30' To 35', Add	111.01	
			For Elevated Installation >35' To 40', Add	138.77	
			For Elevated Installation >40', Add	152.64	
			For Work In Restricted Working Space, Add	83.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.26	
26 05 33 13-1088	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,358.88	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	104.07	
26 05 33 13-1089 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Bodies (26 05 33 13-0843)					
26 05 33 13-1090	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Body	268.42	37.00
			For Elevated Installation >10' To 15', Add	7.40	
			For Elevated Installation >15' To 20', Add	14.80	
			For Elevated Installation >20' To 25', Add	18.50	
			For Elevated Installation >25' To 30', Add	25.90	
			For Elevated Installation >30' To 35', Add	29.60	
			For Elevated Installation >35' To 40', Add	37.00	
			For Elevated Installation >40', Add	40.70	
			For Work In Restricted Working Space, Add	22.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.20	
26 05 33 13-1091	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Body	298.19	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44	
26 05 33 13-1092	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Body	368.66	48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.14	
26 05 33 13-1093	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Body	453.65	56.28
			For Elevated Installation >10' To 15', Add	11.26	
			For Elevated Installation >15' To 20', Add	22.51	
			For Elevated Installation >20' To 25', Add	28.14	
			For Elevated Installation >25' To 30', Add	39.39	
			For Elevated Installation >30' To 35', Add	45.02	
			For Elevated Installation >35' To 40', Add	56.28	
			For Elevated Installation >40', Add	61.90	
			For Work In Restricted Working Space, Add	33.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1094	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	626.67	61.67
			For Elevated Installation >10' To 15', Add	12.34	
			For Elevated Installation >15' To 20', Add	24.67	
			For Elevated Installation >20' To 25', Add	30.84	
			For Elevated Installation >25' To 30', Add	43.17	
			For Elevated Installation >30' To 35', Add	49.34	
			For Elevated Installation >35' To 40', Add	61.68	
			For Elevated Installation >40', Add	67.84	
			For Work In Restricted Working Space, Add	37.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.01	
26 05 33 13-1095	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	751.06	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.41	
26 05 33 13-1096			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0843)		
26 05 33 13-1097	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	53.47	14.82
			For Elevated Installation >10' To 15', Add	2.97	
			For Elevated Installation >15' To 20', Add	5.93	
			For Elevated Installation >20' To 25', Add	7.41	
			For Elevated Installation >25' To 30', Add	10.38	
			For Elevated Installation >30' To 35', Add	11.86	
			For Elevated Installation >35' To 40', Add	14.83	
			For Elevated Installation >40', Add	16.31	
			For Work In Restricted Working Space, Add	8.90	
26 05 33 13-1098	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	70.48	17.79
			For Elevated Installation >10' To 15', Add	3.56	
			For Elevated Installation >15' To 20', Add	7.12	
			For Elevated Installation >20' To 25', Add	8.90	
			For Elevated Installation >25' To 30', Add	12.45	
			For Elevated Installation >30' To 35', Add	14.23	
			For Elevated Installation >35' To 40', Add	17.79	
			For Elevated Installation >40', Add	19.57	
			For Work In Restricted Working Space, Add	10.67	
26 05 33 13-1099	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	89.82	23.72
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.49	
			For Elevated Installation >20' To 25', Add	11.86	
			For Elevated Installation >25' To 30', Add	16.60	
			For Elevated Installation >30' To 35', Add	18.98	
			For Elevated Installation >35' To 40', Add	23.72	
			For Elevated Installation >40', Add	26.09	
			For Work In Restricted Working Space, Add	14.23	
26 05 33 13-1100	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	122.90	29.65
			For Elevated Installation >10' To 15', Add	5.93	
			For Elevated Installation >15' To 20', Add	11.86	
			For Elevated Installation >20' To 25', Add	14.83	
			For Elevated Installation >25' To 30', Add	20.76	
			For Elevated Installation >30' To 35', Add	23.72	
			For Elevated Installation >35' To 40', Add	29.65	
			For Elevated Installation >40', Add	32.62	
			For Work In Restricted Working Space, Add	17.79	
26 05 33 13-1101	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	160.52	35.58
			For Elevated Installation >10' To 15', Add	7.12	
			For Elevated Installation >15' To 20', Add	14.23	
			For Elevated Installation >20' To 25', Add	17.79	
			For Elevated Installation >25' To 30', Add	24.91	
			For Elevated Installation >30' To 35', Add	28.46	
			For Elevated Installation >35' To 40', Add	35.58	
			For Elevated Installation >40', Add	39.14	
			For Work In Restricted Working Space, Add	21.35	
26 05 33 13-1102	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	271.96	41.51
			For Elevated Installation >10' To 15', Add	8.30	
			For Elevated Installation >15' To 20', Add	16.61	
			For Elevated Installation >20' To 25', Add	20.76	
			For Elevated Installation >25' To 30', Add	29.06	
			For Elevated Installation >30' To 35', Add	33.21	
			For Elevated Installation >35' To 40', Add	41.52	
			For Elevated Installation >40', Add	45.67	
			For Work In Restricted Working Space, Add	24.91	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1103 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	392.33	47.44
For Elevated Installation >10' To 15', Add	9.49	
For Elevated Installation >15' To 20', Add	18.98	
For Elevated Installation >20' To 25', Add	23.72	
For Elevated Installation >25' To 30', Add	33.21	
For Elevated Installation >30' To 35', Add	37.95	
For Elevated Installation >35' To 40', Add	47.44	
For Elevated Installation >40', Add	52.18	
For Work In Restricted Working Space, Add	28.46	
26 05 33 13-1104 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	488.19	53.37
For Elevated Installation >10' To 15', Add	10.67	
For Elevated Installation >15' To 20', Add	21.35	
For Elevated Installation >20' To 25', Add	26.69	
For Elevated Installation >25' To 30', Add	37.36	
For Elevated Installation >30' To 35', Add	42.70	
For Elevated Installation >35' To 40', Add	53.37	
For Elevated Installation >40', Add	58.71	
For Work In Restricted Working Space, Add	32.02	
26 05 33 13-1105 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	676.86	62.26
For Elevated Installation >10' To 15', Add	12.45	
For Elevated Installation >15' To 20', Add	24.91	
For Elevated Installation >20' To 25', Add	31.13	
For Elevated Installation >25' To 30', Add	43.59	
For Elevated Installation >30' To 35', Add	49.81	
For Elevated Installation >35' To 40', Add	62.27	
For Elevated Installation >40', Add	68.49	
For Work In Restricted Working Space, Add	37.36	
26 05 33 13-1106 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	820.85	71.16
For Elevated Installation >10' To 15', Add	14.23	
For Elevated Installation >15' To 20', Add	28.47	
For Elevated Installation >20' To 25', Add	35.58	
For Elevated Installation >25' To 30', Add	49.82	
For Elevated Installation >30' To 35', Add	56.93	
For Elevated Installation >35' To 40', Add	71.17	
For Elevated Installation >40', Add	78.28	
For Work In Restricted Working Space, Add	42.70	
26 05 33 13-1107 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,313.50	112.67
For Elevated Installation >10' To 15', Add	22.53	
For Elevated Installation >15' To 20', Add	45.07	
For Elevated Installation >20' To 25', Add	56.34	
For Elevated Installation >25' To 30', Add	78.87	
For Elevated Installation >30' To 35', Add	90.14	
For Elevated Installation >35' To 40', Add	112.67	
For Elevated Installation >40', Add	123.94	
For Work In Restricted Working Space, Add	67.60	
26 05 33 13-1108 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,799.51	171.97
For Elevated Installation >10' To 15', Add	34.39	
For Elevated Installation >15' To 20', Add	68.79	
For Elevated Installation >20' To 25', Add	85.99	
For Elevated Installation >25' To 30', Add	120.38	
For Elevated Installation >30' To 35', Add	137.58	
For Elevated Installation >35' To 40', Add	171.97	
For Elevated Installation >40', Add	189.17	
For Work In Restricted Working Space, Add	103.18	
26 05 33 13-1109 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0843)		
26 05 33 13-1110 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	193.84	37.00
For Elevated Installation >10' To 15', Add	7.40	
For Elevated Installation >15' To 20', Add	14.80	
For Elevated Installation >20' To 25', Add	18.50	
For Elevated Installation >25' To 30', Add	25.90	
For Elevated Installation >30' To 35', Add	29.60	
For Elevated Installation >35' To 40', Add	37.00	
For Elevated Installation >40', Add	40.70	
For Work In Restricted Working Space, Add	22.20	
26 05 33 13-1111 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	228.53	40.86
For Elevated Installation >10' To 15', Add	8.17	
For Elevated Installation >15' To 20', Add	16.34	
For Elevated Installation >20' To 25', Add	20.43	
For Elevated Installation >25' To 30', Add	28.60	
For Elevated Installation >30' To 35', Add	32.69	
For Elevated Installation >35' To 40', Add	40.86	
For Elevated Installation >40', Add	44.95	
For Work In Restricted Working Space, Add	24.52	
26 05 33 13-1112 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	252.95	48.56
For Elevated Installation >10' To 15', Add	9.71	
For Elevated Installation >15' To 20', Add	19.43	
For Elevated Installation >20' To 25', Add	24.29	
For Elevated Installation >25' To 30', Add	34.00	
For Elevated Installation >30' To 35', Add	38.86	
For Elevated Installation >35' To 40', Add	48.57	
For Elevated Installation >40', Add	53.43	
For Work In Restricted Working Space, Add	29.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1113	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	360.48 11.26 22.51 28.14 39.39 45.02 56.28 61.90 33.77	56.28
26 05 33 13-1114	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	472.71 12.34 24.67 30.84 43.17 49.34 61.68 67.84 37.01	61.67
26 05 33 13-1115	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	511.90 14.80 29.60 37.01 51.81 59.21 74.01 81.41 44.41	74.00
26 05 33 13-1116	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,192.99 20.51 41.01 51.27 71.77 82.03 102.54 112.79 61.52	102.53
26 05 33 13-1117	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,265.69 27.75 55.51 69.39 97.14 111.02 138.77 152.65 83.26	138.76
26 05 33 13-1118	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	2,058.56 34.69 69.38 86.73 121.42 138.77 173.46 190.81 104.08	173.46
26 05 33 13-1119	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	2,150.73 42.25 84.50 105.62 147.87 169.00 211.25 232.37 126.75	211.23
26 05 33 13-1120			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0843)		
26 05 33 13-1121	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	279.12 7.40 14.80 18.50 25.90 29.60 37.00 40.70 22.20	37.00

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1122	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	318.04	42.40
		For Elevated Installation >10' To 15', Add	8.48	
		For Elevated Installation >15' To 20', Add	16.96	
		For Elevated Installation >20' To 25', Add	21.20	
		For Elevated Installation >25' To 30', Add	29.68	
		For Elevated Installation >30' To 35', Add	33.92	
		For Elevated Installation >35' To 40', Add	42.40	
		For Elevated Installation >40', Add	46.64	
		For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1123	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	619.85	48.56
		For Elevated Installation >10' To 15', Add	9.71	
		For Elevated Installation >15' To 20', Add	19.43	
		For Elevated Installation >20' To 25', Add	24.29	
		For Elevated Installation >25' To 30', Add	34.00	
		For Elevated Installation >30' To 35', Add	38.86	
		For Elevated Installation >35' To 40', Add	48.57	
		For Elevated Installation >40', Add	53.43	
		For Work In Restricted Working Space, Add	29.14	
26 05 33 13-1124	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	651.40	56.28
		For Elevated Installation >10' To 15', Add	11.26	
		For Elevated Installation >15' To 20', Add	22.51	
		For Elevated Installation >20' To 25', Add	28.14	
		For Elevated Installation >25' To 30', Add	39.39	
		For Elevated Installation >30' To 35', Add	45.02	
		For Elevated Installation >35' To 40', Add	56.28	
		For Elevated Installation >40', Add	61.90	
		For Work In Restricted Working Space, Add	33.77	
26 05 33 13-1125	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	887.13	61.67
		For Elevated Installation >10' To 15', Add	12.34	
		For Elevated Installation >15' To 20', Add	24.67	
		For Elevated Installation >20' To 25', Add	30.84	
		For Elevated Installation >25' To 30', Add	43.17	
		For Elevated Installation >30' To 35', Add	49.34	
		For Elevated Installation >35' To 40', Add	61.68	
		For Elevated Installation >40', Add	67.84	
		For Work In Restricted Working Space, Add	37.01	
26 05 33 13-1126	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	948.03	74.00
		For Elevated Installation >10' To 15', Add	14.80	
		For Elevated Installation >15' To 20', Add	29.60	
		For Elevated Installation >20' To 25', Add	37.01	
		For Elevated Installation >25' To 30', Add	51.81	
		For Elevated Installation >30' To 35', Add	59.21	
		For Elevated Installation >35' To 40', Add	74.01	
		For Elevated Installation >40', Add	81.41	
		For Work In Restricted Working Space, Add	44.41	
26 05 33 13-1127	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,814.54	104.07
		For Elevated Installation >10' To 15', Add	20.82	
		For Elevated Installation >15' To 20', Add	41.63	
		For Elevated Installation >20' To 25', Add	52.04	
		For Elevated Installation >25' To 30', Add	72.85	
		For Elevated Installation >30' To 35', Add	83.26	
		For Elevated Installation >35' To 40', Add	104.08	
		For Elevated Installation >40', Add	114.48	
		For Work In Restricted Working Space, Add	62.45	
26 05 33 13-1128	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,915.68	138.76
		For Elevated Installation >10' To 15', Add	27.75	
		For Elevated Installation >15' To 20', Add	55.51	
		For Elevated Installation >20' To 25', Add	69.38	
		For Elevated Installation >25' To 30', Add	97.14	
		For Elevated Installation >30' To 35', Add	111.01	
		For Elevated Installation >35' To 40', Add	138.77	
		For Elevated Installation >40', Add	152.64	
		For Work In Restricted Working Space, Add	83.26	
26 05 33 13-1129	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,799.98	173.46
		For Elevated Installation >10' To 15', Add	34.69	
		For Elevated Installation >15' To 20', Add	69.38	
		For Elevated Installation >20' To 25', Add	86.73	
		For Elevated Installation >25' To 30', Add	121.42	
		For Elevated Installation >30' To 35', Add	138.76	
		For Elevated Installation >35' To 40', Add	173.46	
		For Elevated Installation >40', Add	190.80	
		For Work In Restricted Working Space, Add	104.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1130	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	3,173.73	211.23
			For Elevated Installation >10' To 15', Add	42.25	
			For Elevated Installation >15' To 20', Add	84.49	
			For Elevated Installation >20' To 25', Add	105.62	
			For Elevated Installation >25' To 30', Add	147.86	
			For Elevated Installation >30' To 35', Add	168.98	
			For Elevated Installation >35' To 40', Add	211.23	
			For Elevated Installation >40', Add	232.35	
			For Work In Restricted Working Space, Add	126.74	
26 05 33 13-1131 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0843)					
26 05 33 13-1132	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	108.18	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
26 05 33 13-1133	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	126.20	23.89
			For Elevated Installation >10' To 15', Add	4.78	
			For Elevated Installation >15' To 20', Add	9.56	
			For Elevated Installation >20' To 25', Add	11.95	
			For Elevated Installation >25' To 30', Add	16.73	
			For Elevated Installation >30' To 35', Add	19.12	
			For Elevated Installation >35' To 40', Add	23.90	
			For Elevated Installation >40', Add	26.29	
			For Work In Restricted Working Space, Add	14.34	
26 05 33 13-1134	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	150.51	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
26 05 33 13-1135	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	177.53	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1136 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0843)					
26 05 33 13-1137	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	85.96	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
26 05 33 13-1138	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	99.53	23.89
			For Elevated Installation >10' To 15', Add	4.78	
			For Elevated Installation >15' To 20', Add	9.56	
			For Elevated Installation >20' To 25', Add	11.95	
			For Elevated Installation >25' To 30', Add	16.73	
			For Elevated Installation >30' To 35', Add	19.12	
			For Elevated Installation >35' To 40', Add	23.90	
			For Elevated Installation >40', Add	26.29	
			For Work In Restricted Working Space, Add	14.34	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1139	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	137.52		29.29
		For Elevated Installation >10' To 15', Add	5.86		
		For Elevated Installation >15' To 20', Add	11.72		
		For Elevated Installation >20' To 25', Add	14.65		
		For Elevated Installation >25' To 30', Add	20.51		
		For Elevated Installation >30' To 35', Add	23.44		
		For Elevated Installation >35' To 40', Add	29.30		
		For Elevated Installation >40', Add	32.22		
		For Work In Restricted Working Space, Add	17.58		
26 05 33 13-1140	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	177.63		33.92
		For Elevated Installation >10' To 15', Add	6.78		
		For Elevated Installation >15' To 20', Add	13.57		
		For Elevated Installation >20' To 25', Add	16.96		
		For Elevated Installation >25' To 30', Add	23.74		
		For Elevated Installation >30' To 35', Add	27.14		
		For Elevated Installation >35' To 40', Add	33.92		
		For Elevated Installation >40', Add	37.31		
		For Work In Restricted Working Space, Add	20.35		
26 05 33 13-1141	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	215.94		38.55
		For Elevated Installation >10' To 15', Add	7.71		
		For Elevated Installation >15' To 20', Add	15.42		
		For Elevated Installation >20' To 25', Add	19.27		
		For Elevated Installation >25' To 30', Add	26.98		
		For Elevated Installation >30' To 35', Add	30.84		
		For Elevated Installation >35' To 40', Add	38.55		
		For Elevated Installation >40', Add	42.40		
		For Work In Restricted Working Space, Add	23.13		
26 05 33 13-1142	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	308.05		42.40
		For Elevated Installation >10' To 15', Add	8.48		
		For Elevated Installation >15' To 20', Add	16.96		
		For Elevated Installation >20' To 25', Add	21.20		
		For Elevated Installation >25' To 30', Add	29.68		
		For Elevated Installation >30' To 35', Add	33.92		
		For Elevated Installation >35' To 40', Add	42.40		
		For Elevated Installation >40', Add	46.64		
		For Work In Restricted Working Space, Add	25.44		
26 05 33 13-1143	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	420.09		53.19
		For Elevated Installation >10' To 15', Add	10.64		
		For Elevated Installation >15' To 20', Add	21.28		
		For Elevated Installation >20' To 25', Add	26.60		
		For Elevated Installation >25' To 30', Add	37.24		
		For Elevated Installation >30' To 35', Add	42.56		
		For Elevated Installation >35' To 40', Add	53.20		
		For Elevated Installation >40', Add	58.51		
		For Work In Restricted Working Space, Add	31.92		
26 05 33 13-1144 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows					
(26 05 33 13-0843)					
26 05 33 13-1145	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	108.23		19.27
		For Elevated Installation >10' To 15', Add	3.86		
		For Elevated Installation >15' To 20', Add	7.71		
		For Elevated Installation >20' To 25', Add	9.64		
		For Elevated Installation >25' To 30', Add	13.49		
		For Elevated Installation >30' To 35', Add	15.42		
		For Elevated Installation >35' To 40', Add	19.28		
		For Elevated Installation >40', Add	21.20		
		For Work In Restricted Working Space, Add	11.57		
26 05 33 13-1146	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	129.28		23.89
		For Elevated Installation >10' To 15', Add	4.78		
		For Elevated Installation >15' To 20', Add	9.56		
		For Elevated Installation >20' To 25', Add	11.95		
		For Elevated Installation >25' To 30', Add	16.73		
		For Elevated Installation >30' To 35', Add	19.12		
		For Elevated Installation >35' To 40', Add	23.90		
		For Elevated Installation >40', Add	26.29		
		For Work In Restricted Working Space, Add	14.34		
26 05 33 13-1147	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	150.54		29.29
		For Elevated Installation >10' To 15', Add	5.86		
		For Elevated Installation >15' To 20', Add	11.72		
		For Elevated Installation >20' To 25', Add	14.65		
		For Elevated Installation >25' To 30', Add	20.51		
		For Elevated Installation >30' To 35', Add	23.44		
		For Elevated Installation >35' To 40', Add	29.30		
		For Elevated Installation >40', Add	32.22		
		For Work In Restricted Working Space, Add	17.58		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1148	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	177.58	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1149			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0843)		
26 05 33 13-1150	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	86.04	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
26 05 33 13-1151	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	99.53	23.89
			For Elevated Installation >10' To 15', Add	4.78	
			For Elevated Installation >15' To 20', Add	9.56	
			For Elevated Installation >20' To 25', Add	11.95	
			For Elevated Installation >25' To 30', Add	16.73	
			For Elevated Installation >30' To 35', Add	19.12	
			For Elevated Installation >35' To 40', Add	23.90	
			For Elevated Installation >40', Add	26.29	
			For Work In Restricted Working Space, Add	14.34	
26 05 33 13-1152	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	128.32	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	
26 05 33 13-1153	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	159.76	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1154	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	186.83	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	
26 05 33 13-1155	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	214.83	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1156	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	396.32	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.92	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1157	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	456.40		72.47
		For Elevated Installation >10' To 15', Add	14.49		
		For Elevated Installation >15' To 20', Add	28.99		
		For Elevated Installation >20' To 25', Add	36.24		
		For Elevated Installation >25' To 30', Add	50.73		
		For Elevated Installation >30' To 35', Add	57.98		
		For Elevated Installation >35' To 40', Add	72.47		
		For Elevated Installation >40', Add	79.72		
		For Work In Restricted Working Space, Add	43.48		
26 05 33 13-1158	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	493.07		81.72
		For Elevated Installation >10' To 15', Add	16.34		
		For Elevated Installation >15' To 20', Add	32.69		
		For Elevated Installation >20' To 25', Add	40.86		
		For Elevated Installation >25' To 30', Add	57.20		
		For Elevated Installation >30' To 35', Add	65.37		
		For Elevated Installation >35' To 40', Add	81.72		
		For Elevated Installation >40', Add	89.89		
		For Work In Restricted Working Space, Add	49.03		
26 05 33 13-1159	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	609.37		106.39
		For Elevated Installation >10' To 15', Add	21.28		
		For Elevated Installation >15' To 20', Add	42.55		
		For Elevated Installation >20' To 25', Add	53.19		
		For Elevated Installation >25' To 30', Add	74.47		
		For Elevated Installation >30' To 35', Add	85.11		
		For Elevated Installation >35' To 40', Add	106.39		
		For Elevated Installation >40', Add	117.02		
		For Work In Restricted Working Space, Add	63.83		
26 05 33 13-1160 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows (26 05 33 13-0843)					
26 05 33 13-1161	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	179.45		37.00
		For Elevated Installation >10' To 15', Add	7.40		
		For Elevated Installation >15' To 20', Add	14.80		
		For Elevated Installation >20' To 25', Add	18.50		
		For Elevated Installation >25' To 30', Add	25.90		
		For Elevated Installation >30' To 35', Add	29.60		
		For Elevated Installation >35' To 40', Add	37.00		
		For Elevated Installation >40', Add	40.70		
		For Work In Restricted Working Space, Add	22.20		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.20		
26 05 33 13-1162	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	194.39		42.40
		For Elevated Installation >10' To 15', Add	8.48		
		For Elevated Installation >15' To 20', Add	16.96		
		For Elevated Installation >20' To 25', Add	21.20		
		For Elevated Installation >25' To 30', Add	29.68		
		For Elevated Installation >30' To 35', Add	33.92		
		For Elevated Installation >35' To 40', Add	42.40		
		For Elevated Installation >40', Add	46.64		
		For Work In Restricted Working Space, Add	25.44		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.44		
26 05 33 13-1163	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	213.21		48.56
		For Elevated Installation >10' To 15', Add	9.71		
		For Elevated Installation >15' To 20', Add	19.43		
		For Elevated Installation >20' To 25', Add	24.29		
		For Elevated Installation >25' To 30', Add	34.00		
		For Elevated Installation >30' To 35', Add	38.86		
		For Elevated Installation >35' To 40', Add	48.57		
		For Elevated Installation >40', Add	53.43		
		For Work In Restricted Working Space, Add	29.14		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.14		
26 05 33 13-1164	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	284.65		56.28
		For Elevated Installation >10' To 15', Add	11.26		
		For Elevated Installation >15' To 20', Add	22.51		
		For Elevated Installation >20' To 25', Add	28.14		
		For Elevated Installation >25' To 30', Add	39.39		
		For Elevated Installation >30' To 35', Add	45.02		
		For Elevated Installation >35' To 40', Add	56.28		
		For Elevated Installation >40', Add	61.90		
		For Work In Restricted Working Space, Add	33.77		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.77		
26 05 33 13-1165	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	360.30		61.67
		For Elevated Installation >10' To 15', Add	12.34		
		For Elevated Installation >15' To 20', Add	24.67		
		For Elevated Installation >20' To 25', Add	30.84		
		For Elevated Installation >25' To 30', Add	43.17		
		For Elevated Installation >30' To 35', Add	49.34		
		For Elevated Installation >35' To 40', Add	61.68		
		For Elevated Installation >40', Add	67.84		
		For Work In Restricted Working Space, Add	37.01		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.01		



MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 05 33 13-1166 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover (26 05 33 13-0843)				
26 05 33 13-1167	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	214.66		37.00
	For Elevated Installation >10' To 15', Add	7.40		
	For Elevated Installation >15' To 20', Add	14.80		
	For Elevated Installation >20' To 25', Add	18.50		
	For Elevated Installation >25' To 30', Add	25.90		
	For Elevated Installation >30' To 35', Add	29.60		
	For Elevated Installation >35' To 40', Add	37.00		
	For Elevated Installation >40', Add	40.70		
	For Work In Restricted Working Space, Add	22.20		
26 05 33 13-1168	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	231.76		42.40
	For Elevated Installation >10' To 15', Add	8.48		
	For Elevated Installation >15' To 20', Add	16.96		
	For Elevated Installation >20' To 25', Add	21.20		
	For Elevated Installation >25' To 30', Add	29.68		
	For Elevated Installation >30' To 35', Add	33.92		
	For Elevated Installation >35' To 40', Add	42.40		
	For Elevated Installation >40', Add	46.64		
	For Work In Restricted Working Space, Add	25.44		
26 05 33 13-1169	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	270.72		48.56
	For Elevated Installation >10' To 15', Add	9.71		
	For Elevated Installation >15' To 20', Add	19.43		
	For Elevated Installation >20' To 25', Add	24.29		
	For Elevated Installation >25' To 30', Add	34.00		
	For Elevated Installation >30' To 35', Add	38.86		
	For Elevated Installation >35' To 40', Add	48.57		
	For Elevated Installation >40', Add	53.43		
	For Work In Restricted Working Space, Add	29.14		
26 05 33 13-1170	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	384.46		56.28
	For Elevated Installation >10' To 15', Add	11.26		
	For Elevated Installation >15' To 20', Add	22.51		
	For Elevated Installation >20' To 25', Add	28.14		
	For Elevated Installation >25' To 30', Add	39.39		
	For Elevated Installation >30' To 35', Add	45.02		
	For Elevated Installation >35' To 40', Add	56.28		
	For Elevated Installation >40', Add	61.90		
	For Work In Restricted Working Space, Add	33.77		
26 05 33 13-1171	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	618.91		61.67
	For Elevated Installation >10' To 15', Add	12.34		
	For Elevated Installation >15' To 20', Add	24.67		
	For Elevated Installation >20' To 25', Add	30.84		
	For Elevated Installation >25' To 30', Add	43.17		
	For Elevated Installation >30' To 35', Add	49.34		
	For Elevated Installation >35' To 40', Add	61.68		
	For Elevated Installation >40', Add	67.84		
	For Work In Restricted Working Space, Add	37.01		
26 05 33 13-1172	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover	670.15		74.00
	For Elevated Installation >10' To 15', Add	14.80		
	For Elevated Installation >15' To 20', Add	29.60		
	For Elevated Installation >20' To 25', Add	37.01		
	For Elevated Installation >25' To 30', Add	51.81		
	For Elevated Installation >30' To 35', Add	59.21		
	For Elevated Installation >35' To 40', Add	74.01		
	For Elevated Installation >40', Add	81.41		
	For Work In Restricted Working Space, Add	44.41		
26 05 33 13-1173 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover (26 05 33 13-0843)				
26 05 33 13-1174	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	234.64		37.00
	For Elevated Installation >10' To 15', Add	7.40		
	For Elevated Installation >15' To 20', Add	14.80		
	For Elevated Installation >20' To 25', Add	18.50		
	For Elevated Installation >25' To 30', Add	25.90		
	For Elevated Installation >30' To 35', Add	29.60		
	For Elevated Installation >35' To 40', Add	37.00		
	For Elevated Installation >40', Add	40.70		
	For Work In Restricted Working Space, Add	22.20		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1175	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	265.09		42.40
	For Elevated Installation >10' To 15', Add	8.48		
	For Elevated Installation >15' To 20', Add	16.96		
	For Elevated Installation >20' To 25', Add	21.20		
	For Elevated Installation >25' To 30', Add	29.68		
	For Elevated Installation >30' To 35', Add	33.92		
	For Elevated Installation >35' To 40', Add	42.40		
	For Elevated Installation >40', Add	46.64		
	For Work In Restricted Working Space, Add	25.44		
26 05 33 13-1176	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	289.73		48.56
	For Elevated Installation >10' To 15', Add	9.71		
	For Elevated Installation >15' To 20', Add	19.43		
	For Elevated Installation >20' To 25', Add	24.29		
	For Elevated Installation >25' To 30', Add	34.00		
	For Elevated Installation >30' To 35', Add	38.86		
	For Elevated Installation >35' To 40', Add	48.57		
	For Elevated Installation >40', Add	53.43		
	For Work In Restricted Working Space, Add	29.14		
26 05 33 13-1177	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	403.78		56.28
	For Elevated Installation >10' To 15', Add	11.26		
	For Elevated Installation >15' To 20', Add	22.51		
	For Elevated Installation >20' To 25', Add	28.14		
	For Elevated Installation >25' To 30', Add	39.39		
	For Elevated Installation >30' To 35', Add	45.02		
	For Elevated Installation >35' To 40', Add	56.28		
	For Elevated Installation >40', Add	61.90		
	For Work In Restricted Working Space, Add	33.77		
26 05 33 13-1178	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	665.00		61.67
	For Elevated Installation >10' To 15', Add	12.34		
	For Elevated Installation >15' To 20', Add	24.67		
	For Elevated Installation >20' To 25', Add	30.84		
	For Elevated Installation >25' To 30', Add	43.17		
	For Elevated Installation >30' To 35', Add	49.34		
	For Elevated Installation >35' To 40', Add	61.68		
	For Elevated Installation >40', Add	67.84		
	For Work In Restricted Working Space, Add	37.01		
26 05 33 13-1179	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	712.45		74.00
	For Elevated Installation >10' To 15', Add	14.80		
	For Elevated Installation >15' To 20', Add	29.60		
	For Elevated Installation >20' To 25', Add	37.01		
	For Elevated Installation >25' To 30', Add	51.81		
	For Elevated Installation >30' To 35', Add	59.21		
	For Elevated Installation >35' To 40', Add	74.01		
	For Elevated Installation >40', Add	81.41		
	For Work In Restricted Working Space, Add	44.41		
26 05 33 13-1180 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover (26 05 33 13-0843)				
26 05 33 13-1181	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	234.79		37.00
	For Elevated Installation >10' To 15', Add	7.40		
	For Elevated Installation >15' To 20', Add	14.80		
	For Elevated Installation >20' To 25', Add	18.50		
	For Elevated Installation >25' To 30', Add	25.90		
	For Elevated Installation >30' To 35', Add	29.60		
	For Elevated Installation >35' To 40', Add	37.00		
	For Elevated Installation >40', Add	40.70		
	For Work In Restricted Working Space, Add	22.20		
26 05 33 13-1182	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	259.19		42.40
	For Elevated Installation >10' To 15', Add	8.48		
	For Elevated Installation >15' To 20', Add	16.96		
	For Elevated Installation >20' To 25', Add	21.20		
	For Elevated Installation >25' To 30', Add	29.68		
	For Elevated Installation >30' To 35', Add	33.92		
	For Elevated Installation >35' To 40', Add	42.40		
	For Elevated Installation >40', Add	46.64		
	For Work In Restricted Working Space, Add	25.44		
26 05 33 13-1183	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	308.09		48.56
	For Elevated Installation >10' To 15', Add	9.71		
	For Elevated Installation >15' To 20', Add	19.43		
	For Elevated Installation >20' To 25', Add	24.29		
	For Elevated Installation >25' To 30', Add	34.00		
	For Elevated Installation >30' To 35', Add	38.86		
	For Elevated Installation >35' To 40', Add	48.57		
	For Elevated Installation >40', Add	53.43		
	For Work In Restricted Working Space, Add	29.14		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1184	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	418.49	56.28
			For Elevated Installation >10' To 15', Add	11.26	
			For Elevated Installation >15' To 20', Add	22.51	
			For Elevated Installation >20' To 25', Add	28.14	
			For Elevated Installation >25' To 30', Add	39.39	
			For Elevated Installation >30' To 35', Add	45.02	
			For Elevated Installation >35' To 40', Add	56.28	
			For Elevated Installation >40', Add	61.90	
			For Work In Restricted Working Space, Add	33.77	
26 05 33 13-1185	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	686.96	61.67
			For Elevated Installation >10' To 15', Add	12.34	
			For Elevated Installation >15' To 20', Add	24.67	
			For Elevated Installation >20' To 25', Add	30.84	
			For Elevated Installation >25' To 30', Add	43.17	
			For Elevated Installation >30' To 35', Add	49.34	
			For Elevated Installation >35' To 40', Add	61.68	
			For Elevated Installation >40', Add	67.84	
			For Work In Restricted Working Space, Add	37.01	
26 05 33 13-1186	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	739.52	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
26 05 33 13-1187 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover (26 05 33 13-0843)					
26 05 33 13-1188	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	290.11	37.00
			For Elevated Installation >10' To 15', Add	7.40	
			For Elevated Installation >15' To 20', Add	14.80	
			For Elevated Installation >20' To 25', Add	18.50	
			For Elevated Installation >25' To 30', Add	25.90	
			For Elevated Installation >30' To 35', Add	29.60	
			For Elevated Installation >35' To 40', Add	37.00	
			For Elevated Installation >40', Add	40.70	
			For Work In Restricted Working Space, Add	22.20	
26 05 33 13-1189	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	320.68	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1190	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	348.07	48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
26 05 33 13-1191	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover	865.55	56.28
			For Elevated Installation >10' To 15', Add	11.26	
			For Elevated Installation >15' To 20', Add	22.51	
			For Elevated Installation >20' To 25', Add	28.14	
			For Elevated Installation >25' To 30', Add	39.39	
			For Elevated Installation >30' To 35', Add	45.02	
			For Elevated Installation >35' To 40', Add	56.28	
			For Elevated Installation >40', Add	61.90	
			For Work In Restricted Working Space, Add	33.77	

26 05 33 13-1192 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0843)
Note: Excludes cover.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1193	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 142.61		37.00
			For Elevated Installation >10' To 15', Add	7.40	
			For Elevated Installation >15' To 20', Add	14.80	
			For Elevated Installation >20' To 25', Add	18.50	
			For Elevated Installation >25' To 30', Add	25.90	
			For Elevated Installation >30' To 35', Add	29.60	
			For Elevated Installation >35' To 40', Add	37.00	
			For Elevated Installation >40', Add	40.70	
			For Work In Restricted Working Space, Add	22.20	
26 05 33 13-1194	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 157.12		42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1195	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 175.67		48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
26 05 33 13-1196	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 157.61		37.00
			For Elevated Installation >10' To 15', Add	7.40	
			For Elevated Installation >15' To 20', Add	14.80	
			For Elevated Installation >20' To 25', Add	18.50	
			For Elevated Installation >25' To 30', Add	25.90	
			For Elevated Installation >30' To 35', Add	29.60	
			For Elevated Installation >35' To 40', Add	37.00	
			For Elevated Installation >40', Add	40.70	
			For Work In Restricted Working Space, Add	22.20	
26 05 33 13-1197	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 170.24		42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1198	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 193.89		48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
26 05 33 13-1199			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0843)		
			Note: Excludes cover.		
26 05 33 13-1200	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 149.70		37.00
			For Elevated Installation >10' To 15', Add	7.40	
			For Elevated Installation >15' To 20', Add	14.80	
			For Elevated Installation >20' To 25', Add	18.50	
			For Elevated Installation >25' To 30', Add	25.90	
			For Elevated Installation >30' To 35', Add	29.60	
			For Elevated Installation >35' To 40', Add	37.00	
			For Elevated Installation >40', Add	40.70	
			For Work In Restricted Working Space, Add	22.20	
26 05 33 13-1201	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 165.11		42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1202	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 181.18		48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1203	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	167.75	37.00
			For Elevated Installation >10' To 15', Add	7.40	
			For Elevated Installation >15' To 20', Add	14.80	
			For Elevated Installation >20' To 25', Add	18.50	
			For Elevated Installation >25' To 30', Add	25.90	
			For Elevated Installation >30' To 35', Add	29.60	
			For Elevated Installation >35' To 40', Add	37.00	
			For Elevated Installation >40', Add	40.70	
			For Work In Restricted Working Space, Add	22.20	
26 05 33 13-1204	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	183.33	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1205	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	207.37	48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
26 05 33 13-1206 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers (26 05 33 13-0843)					
26 05 33 13-1207	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	51.70	4.63
			For Elevated Installation >10' To 15', Add	0.93	
			For Elevated Installation >15' To 20', Add	1.85	
			For Elevated Installation >20' To 25', Add	2.31	
			For Elevated Installation >25' To 30', Add	3.24	
			For Elevated Installation >30' To 35', Add	3.70	
			For Elevated Installation >35' To 40', Add	4.63	
			For Elevated Installation >40', Add	5.09	
			For Work In Restricted Working Space, Add	2.78	
26 05 33 13-1208	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	70.17	5.40
			For Elevated Installation >10' To 15', Add	1.08	
			For Elevated Installation >15' To 20', Add	2.16	
			For Elevated Installation >20' To 25', Add	2.70	
			For Elevated Installation >25' To 30', Add	3.78	
			For Elevated Installation >30' To 35', Add	4.32	
			For Elevated Installation >35' To 40', Add	5.40	
			For Elevated Installation >40', Add	5.93	
			For Work In Restricted Working Space, Add	3.24	
26 05 33 13-1209	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	66.28	5.40
			For Elevated Installation >10' To 15', Add	1.08	
			For Elevated Installation >15' To 20', Add	2.16	
			For Elevated Installation >20' To 25', Add	2.70	
			For Elevated Installation >25' To 30', Add	3.78	
			For Elevated Installation >30' To 35', Add	4.32	
			For Elevated Installation >35' To 40', Add	5.40	
			For Elevated Installation >40', Add	5.93	
			For Work In Restricted Working Space, Add	3.24	
26 05 33 13-1210	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	59.01	5.40
			For Elevated Installation >10' To 15', Add	1.08	
			For Elevated Installation >15' To 20', Add	2.16	
			For Elevated Installation >20' To 25', Add	2.70	
			For Elevated Installation >25' To 30', Add	3.78	
			For Elevated Installation >30' To 35', Add	4.32	
			For Elevated Installation >35' To 40', Add	5.40	
			For Elevated Installation >40', Add	5.93	
			For Work In Restricted Working Space, Add	3.24	
26 05 33 13-1211	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover.....	284.88	7.71
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Work In Restricted Working Space, Add	4.62	
26 05 33 13-1212	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover	253.35	7.71
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Work In Restricted Working Space, Add	4.62	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-1213	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies (26 05 33 13-0843) Note: Includes covers.	
26 05 33 13-1214	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	304.02 48.56
	For Elevated Installation >10' To 15', Add	9.71
	For Elevated Installation >15' To 20', Add	19.43
	For Elevated Installation >20' To 25', Add	24.29
	For Elevated Installation >25' To 30', Add	34.00
	For Elevated Installation >30' To 35', Add	38.86
	For Elevated Installation >35' To 40', Add	48.57
	For Elevated Installation >40', Add	53.43
	For Work In Restricted Working Space, Add	29.14
26 05 33 13-1215	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	341.75 56.28
	For Elevated Installation >10' To 15', Add	11.26
	For Elevated Installation >15' To 20', Add	22.51
	For Elevated Installation >20' To 25', Add	28.14
	For Elevated Installation >25' To 30', Add	39.39
	For Elevated Installation >30' To 35', Add	45.02
	For Elevated Installation >35' To 40', Add	56.28
	For Elevated Installation >40', Add	61.90
	For Work In Restricted Working Space, Add	33.77
26 05 33 13-1216	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	469.36 61.67
	For Elevated Installation >10' To 15', Add	12.34
	For Elevated Installation >15' To 20', Add	24.67
	For Elevated Installation >20' To 25', Add	30.84
	For Elevated Installation >25' To 30', Add	43.17
	For Elevated Installation >30' To 35', Add	49.34
	For Elevated Installation >35' To 40', Add	61.68
	For Elevated Installation >40', Add	67.84
	For Work In Restricted Working Space, Add	37.01
26 05 33 13-1217	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	559.36 74.00
	For Elevated Installation >10' To 15', Add	14.80
	For Elevated Installation >15' To 20', Add	29.60
	For Elevated Installation >20' To 25', Add	37.01
	For Elevated Installation >25' To 30', Add	51.81
	For Elevated Installation >30' To 35', Add	59.21
	For Elevated Installation >35' To 40', Add	74.01
	For Elevated Installation >40', Add	81.41
	For Work In Restricted Working Space, Add	44.41
26 05 33 13-1218	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	807.63 104.07
	For Elevated Installation >10' To 15', Add	20.82
	For Elevated Installation >15' To 20', Add	41.63
	For Elevated Installation >20' To 25', Add	52.04
	For Elevated Installation >25' To 30', Add	72.85
	For Elevated Installation >30' To 35', Add	83.26
	For Elevated Installation >35' To 40', Add	104.08
	For Elevated Installation >40', Add	114.48
	For Work In Restricted Working Space, Add	62.45
26 05 33 13-1219	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,020.24 138.76
	For Elevated Installation >10' To 15', Add	27.75
	For Elevated Installation >15' To 20', Add	55.51
	For Elevated Installation >20' To 25', Add	69.38
	For Elevated Installation >25' To 30', Add	97.14
	For Elevated Installation >30' To 35', Add	111.01
	For Elevated Installation >35' To 40', Add	138.77
	For Elevated Installation >40', Add	152.64
	For Work In Restricted Working Space, Add	83.26
26 05 33 13-1220	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,490.76 173.46
	For Elevated Installation >10' To 15', Add	34.69
	For Elevated Installation >15' To 20', Add	69.38
	For Elevated Installation >20' To 25', Add	86.73
	For Elevated Installation >25' To 30', Add	121.42
	For Elevated Installation >30' To 35', Add	138.76
	For Elevated Installation >35' To 40', Add	173.46
	For Elevated Installation >40', Add	190.80
	For Work In Restricted Working Space, Add	104.07
26 05 33 13-1221	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,849.13 211.23
	For Elevated Installation >10' To 15', Add	42.25
	For Elevated Installation >15' To 20', Add	84.49
	For Elevated Installation >20' To 25', Add	105.62
	For Elevated Installation >25' To 30', Add	147.86
	For Elevated Installation >30' To 35', Add	168.98
	For Elevated Installation >35' To 40', Add	211.23
	For Elevated Installation >40', Add	232.35
	For Work In Restricted Working Space, Add	126.74
26 05 33 13-1222	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	304.02 48.56
	For Elevated Installation >10' To 15', Add	9.71
	For Elevated Installation >15' To 20', Add	19.43
	For Elevated Installation >20' To 25', Add	24.29
	For Elevated Installation >25' To 30', Add	34.00
	For Elevated Installation >30' To 35', Add	38.86
	For Elevated Installation >35' To 40', Add	48.57
	For Elevated Installation >40', Add	53.43
	For Work In Restricted Working Space, Add	29.14



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1223	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	341.75	56.28
			For Elevated Installation >10' To 15', Add	11.26	
			For Elevated Installation >15' To 20', Add	22.51	
			For Elevated Installation >20' To 25', Add	28.14	
			For Elevated Installation >25' To 30', Add	39.39	
			For Elevated Installation >30' To 35', Add	45.02	
			For Elevated Installation >35' To 40', Add	56.28	
			For Elevated Installation >40', Add	61.90	
			For Work In Restricted Working Space, Add	33.77	
26 05 33 13-1224	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	468.09	61.67
			For Elevated Installation >10' To 15', Add	12.34	
			For Elevated Installation >15' To 20', Add	24.67	
			For Elevated Installation >20' To 25', Add	30.84	
			For Elevated Installation >25' To 30', Add	43.17	
			For Elevated Installation >30' To 35', Add	49.34	
			For Elevated Installation >35' To 40', Add	61.68	
			For Elevated Installation >40', Add	67.84	
			For Work In Restricted Working Space, Add	37.01	
26 05 33 13-1225	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	546.52	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
26 05 33 13-1226	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	819.45	104.07
			For Elevated Installation >10' To 15', Add	20.82	
			For Elevated Installation >15' To 20', Add	41.63	
			For Elevated Installation >20' To 25', Add	52.04	
			For Elevated Installation >25' To 30', Add	72.85	
			For Elevated Installation >30' To 35', Add	83.26	
			For Elevated Installation >35' To 40', Add	104.08	
			For Elevated Installation >40', Add	114.48	
			For Work In Restricted Working Space, Add	62.45	
26 05 33 13-1227	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,073.27	138.76
			For Elevated Installation >10' To 15', Add	27.75	
			For Elevated Installation >15' To 20', Add	55.51	
			For Elevated Installation >20' To 25', Add	69.38	
			For Elevated Installation >25' To 30', Add	97.14	
			For Elevated Installation >30' To 35', Add	111.01	
			For Elevated Installation >35' To 40', Add	138.77	
			For Elevated Installation >40', Add	152.64	
			For Work In Restricted Working Space, Add	83.26	
26 05 33 13-1228	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,554.78	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
26 05 33 13-1229	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,888.99	211.23
			For Elevated Installation >10' To 15', Add	42.25	
			For Elevated Installation >15' To 20', Add	84.49	
			For Elevated Installation >20' To 25', Add	105.62	
			For Elevated Installation >25' To 30', Add	147.86	
			For Elevated Installation >30' To 35', Add	168.98	
			For Elevated Installation >35' To 40', Add	211.23	
			For Elevated Installation >40', Add	232.35	
			For Work In Restricted Working Space, Add	126.74	
26 05 33 13-1230	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	304.02	48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
26 05 33 13-1231	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	341.75	56.28
			For Elevated Installation >10' To 15', Add	11.26	
			For Elevated Installation >15' To 20', Add	22.51	
			For Elevated Installation >20' To 25', Add	28.14	
			For Elevated Installation >25' To 30', Add	39.39	
			For Elevated Installation >30' To 35', Add	45.02	
			For Elevated Installation >35' To 40', Add	56.28	
			For Elevated Installation >40', Add	61.90	
			For Work In Restricted Working Space, Add	33.77	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1232	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	468.09	61.67
			For Elevated Installation >10' To 15', Add	12.34	
			For Elevated Installation >15' To 20', Add	24.67	
			For Elevated Installation >20' To 25', Add	30.84	
			For Elevated Installation >25' To 30', Add	43.17	
			For Elevated Installation >30' To 35', Add	49.34	
			For Elevated Installation >35' To 40', Add	61.68	
			For Elevated Installation >40', Add	67.84	
			For Work In Restricted Working Space, Add	37.01	
26 05 33 13-1233	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	546.52	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
26 05 33 13-1234	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	819.45	104.07
			For Elevated Installation >10' To 15', Add	20.82	
			For Elevated Installation >15' To 20', Add	41.63	
			For Elevated Installation >20' To 25', Add	52.04	
			For Elevated Installation >25' To 30', Add	72.85	
			For Elevated Installation >30' To 35', Add	83.26	
			For Elevated Installation >35' To 40', Add	104.08	
			For Elevated Installation >40', Add	114.48	
			For Work In Restricted Working Space, Add	62.45	
26 05 33 13-1235	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,073.27	138.76
			For Elevated Installation >10' To 15', Add	27.75	
			For Elevated Installation >15' To 20', Add	55.51	
			For Elevated Installation >20' To 25', Add	69.38	
			For Elevated Installation >25' To 30', Add	97.14	
			For Elevated Installation >30' To 35', Add	111.01	
			For Elevated Installation >35' To 40', Add	138.77	
			For Elevated Installation >40', Add	152.64	
			For Work In Restricted Working Space, Add	83.26	
26 05 33 13-1236	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,554.78	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
26 05 33 13-1237	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	1,888.99	211.23
			For Elevated Installation >10' To 15', Add	42.25	
			For Elevated Installation >15' To 20', Add	84.49	
			For Elevated Installation >20' To 25', Add	105.62	
			For Elevated Installation >25' To 30', Add	147.86	
			For Elevated Installation >30' To 35', Add	168.98	
			For Elevated Installation >35' To 40', Add	211.23	
			For Elevated Installation >40', Add	232.35	
			For Work In Restricted Working Space, Add	126.74	
26 05 33 13-1238	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	304.02	48.56
			For Elevated Installation >10' To 15', Add	9.71	
			For Elevated Installation >15' To 20', Add	19.43	
			For Elevated Installation >20' To 25', Add	24.29	
			For Elevated Installation >25' To 30', Add	34.00	
			For Elevated Installation >30' To 35', Add	38.86	
			For Elevated Installation >35' To 40', Add	48.57	
			For Elevated Installation >40', Add	53.43	
			For Work In Restricted Working Space, Add	29.14	
26 05 33 13-1239	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	341.75	56.28
			For Elevated Installation >10' To 15', Add	11.26	
			For Elevated Installation >15' To 20', Add	22.51	
			For Elevated Installation >20' To 25', Add	28.14	
			For Elevated Installation >25' To 30', Add	39.39	
			For Elevated Installation >30' To 35', Add	45.02	
			For Elevated Installation >35' To 40', Add	56.28	
			For Elevated Installation >40', Add	61.90	
			For Work In Restricted Working Space, Add	33.77	
26 05 33 13-1240	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	468.36	61.67
			For Elevated Installation >10' To 15', Add	12.34	
			For Elevated Installation >15' To 20', Add	24.67	
			For Elevated Installation >20' To 25', Add	30.84	
			For Elevated Installation >25' To 30', Add	43.17	
			For Elevated Installation >30' To 35', Add	49.34	
			For Elevated Installation >35' To 40', Add	61.68	
			For Elevated Installation >40', Add	67.84	
			For Work In Restricted Working Space, Add	37.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1241	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	553.44	74.00
			For Elevated Installation >10' To 15', Add	14.80	
			For Elevated Installation >15' To 20', Add	29.60	
			For Elevated Installation >20' To 25', Add	37.01	
			For Elevated Installation >25' To 30', Add	51.81	
			For Elevated Installation >30' To 35', Add	59.21	
			For Elevated Installation >35' To 40', Add	74.01	
			For Elevated Installation >40', Add	81.41	
			For Work In Restricted Working Space, Add	44.41	
26 05 33 13-1242	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	807.63	104.07
			For Elevated Installation >10' To 15', Add	20.82	
			For Elevated Installation >15' To 20', Add	41.63	
			For Elevated Installation >20' To 25', Add	52.04	
			For Elevated Installation >25' To 30', Add	72.85	
			For Elevated Installation >30' To 35', Add	83.26	
			For Elevated Installation >35' To 40', Add	104.08	
			For Elevated Installation >40', Add	114.48	
			For Work In Restricted Working Space, Add	62.45	
26 05 33 13-1243	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,020.24	138.76
			For Elevated Installation >10' To 15', Add	27.75	
			For Elevated Installation >15' To 20', Add	55.51	
			For Elevated Installation >20' To 25', Add	69.38	
			For Elevated Installation >25' To 30', Add	97.14	
			For Elevated Installation >30' To 35', Add	111.01	
			For Elevated Installation >35' To 40', Add	138.77	
			For Elevated Installation >40', Add	152.64	
			For Work In Restricted Working Space, Add	83.26	
26 05 33 13-1244	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,490.76	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
26 05 33 13-1245	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,865.73	211.23
			For Elevated Installation >10' To 15', Add	42.25	
			For Elevated Installation >15' To 20', Add	84.49	
			For Elevated Installation >20' To 25', Add	105.62	
			For Elevated Installation >25' To 30', Add	147.86	
			For Elevated Installation >30' To 35', Add	168.98	
			For Elevated Installation >35' To 40', Add	211.23	
			For Elevated Installation >40', Add	232.35	
			For Work In Restricted Working Space, Add	126.74	
26 05 33 13-1246			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0843)		
26 05 33 13-1247	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	148.66	6.93
			For Elevated Installation >10' To 15', Add	1.39	
			For Elevated Installation >15' To 20', Add	2.78	
			For Elevated Installation >20' To 25', Add	3.47	
			For Elevated Installation >25' To 30', Add	4.86	
			For Elevated Installation >30' To 35', Add	5.55	
			For Elevated Installation >35' To 40', Add	6.94	
			For Elevated Installation >40', Add	7.63	
			For Work In Restricted Working Space, Add	4.16	
26 05 33 13-1248	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	150.19	7.71
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.85	
			For Elevated Installation >25' To 30', Add	5.39	
			For Elevated Installation >30' To 35', Add	6.16	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Work In Restricted Working Space, Add	4.62	
26 05 33 13-1249	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	212.33	10.79
			For Elevated Installation >10' To 15', Add	2.16	
			For Elevated Installation >15' To 20', Add	4.32	
			For Elevated Installation >20' To 25', Add	5.40	
			For Elevated Installation >25' To 30', Add	7.56	
			For Elevated Installation >30' To 35', Add	8.64	
			For Elevated Installation >35' To 40', Add	10.80	
			For Elevated Installation >40', Add	11.87	
			For Work In Restricted Working Space, Add	6.48	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1250	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	215.41	12.33
			For Elevated Installation >10' To 15', Add	2.47	
			For Elevated Installation >15' To 20', Add	4.93	
			For Elevated Installation >20' To 25', Add	6.17	
			For Elevated Installation >25' To 30', Add	8.63	
			For Elevated Installation >30' To 35', Add	9.87	
			For Elevated Installation >35' To 40', Add	12.34	
			For Elevated Installation >40', Add	13.57	
			For Work In Restricted Working Space, Add	7.40	
26 05 33 13-1251	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	375.40	14.65
			For Elevated Installation >10' To 15', Add	2.93	
			For Elevated Installation >15' To 20', Add	5.86	
			For Elevated Installation >20' To 25', Add	7.32	
			For Elevated Installation >25' To 30', Add	10.25	
			For Elevated Installation >30' To 35', Add	11.72	
			For Elevated Installation >35' To 40', Add	14.65	
			For Elevated Installation >40', Add	16.11	
			For Work In Restricted Working Space, Add	8.79	
26 05 33 13-1252	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	383.11	18.51
			For Elevated Installation >10' To 15', Add	3.70	
			For Elevated Installation >15' To 20', Add	7.40	
			For Elevated Installation >20' To 25', Add	9.25	
			For Elevated Installation >25' To 30', Add	12.95	
			For Elevated Installation >30' To 35', Add	14.80	
			For Elevated Installation >35' To 40', Add	18.50	
			For Elevated Installation >40', Add	20.35	
			For Work In Restricted Working Space, Add	11.10	
26 05 33 13-1253	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	576.01	20.81
			For Elevated Installation >10' To 15', Add	4.16	
			For Elevated Installation >15' To 20', Add	8.33	
			For Elevated Installation >20' To 25', Add	10.41	
			For Elevated Installation >25' To 30', Add	14.57	
			For Elevated Installation >30' To 35', Add	16.65	
			For Elevated Installation >35' To 40', Add	20.82	
			For Elevated Installation >40', Add	22.90	
			For Work In Restricted Working Space, Add	12.49	
26 05 33 13-1254	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover	588.34	26.99
			For Elevated Installation >10' To 15', Add	5.40	
			For Elevated Installation >15' To 20', Add	10.79	
			For Elevated Installation >20' To 25', Add	13.49	
			For Elevated Installation >25' To 30', Add	18.89	
			For Elevated Installation >30' To 35', Add	21.58	
			For Elevated Installation >35' To 40', Add	26.98	
			For Elevated Installation >40', Add	29.68	
			For Work In Restricted Working Space, Add	16.19	
26 05 33 13-1255			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0843)		
26 05 33 13-1256	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting	257.07	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
26 05 33 13-1257	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting	303.89	23.89
			For Elevated Installation >10' To 15', Add	4.78	
			For Elevated Installation >15' To 20', Add	9.56	
			For Elevated Installation >20' To 25', Add	11.95	
			For Elevated Installation >25' To 30', Add	16.73	
			For Elevated Installation >30' To 35', Add	19.12	
			For Elevated Installation >35' To 40', Add	23.90	
			For Elevated Installation >40', Add	26.29	
			For Work In Restricted Working Space, Add	14.34	
26 05 33 13-1258	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting	359.86	29.29
			For Elevated Installation >10' To 15', Add	5.86	
			For Elevated Installation >15' To 20', Add	11.72	
			For Elevated Installation >20' To 25', Add	14.65	
			For Elevated Installation >25' To 30', Add	20.51	
			For Elevated Installation >30' To 35', Add	23.44	
			For Elevated Installation >35' To 40', Add	29.30	
			For Elevated Installation >40', Add	32.22	
			For Work In Restricted Working Space, Add	17.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1259	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	443.01	33.92
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.57	
			For Elevated Installation >20' To 25', Add	16.96	
			For Elevated Installation >25' To 30', Add	23.74	
			For Elevated Installation >30' To 35', Add	27.14	
			For Elevated Installation >35' To 40', Add	33.92	
			For Elevated Installation >40', Add	37.31	
			For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1260	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	591.23	38.55
			For Elevated Installation >10' To 15', Add	7.71	
			For Elevated Installation >15' To 20', Add	15.42	
			For Elevated Installation >20' To 25', Add	19.27	
			For Elevated Installation >25' To 30', Add	26.98	
			For Elevated Installation >30' To 35', Add	30.84	
			For Elevated Installation >35' To 40', Add	38.55	
			For Elevated Installation >40', Add	42.40	
			For Work In Restricted Working Space, Add	23.13	
26 05 33 13-1261	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	817.01	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1262	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,165.77	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.92	
26 05 33 13-1263	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,450.47	72.47
			For Elevated Installation >10' To 15', Add	14.49	
			For Elevated Installation >15' To 20', Add	28.99	
			For Elevated Installation >20' To 25', Add	36.24	
			For Elevated Installation >25' To 30', Add	50.73	
			For Elevated Installation >30' To 35', Add	57.98	
			For Elevated Installation >35' To 40', Add	72.47	
			For Elevated Installation >40', Add	79.72	
			For Work In Restricted Working Space, Add	43.48	
26 05 33 13-1264	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,032.20	81.72
			For Elevated Installation >10' To 15', Add	16.34	
			For Elevated Installation >15' To 20', Add	32.69	
			For Elevated Installation >20' To 25', Add	40.86	
			For Elevated Installation >25' To 30', Add	57.20	
			For Elevated Installation >30' To 35', Add	65.37	
			For Elevated Installation >35' To 40', Add	81.72	
			For Elevated Installation >40', Add	89.89	
			For Work In Restricted Working Space, Add	49.03	
26 05 33 13-1265	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,343.94	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.11	
			For Elevated Installation >35' To 40', Add	106.39	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
26 05 33 13-1266			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper (26 05 33 13-0843)		
26 05 33 13-1267	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	406.78	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1268	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	422.97		23.89
	For Elevated Installation >10' To 15', Add	4.78		
	For Elevated Installation >15' To 20', Add	9.56		
	For Elevated Installation >20' To 25', Add	11.95		
	For Elevated Installation >25' To 30', Add	16.73		
	For Elevated Installation >30' To 35', Add	19.12		
	For Elevated Installation >35' To 40', Add	23.90		
	For Elevated Installation >40', Add	26.29		
	For Work In Restricted Working Space, Add	14.34		
26 05 33 13-1269	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	475.40		29.29
	For Elevated Installation >10' To 15', Add	5.86		
	For Elevated Installation >15' To 20', Add	11.72		
	For Elevated Installation >20' To 25', Add	14.65		
	For Elevated Installation >25' To 30', Add	20.51		
	For Elevated Installation >30' To 35', Add	23.44		
	For Elevated Installation >35' To 40', Add	29.30		
	For Elevated Installation >40', Add	32.22		
	For Work In Restricted Working Space, Add	17.58		
26 05 33 13-1270	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	575.04		33.92
	For Elevated Installation >10' To 15', Add	6.78		
	For Elevated Installation >15' To 20', Add	13.57		
	For Elevated Installation >20' To 25', Add	16.96		
	For Elevated Installation >25' To 30', Add	23.74		
	For Elevated Installation >30' To 35', Add	27.14		
	For Elevated Installation >35' To 40', Add	33.92		
	For Elevated Installation >40', Add	37.31		
	For Work In Restricted Working Space, Add	20.35		
26 05 33 13-1271	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	696.66		38.55
	For Elevated Installation >10' To 15', Add	7.71		
	For Elevated Installation >15' To 20', Add	15.42		
	For Elevated Installation >20' To 25', Add	19.27		
	For Elevated Installation >25' To 30', Add	26.98		
	For Elevated Installation >30' To 35', Add	30.84		
	For Elevated Installation >35' To 40', Add	38.55		
	For Elevated Installation >40', Add	42.40		
	For Work In Restricted Working Space, Add	23.13		
26 05 33 13-1272	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	889.59		42.40
	For Elevated Installation >10' To 15', Add	8.48		
	For Elevated Installation >15' To 20', Add	16.96		
	For Elevated Installation >20' To 25', Add	21.20		
	For Elevated Installation >25' To 30', Add	29.68		
	For Elevated Installation >30' To 35', Add	33.92		
	For Elevated Installation >35' To 40', Add	42.40		
	For Elevated Installation >40', Add	46.64		
	For Work In Restricted Working Space, Add	25.44		
26 05 33 13-1273	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,311.97		53.19
	For Elevated Installation >10' To 15', Add	10.64		
	For Elevated Installation >15' To 20', Add	21.28		
	For Elevated Installation >20' To 25', Add	26.60		
	For Elevated Installation >25' To 30', Add	37.24		
	For Elevated Installation >30' To 35', Add	42.56		
	For Elevated Installation >35' To 40', Add	53.20		
	For Elevated Installation >40', Add	58.51		
	For Work In Restricted Working Space, Add	31.92		
26 05 33 13-1274	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,645.84		72.47
	For Elevated Installation >10' To 15', Add	14.49		
	For Elevated Installation >15' To 20', Add	28.99		
	For Elevated Installation >20' To 25', Add	36.24		
	For Elevated Installation >25' To 30', Add	50.73		
	For Elevated Installation >30' To 35', Add	57.98		
	For Elevated Installation >35' To 40', Add	72.47		
	For Elevated Installation >40', Add	79.72		
	For Work In Restricted Working Space, Add	43.48		
26 05 33 13-1275	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,095.27		81.72
	For Elevated Installation >10' To 15', Add	16.34		
	For Elevated Installation >15' To 20', Add	32.69		
	For Elevated Installation >20' To 25', Add	40.86		
	For Elevated Installation >25' To 30', Add	57.20		
	For Elevated Installation >30' To 35', Add	65.37		
	For Elevated Installation >35' To 40', Add	81.72		
	For Elevated Installation >40', Add	89.89		
	For Work In Restricted Working Space, Add	49.03		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1276	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,623.26	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.11	
			For Elevated Installation >35' To 40', Add	106.39	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
26 05 33 13-1277 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0843)					
26 05 33 13-1278	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	85.37	9.25
			For Elevated Installation >10' To 15', Add	1.85	
			For Elevated Installation >15' To 20', Add	3.70	
			For Elevated Installation >20' To 25', Add	4.63	
			For Elevated Installation >25' To 30', Add	6.48	
			For Elevated Installation >30' To 35', Add	7.40	
			For Elevated Installation >35' To 40', Add	9.26	
			For Elevated Installation >40', Add	10.18	
			For Work In Restricted Working Space, Add	5.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1279	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	92.80	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.62	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.09	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.56	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1280	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	102.29	13.88
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.55	
			For Elevated Installation >20' To 25', Add	6.94	
			For Elevated Installation >25' To 30', Add	9.71	
			For Elevated Installation >30' To 35', Add	11.10	
			For Elevated Installation >35' To 40', Add	13.88	
			For Elevated Installation >40', Add	15.26	
			For Work In Restricted Working Space, Add	8.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.33	
26 05 33 13-1281	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	115.93	16.96
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.78	
			For Elevated Installation >20' To 25', Add	8.48	
			For Elevated Installation >25' To 30', Add	11.87	
			For Elevated Installation >30' To 35', Add	13.57	
			For Elevated Installation >35' To 40', Add	16.96	
			For Elevated Installation >40', Add	18.66	
			For Work In Restricted Working Space, Add	10.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33 13-1282	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	155.36	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-1283	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	189.52	21.59
			For Elevated Installation >10' To 15', Add	4.32	
			For Elevated Installation >15' To 20', Add	8.63	
			For Elevated Installation >20' To 25', Add	10.79	
			For Elevated Installation >25' To 30', Add	15.11	
			For Elevated Installation >30' To 35', Add	17.27	
			For Elevated Installation >35' To 40', Add	21.59	
			For Elevated Installation >40', Add	23.74	
			For Work In Restricted Working Space, Add	12.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	
26 05 33 13-1284	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	270.65	26.99
			For Elevated Installation >10' To 15', Add	5.40	
			For Elevated Installation >15' To 20', Add	10.79	
			For Elevated Installation >20' To 25', Add	13.49	
			For Elevated Installation >25' To 30', Add	18.89	
			For Elevated Installation >30' To 35', Add	21.58	
			For Elevated Installation >35' To 40', Add	26.98	
			For Elevated Installation >40', Add	29.68	
			For Work In Restricted Working Space, Add	16.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.19	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1285 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 353.50		36.23
For Elevated Installation >10' To 15', Add	7.25	
For Elevated Installation >15' To 20', Add	14.49	
For Elevated Installation >20' To 25', Add	18.12	
For Elevated Installation >25' To 30', Add	25.36	
For Elevated Installation >30' To 35', Add	28.99	
For Elevated Installation >35' To 40', Add	36.24	
For Elevated Installation >40', Add	39.86	
For Work In Restricted Working Space, Add	21.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74	
26 05 33 13-1286 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 450.48		40.86
For Elevated Installation >10' To 15', Add	8.17	
For Elevated Installation >15' To 20', Add	16.34	
For Elevated Installation >20' To 25', Add	20.43	
For Elevated Installation >25' To 30', Add	28.60	
For Elevated Installation >30' To 35', Add	32.69	
For Elevated Installation >35' To 40', Add	40.86	
For Elevated Installation >40', Add	44.95	
For Work In Restricted Working Space, Add	24.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.52	
26 05 33 13-1287 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 566.87		53.19
For Elevated Installation >10' To 15', Add	10.64	
For Elevated Installation >15' To 20', Add	21.28	
For Elevated Installation >20' To 25', Add	26.60	
For Elevated Installation >25' To 30', Add	37.24	
For Elevated Installation >30' To 35', Add	42.56	
For Elevated Installation >35' To 40', Add	53.20	
For Elevated Installation >40', Add	58.51	
For Work In Restricted Working Space, Add	31.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.92	
26 05 33 13-1288 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 708.20		86.34
For Elevated Installation >10' To 15', Add	17.27	
For Elevated Installation >15' To 20', Add	34.54	
For Elevated Installation >20' To 25', Add	43.17	
For Elevated Installation >25' To 30', Add	60.44	
For Elevated Installation >30' To 35', Add	69.07	
For Elevated Installation >35' To 40', Add	86.34	
For Elevated Installation >40', Add	94.97	
For Work In Restricted Working Space, Add	51.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.80	
26 05 33 13-1289 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub 1,068.10		130.28
For Elevated Installation >10' To 15', Add	26.06	
For Elevated Installation >15' To 20', Add	52.11	
For Elevated Installation >20' To 25', Add	65.14	
For Elevated Installation >25' To 30', Add	91.20	
For Elevated Installation >30' To 35', Add	104.23	
For Elevated Installation >35' To 40', Add	130.29	
For Elevated Installation >40', Add	143.31	
For Work In Restricted Working Space, Add	78.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.17	
26 05 33 13-1290 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0843)		
26 05 33 13-1291 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....127.90		9.25
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.70	
For Elevated Installation >20' To 25', Add	4.63	
For Elevated Installation >25' To 30', Add	6.48	
For Elevated Installation >30' To 35', Add	7.40	
For Elevated Installation >35' To 40', Add	9.26	
For Elevated Installation >40', Add	10.18	
For Work In Restricted Working Space, Add	5.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1292 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....135.63		11.56
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.62	
For Elevated Installation >20' To 25', Add	5.78	
For Elevated Installation >25' To 30', Add	8.09	
For Elevated Installation >30' To 35', Add	9.25	
For Elevated Installation >35' To 40', Add	11.56	
For Elevated Installation >40', Add	12.72	
For Work In Restricted Working Space, Add	6.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1293 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....146.06		13.88
For Elevated Installation >10' To 15', Add	2.78	
For Elevated Installation >15' To 20', Add	5.55	
For Elevated Installation >20' To 25', Add	6.94	
For Elevated Installation >25' To 30', Add	9.71	
For Elevated Installation >30' To 35', Add	11.10	
For Elevated Installation >35' To 40', Add	13.88	
For Elevated Installation >40', Add	15.26	
For Work In Restricted Working Space, Add	8.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1294	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.97 3.39 6.78 8.48 11.87 13.57 16.96 18.66 10.18 10.18	16.96
26 05 33 13-1295	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	179.46 3.86 7.71 9.64 13.49 15.42 19.28 21.20 11.57 11.57	19.27
26 05 33 13-1296	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.94 4.32 8.63 10.79 15.11 17.27 21.59 23.74 12.95 12.95	21.59
26 05 33 13-1297	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	308.33 5.40 10.79 13.49 18.89 21.58 26.98 29.68 16.19 16.19	26.99
26 05 33 13-1298	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	369.75 7.25 14.49 18.12 25.36 28.99 36.24 39.86 21.74 21.74	36.23
26 05 33 13-1299	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	453.99 8.17 16.34 20.43 28.60 32.69 40.86 44.95 24.52 24.52	40.86
26 05 33 13-1300	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	589.52 10.64 21.28 26.60 37.24 42.56 53.20 58.51 31.92 31.92	53.19
26 05 33 13-1301	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub..... <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	917.68 17.27 34.54 43.17 60.44 69.07 86.34 94.97 51.80 51.80	86.34

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1302 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,499.78	130.28
For Elevated Installation >10' To 15', Add	26.06	
For Elevated Installation >15' To 20', Add	52.11	
For Elevated Installation >20' To 25', Add	65.14	
For Elevated Installation >25' To 30', Add	91.20	
For Elevated Installation >30' To 35', Add	104.23	
For Elevated Installation >35' To 40', Add	130.29	
For Elevated Installation >40', Add	143.31	
For Work In Restricted Working Space, Add	78.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.17	
26 05 33 13-1303 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0843)		
26 05 33 13-1304 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	137.35	9.25
For Elevated Installation >10' To 15', Add	1.85	
For Elevated Installation >15' To 20', Add	3.70	
For Elevated Installation >20' To 25', Add	4.63	
For Elevated Installation >25' To 30', Add	6.48	
For Elevated Installation >30' To 35', Add	7.40	
For Elevated Installation >35' To 40', Add	9.26	
For Elevated Installation >40', Add	10.18	
For Work In Restricted Working Space, Add	5.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1305 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	144.61	11.56
For Elevated Installation >10' To 15', Add	2.31	
For Elevated Installation >15' To 20', Add	4.62	
For Elevated Installation >20' To 25', Add	5.78	
For Elevated Installation >25' To 30', Add	8.09	
For Elevated Installation >30' To 35', Add	9.25	
For Elevated Installation >35' To 40', Add	11.56	
For Elevated Installation >40', Add	12.72	
For Work In Restricted Working Space, Add	6.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1306 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	155.44	13.88
For Elevated Installation >10' To 15', Add	2.78	
For Elevated Installation >15' To 20', Add	5.55	
For Elevated Installation >20' To 25', Add	6.94	
For Elevated Installation >25' To 30', Add	9.71	
For Elevated Installation >30' To 35', Add	11.10	
For Elevated Installation >35' To 40', Add	13.88	
For Elevated Installation >40', Add	15.26	
For Work In Restricted Working Space, Add	8.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.33	
26 05 33 13-1307 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	195.45	16.96
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.78	
For Elevated Installation >20' To 25', Add	8.48	
For Elevated Installation >25' To 30', Add	11.87	
For Elevated Installation >30' To 35', Add	13.57	
For Elevated Installation >35' To 40', Add	16.96	
For Elevated Installation >40', Add	18.66	
For Work In Restricted Working Space, Add	10.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33 13-1308 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	213.83	19.27
For Elevated Installation >10' To 15', Add	3.86	
For Elevated Installation >15' To 20', Add	7.71	
For Elevated Installation >20' To 25', Add	9.64	
For Elevated Installation >25' To 30', Add	13.49	
For Elevated Installation >30' To 35', Add	15.42	
For Elevated Installation >35' To 40', Add	19.28	
For Elevated Installation >40', Add	21.20	
For Work In Restricted Working Space, Add	11.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-1309 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	226.66	21.59
For Elevated Installation >10' To 15', Add	4.32	
For Elevated Installation >15' To 20', Add	8.63	
For Elevated Installation >20' To 25', Add	10.79	
For Elevated Installation >25' To 30', Add	15.11	
For Elevated Installation >30' To 35', Add	17.27	
For Elevated Installation >35' To 40', Add	21.59	
For Elevated Installation >40', Add	23.74	
For Work In Restricted Working Space, Add	12.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	

26 05 33 13-1310 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0843)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1311	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	104.16 3.86 7.71 9.64 13.49 15.42 19.28 21.20 11.57	19.27
26 05 33 13-1312	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	114.61 4.78 9.56 11.95 16.73 19.12 23.90 26.29 14.34	23.89
26 05 33 13-1313	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	148.15 5.86 11.72 14.65 20.51 23.44 29.30 32.22 17.58	29.29
26 05 33 13-1314	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	211.98 6.78 13.57 16.96 23.74 27.14 33.92 37.31 20.35	33.92
26 05 33 13-1315	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	250.95 7.71 15.42 19.27 26.98 30.84 38.55 42.40 23.13	38.55
26 05 33 13-1316	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	316.49 8.48 16.96 21.20 29.68 33.92 42.40 46.64 25.44	42.40
26 05 33 13-1317	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	420.06 10.64 21.28 26.60 37.24 42.56 53.20 58.51 31.92	53.19
26 05 33 13-1318	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	538.83 10.64 21.28 26.60 37.24 42.56 53.20 58.51 31.92	53.19
26 05 33 13-1319	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	699.84 16.34 32.69 40.86 57.20 65.37 81.72 89.89 49.03	81.72

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1320 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	901.53	106.39
For Elevated Installation >10' To 15', Add	21.28	
For Elevated Installation >15' To 20', Add	42.55	
For Elevated Installation >20' To 25', Add	53.19	
For Elevated Installation >25' To 30', Add	74.47	
For Elevated Installation >30' To 35', Add	85.11	
For Elevated Installation >35' To 40', Add	106.39	
For Elevated Installation >40', Add	117.02	
For Work In Restricted Working Space, Add	63.83	
26 05 33 13-1321 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,634.29	173.46
For Elevated Installation >10' To 15', Add	34.69	
For Elevated Installation >15' To 20', Add	69.38	
For Elevated Installation >20' To 25', Add	86.73	
For Elevated Installation >25' To 30', Add	121.42	
For Elevated Installation >30' To 35', Add	138.76	
For Elevated Installation >35' To 40', Add	173.46	
For Elevated Installation >40', Add	190.80	
For Work In Restricted Working Space, Add	104.07	
26 05 33 13-1322 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	2,054.39	260.57
For Elevated Installation >10' To 15', Add	52.11	
For Elevated Installation >15' To 20', Add	104.23	
For Elevated Installation >20' To 25', Add	130.28	
For Elevated Installation >25' To 30', Add	182.40	
For Elevated Installation >30' To 35', Add	208.45	
For Elevated Installation >35' To 40', Add	260.57	
For Elevated Installation >40', Add	286.62	
For Work In Restricted Working Space, Add	156.34	
26 05 33 13-1323 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions (26 05 33 13-0843)		
26 05 33 13-1324 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	106.37	19.27
For Elevated Installation >10' To 15', Add	3.86	
For Elevated Installation >15' To 20', Add	7.71	
For Elevated Installation >20' To 25', Add	9.64	
For Elevated Installation >25' To 30', Add	13.49	
For Elevated Installation >30' To 35', Add	15.42	
For Elevated Installation >35' To 40', Add	19.28	
For Elevated Installation >40', Add	21.20	
For Work In Restricted Working Space, Add	11.57	
26 05 33 13-1325 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	123.05	23.89
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.29	
For Work In Restricted Working Space, Add	14.34	
26 05 33 13-1326 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	152.65	29.29
For Elevated Installation >10' To 15', Add	5.86	
For Elevated Installation >15' To 20', Add	11.72	
For Elevated Installation >20' To 25', Add	14.65	
For Elevated Installation >25' To 30', Add	20.51	
For Elevated Installation >30' To 35', Add	23.44	
For Elevated Installation >35' To 40', Add	29.30	
For Elevated Installation >40', Add	32.22	
For Work In Restricted Working Space, Add	17.58	
26 05 33 13-1327 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	220.24	33.92
For Elevated Installation >10' To 15', Add	6.78	
For Elevated Installation >15' To 20', Add	13.57	
For Elevated Installation >20' To 25', Add	16.96	
For Elevated Installation >25' To 30', Add	23.74	
For Elevated Installation >30' To 35', Add	27.14	
For Elevated Installation >35' To 40', Add	33.92	
For Elevated Installation >40', Add	37.31	
For Work In Restricted Working Space, Add	20.35	
26 05 33 13-1328 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	262.41	38.55
For Elevated Installation >10' To 15', Add	7.71	
For Elevated Installation >15' To 20', Add	15.42	
For Elevated Installation >20' To 25', Add	19.27	
For Elevated Installation >25' To 30', Add	26.98	
For Elevated Installation >30' To 35', Add	30.84	
For Elevated Installation >35' To 40', Add	38.55	
For Elevated Installation >40', Add	42.40	
For Work In Restricted Working Space, Add	23.13	
26 05 33 13-1329 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	341.25	42.40
For Elevated Installation >10' To 15', Add	8.48	
For Elevated Installation >15' To 20', Add	16.96	
For Elevated Installation >20' To 25', Add	21.20	
For Elevated Installation >25' To 30', Add	29.68	
For Elevated Installation >30' To 35', Add	33.92	
For Elevated Installation >35' To 40', Add	42.40	
For Elevated Installation >40', Add	46.64	
For Work In Restricted Working Space, Add	25.44	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1330	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	473.04	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.92	
26 05 33 13-1331	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	592.70	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.24	
			For Elevated Installation >30' To 35', Add	42.56	
			For Elevated Installation >35' To 40', Add	53.20	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.92	
26 05 33 13-1332	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	797.23	81.72
			For Elevated Installation >10' To 15', Add	16.34	
			For Elevated Installation >15' To 20', Add	32.69	
			For Elevated Installation >20' To 25', Add	40.86	
			For Elevated Installation >25' To 30', Add	57.20	
			For Elevated Installation >30' To 35', Add	65.37	
			For Elevated Installation >35' To 40', Add	81.72	
			For Elevated Installation >40', Add	89.89	
			For Work In Restricted Working Space, Add	49.03	
26 05 33 13-1333	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	998.57	106.39
			For Elevated Installation >10' To 15', Add	21.28	
			For Elevated Installation >15' To 20', Add	42.55	
			For Elevated Installation >20' To 25', Add	53.19	
			For Elevated Installation >25' To 30', Add	74.47	
			For Elevated Installation >30' To 35', Add	85.11	
			For Elevated Installation >35' To 40', Add	106.39	
			For Elevated Installation >40', Add	117.02	
			For Work In Restricted Working Space, Add	63.83	
26 05 33 13-1334	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,812.17	173.46
			For Elevated Installation >10' To 15', Add	34.69	
			For Elevated Installation >15' To 20', Add	69.38	
			For Elevated Installation >20' To 25', Add	86.73	
			For Elevated Installation >25' To 30', Add	121.42	
			For Elevated Installation >30' To 35', Add	138.76	
			For Elevated Installation >35' To 40', Add	173.46	
			For Elevated Installation >40', Add	190.80	
			For Work In Restricted Working Space, Add	104.07	
26 05 33 13-1335	EA	6"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,341.60	260.57
			For Elevated Installation >10' To 15', Add	52.11	
			For Elevated Installation >15' To 20', Add	104.23	
			For Elevated Installation >20' To 25', Add	130.28	
			For Elevated Installation >25' To 30', Add	182.40	
			For Elevated Installation >30' To 35', Add	208.45	
			For Elevated Installation >35' To 40', Add	260.57	
			For Elevated Installation >40', Add	286.62	
			For Work In Restricted Working Space, Add	156.34	
26 05 33 13-1336 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings					
(26 05 33 13-0843)					
26 05 33 13-1337	EA	3/4" x 1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	56.72	6.17
			For Elevated Installation >10' To 15', Add	1.23	
			For Elevated Installation >15' To 20', Add	2.47	
			For Elevated Installation >20' To 25', Add	3.08	
			For Elevated Installation >25' To 30', Add	4.32	
			For Elevated Installation >30' To 35', Add	4.93	
			For Elevated Installation >35' To 40', Add	6.17	
			For Elevated Installation >40', Add	6.78	
			For Work In Restricted Working Space, Add	3.70	
26 05 33 13-1338	EA	1" x 1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	62.47	7.71
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.86	
			For Elevated Installation >25' To 30', Add	5.40	
			For Elevated Installation >30' To 35', Add	6.17	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Work In Restricted Working Space, Add	4.63	
26 05 33 13-1339	EA	1" x 3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	70.76	7.71
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.08	
			For Elevated Installation >20' To 25', Add	3.86	
			For Elevated Installation >25' To 30', Add	5.40	
			For Elevated Installation >30' To 35', Add	6.17	
			For Elevated Installation >35' To 40', Add	7.71	
			For Elevated Installation >40', Add	8.48	
			For Work In Restricted Working Space, Add	4.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1340	EA		1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	87.17	8.48
			For Elevated Installation >10' To 15', Add	1.70	
			For Elevated Installation >15' To 20', Add	3.39	
			For Elevated Installation >20' To 25', Add	4.24	
			For Elevated Installation >25' To 30', Add	5.94	
			For Elevated Installation >30' To 35', Add	6.78	
			For Elevated Installation >35' To 40', Add	8.48	
			For Elevated Installation >40', Add	9.33	
			For Work In Restricted Working Space, Add	5.09	
26 05 33 13-1341	EA		1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	91.95	8.48
			For Elevated Installation >10' To 15', Add	1.70	
			For Elevated Installation >15' To 20', Add	3.39	
			For Elevated Installation >20' To 25', Add	4.24	
			For Elevated Installation >25' To 30', Add	5.94	
			For Elevated Installation >30' To 35', Add	6.78	
			For Elevated Installation >35' To 40', Add	8.48	
			For Elevated Installation >40', Add	9.33	
			For Work In Restricted Working Space, Add	5.09	
26 05 33 13-1342	EA		1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	79.70	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
26 05 33 13-1343	EA		1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	90.38	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
26 05 33 13-1344	EA		1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	138.40	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
26 05 33 13-1345	EA		2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	153.97	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.63	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.10	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.57	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
26 05 33 13-1346	EA		2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	149.83	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.63	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.10	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.57	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
26 05 33 13-1347	EA		2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	157.53	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.63	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.10	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.57	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
26 05 33 13-1348	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	176.90	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.63	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.10	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.57	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1349	EA		2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	176.31	13.88
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.55	
			For Elevated Installation >20' To 25', Add	6.94	
			For Elevated Installation >25' To 30', Add	9.71	
			For Elevated Installation >30' To 35', Add	11.10	
			For Elevated Installation >35' To 40', Add	13.88	
			For Elevated Installation >40', Add	15.26	
			For Work In Restricted Working Space, Add	8.33	
26 05 33 13-1350	EA		3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	225.24	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
26 05 33 13-1351	EA		3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	330.06	22.36
			For Elevated Installation >10' To 15', Add	4.47	
			For Elevated Installation >15' To 20', Add	8.94	
			For Elevated Installation >20' To 25', Add	11.18	
			For Elevated Installation >25' To 30', Add	15.65	
			For Elevated Installation >30' To 35', Add	17.88	
			For Elevated Installation >35' To 40', Add	22.36	
			For Elevated Installation >40', Add	24.59	
			For Work In Restricted Working Space, Add	13.41	
26 05 33 13-1352	EA		4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	441.85	30.84
			For Elevated Installation >10' To 15', Add	6.17	
			For Elevated Installation >15' To 20', Add	12.34	
			For Elevated Installation >20' To 25', Add	15.42	
			For Elevated Installation >25' To 30', Add	21.59	
			For Elevated Installation >30' To 35', Add	24.67	
			For Elevated Installation >35' To 40', Add	30.84	
			For Elevated Installation >40', Add	33.92	
			For Work In Restricted Working Space, Add	18.50	
26 05 33 13-1353	EA		5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	553.54	42.40
			For Elevated Installation >10' To 15', Add	8.48	
			For Elevated Installation >15' To 20', Add	16.96	
			For Elevated Installation >20' To 25', Add	21.20	
			For Elevated Installation >25' To 30', Add	29.68	
			For Elevated Installation >30' To 35', Add	33.92	
			For Elevated Installation >35' To 40', Add	42.40	
			For Elevated Installation >40', Add	46.64	
			For Work In Restricted Working Space, Add	25.44	
26 05 33 13-1354			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples (26 05 33 13-0843)		
26 05 33 13-1355	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	37.12	9.25
			For Elevated Installation >10' To 15', Add	1.85	
			For Elevated Installation >15' To 20', Add	3.70	
			For Elevated Installation >20' To 25', Add	4.63	
			For Elevated Installation >25' To 30', Add	6.48	
			For Elevated Installation >30' To 35', Add	7.40	
			For Elevated Installation >35' To 40', Add	9.26	
			For Elevated Installation >40', Add	10.18	
			For Work In Restricted Working Space, Add	5.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.55	
26 05 33 13-1356	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	42.08	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.62	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.09	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.56	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1357	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.30	14.65
			For Elevated Installation >10' To 15', Add	2.93	
			For Elevated Installation >15' To 20', Add	5.86	
			For Elevated Installation >20' To 25', Add	7.32	
			For Elevated Installation >25' To 30', Add	10.25	
			For Elevated Installation >30' To 35', Add	11.72	
			For Elevated Installation >35' To 40', Add	14.65	
			For Elevated Installation >40', Add	16.11	
			For Work In Restricted Working Space, Add	8.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1358	EA		1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	58.53	16.96
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.78	
			For Elevated Installation >20' To 25', Add	8.48	
			For Elevated Installation >25' To 30', Add	11.87	
			For Elevated Installation >30' To 35', Add	13.57	
			For Elevated Installation >35' To 40', Add	16.96	
			For Elevated Installation >40', Add	18.66	
			For Work In Restricted Working Space, Add	10.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33 13-1359	EA		1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.97	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-1360	EA		1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.04	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1361	EA		3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.63	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.62	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.09	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.56	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1362	EA		1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.86	14.65
			For Elevated Installation >10' To 15', Add	2.93	
			For Elevated Installation >15' To 20', Add	5.86	
			For Elevated Installation >20' To 25', Add	7.32	
			For Elevated Installation >25' To 30', Add	10.25	
			For Elevated Installation >30' To 35', Add	11.72	
			For Elevated Installation >35' To 40', Add	14.65	
			For Elevated Installation >40', Add	16.11	
			For Work In Restricted Working Space, Add	8.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	
26 05 33 13-1363	EA		1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.25	16.96
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.78	
			For Elevated Installation >20' To 25', Add	8.48	
			For Elevated Installation >25' To 30', Add	11.87	
			For Elevated Installation >30' To 35', Add	13.57	
			For Elevated Installation >35' To 40', Add	16.96	
			For Elevated Installation >40', Add	18.66	
			For Work In Restricted Working Space, Add	10.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33 13-1364	EA		1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.89	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-1365	EA		2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	72.79	21.59
			For Elevated Installation >10' To 15', Add	4.32	
			For Elevated Installation >15' To 20', Add	8.63	
			For Elevated Installation >20' To 25', Add	10.79	
			For Elevated Installation >25' To 30', Add	15.11	
			For Elevated Installation >30' To 35', Add	17.27	
			For Elevated Installation >35' To 40', Add	21.59	
			For Elevated Installation >40', Add	23.74	
			For Work In Restricted Working Space, Add	12.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1366	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	41.22	10.03
		For Elevated Installation >10' To 15', Add	2.00	
		For Elevated Installation >15' To 20', Add	4.01	
		For Elevated Installation >20' To 25', Add	5.01	
		For Elevated Installation >25' To 30', Add	7.01	
		For Elevated Installation >30' To 35', Add	8.02	
		For Elevated Installation >35' To 40', Add	10.02	
		For Elevated Installation >40', Add	11.02	
		For Work In Restricted Working Space, Add	6.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1367	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.80	11.56
		For Elevated Installation >10' To 15', Add	2.31	
		For Elevated Installation >15' To 20', Add	4.62	
		For Elevated Installation >20' To 25', Add	5.78	
		For Elevated Installation >25' To 30', Add	8.09	
		For Elevated Installation >30' To 35', Add	9.25	
		For Elevated Installation >35' To 40', Add	11.56	
		For Elevated Installation >40', Add	12.72	
		For Work In Restricted Working Space, Add	6.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1368	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	52.19	14.65
		For Elevated Installation >10' To 15', Add	2.93	
		For Elevated Installation >15' To 20', Add	5.86	
		For Elevated Installation >20' To 25', Add	7.32	
		For Elevated Installation >25' To 30', Add	10.25	
		For Elevated Installation >30' To 35', Add	11.72	
		For Elevated Installation >35' To 40', Add	14.65	
		For Elevated Installation >40', Add	16.11	
		For Work In Restricted Working Space, Add	8.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	
26 05 33 13-1369	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.60	16.96
		For Elevated Installation >10' To 15', Add	3.39	
		For Elevated Installation >15' To 20', Add	6.78	
		For Elevated Installation >20' To 25', Add	8.48	
		For Elevated Installation >25' To 30', Add	11.87	
		For Elevated Installation >30' To 35', Add	13.57	
		For Elevated Installation >35' To 40', Add	16.96	
		For Elevated Installation >40', Add	18.66	
		For Work In Restricted Working Space, Add	10.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33 13-1370	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.25	19.27
		For Elevated Installation >10' To 15', Add	3.86	
		For Elevated Installation >15' To 20', Add	7.71	
		For Elevated Installation >20' To 25', Add	9.64	
		For Elevated Installation >25' To 30', Add	13.49	
		For Elevated Installation >30' To 35', Add	15.42	
		For Elevated Installation >35' To 40', Add	19.28	
		For Elevated Installation >40', Add	21.20	
		For Work In Restricted Working Space, Add	11.57	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-1371	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	73.69	21.59
		For Elevated Installation >10' To 15', Add	4.32	
		For Elevated Installation >15' To 20', Add	8.63	
		For Elevated Installation >20' To 25', Add	10.79	
		For Elevated Installation >25' To 30', Add	15.11	
		For Elevated Installation >30' To 35', Add	17.26	
		For Elevated Installation >35' To 40', Add	21.58	
		For Elevated Installation >40', Add	23.74	
		For Work In Restricted Working Space, Add	12.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	
26 05 33 13-1372	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.63	10.03
		For Elevated Installation >10' To 15', Add	2.00	
		For Elevated Installation >15' To 20', Add	4.01	
		For Elevated Installation >20' To 25', Add	5.01	
		For Elevated Installation >25' To 30', Add	7.01	
		For Elevated Installation >30' To 35', Add	8.02	
		For Elevated Installation >35' To 40', Add	10.02	
		For Elevated Installation >40', Add	11.02	
		For Work In Restricted Working Space, Add	6.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1373	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.22	11.56
		For Elevated Installation >10' To 15', Add	2.31	
		For Elevated Installation >15' To 20', Add	4.62	
		For Elevated Installation >20' To 25', Add	5.78	
		For Elevated Installation >25' To 30', Add	8.09	
		For Elevated Installation >30' To 35', Add	9.25	
		For Elevated Installation >35' To 40', Add	11.56	
		For Elevated Installation >40', Add	12.72	
		For Work In Restricted Working Space, Add	6.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1374	EA	1" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.79	14.65
			For Elevated Installation >10' To 15', Add	2.93	
			For Elevated Installation >15' To 20', Add	5.86	
			For Elevated Installation >20' To 25', Add	7.32	
			For Elevated Installation >25' To 30', Add	10.25	
			For Elevated Installation >30' To 35', Add	11.72	
			For Elevated Installation >35' To 40', Add	14.65	
			For Elevated Installation >40', Add	16.11	
			For Work In Restricted Working Space, Add	8.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	
26 05 33 13-1375	EA	1-1/4" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.08	16.96
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.78	
			For Elevated Installation >20' To 25', Add	8.48	
			For Elevated Installation >25' To 30', Add	11.87	
			For Elevated Installation >30' To 35', Add	13.57	
			For Elevated Installation >35' To 40', Add	16.96	
			For Elevated Installation >40', Add	18.66	
			For Work In Restricted Working Space, Add	10.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33 13-1376	EA	1-1/2" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	68.88	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-1377	EA	2" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	76.54	21.59
			For Elevated Installation >10' To 15', Add	4.32	
			For Elevated Installation >15' To 20', Add	8.63	
			For Elevated Installation >20' To 25', Add	10.79	
			For Elevated Installation >25' To 30', Add	15.11	
			For Elevated Installation >30' To 35', Add	17.26	
			For Elevated Installation >35' To 40', Add	21.58	
			For Elevated Installation >40', Add	23.74	
			For Work In Restricted Working Space, Add	12.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	
26 05 33 13-1378	EA	2-1/2" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	105.40	26.21
			For Elevated Installation >10' To 15', Add	5.24	
			For Elevated Installation >15' To 20', Add	10.48	
			For Elevated Installation >20' To 25', Add	13.11	
			For Elevated Installation >25' To 30', Add	18.35	
			For Elevated Installation >30' To 35', Add	20.97	
			For Elevated Installation >35' To 40', Add	26.21	
			For Elevated Installation >40', Add	28.83	
			For Work In Restricted Working Space, Add	15.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.73	
26 05 33 13-1379	EA	3" x 3-1/2"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	137.28	36.23
			For Elevated Installation >10' To 15', Add	7.25	
			For Elevated Installation >15' To 20', Add	14.49	
			For Elevated Installation >20' To 25', Add	18.12	
			For Elevated Installation >25' To 30', Add	25.36	
			For Elevated Installation >30' To 35', Add	28.98	
			For Elevated Installation >35' To 40', Add	36.23	
			For Elevated Installation >40', Add	39.85	
			For Work In Restricted Working Space, Add	21.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74	
26 05 33 13-1380	EA	1/2" x 4"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.81	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1381	EA	3/4" x 4"	Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.55	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.62	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.09	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.56	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1382	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.14	14.65	
		For Elevated Installation >10' To 15', Add	2.93		
		For Elevated Installation >15' To 20', Add	5.86		
		For Elevated Installation >20' To 25', Add	7.32		
		For Elevated Installation >25' To 30', Add	10.25		
		For Elevated Installation >30' To 35', Add	11.72		
		For Elevated Installation >35' To 40', Add	14.65		
		For Elevated Installation >40', Add	16.11		
		For Work In Restricted Working Space, Add	8.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79		
26 05 33 13-1383	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	64.55	16.96	
		For Elevated Installation >10' To 15', Add	3.39		
		For Elevated Installation >15' To 20', Add	6.78		
		For Elevated Installation >20' To 25', Add	8.48		
		For Elevated Installation >25' To 30', Add	11.87		
		For Elevated Installation >30' To 35', Add	13.57		
		For Elevated Installation >35' To 40', Add	16.96		
		For Elevated Installation >40', Add	18.66		
		For Work In Restricted Working Space, Add	10.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18		
26 05 33 13-1384	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	70.50	19.27	
		For Elevated Installation >10' To 15', Add	3.86		
		For Elevated Installation >15' To 20', Add	7.71		
		For Elevated Installation >20' To 25', Add	9.64		
		For Elevated Installation >25' To 30', Add	13.49		
		For Elevated Installation >30' To 35', Add	15.42		
		For Elevated Installation >35' To 40', Add	19.28		
		For Elevated Installation >40', Add	21.20		
		For Work In Restricted Working Space, Add	11.57		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57		
26 05 33 13-1385	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	79.39	21.59	
		For Elevated Installation >10' To 15', Add	4.32		
		For Elevated Installation >15' To 20', Add	8.63		
		For Elevated Installation >20' To 25', Add	10.79		
		For Elevated Installation >25' To 30', Add	15.11		
		For Elevated Installation >30' To 35', Add	17.26		
		For Elevated Installation >35' To 40', Add	21.58		
		For Elevated Installation >40', Add	23.74		
		For Work In Restricted Working Space, Add	12.95		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95		
26 05 33 13-1386	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	107.91	26.21	
		For Elevated Installation >10' To 15', Add	5.24		
		For Elevated Installation >15' To 20', Add	10.48		
		For Elevated Installation >20' To 25', Add	13.11		
		For Elevated Installation >25' To 30', Add	18.35		
		For Elevated Installation >30' To 35', Add	20.97		
		For Elevated Installation >35' To 40', Add	26.21		
		For Elevated Installation >40', Add	28.83		
		For Work In Restricted Working Space, Add	15.73		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.73		
26 05 33 13-1387	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	142.70	36.23	
		For Elevated Installation >10' To 15', Add	7.25		
		For Elevated Installation >15' To 20', Add	14.49		
		For Elevated Installation >20' To 25', Add	18.12		
		For Elevated Installation >25' To 30', Add	25.36		
		For Elevated Installation >30' To 35', Add	28.98		
		For Elevated Installation >35' To 40', Add	36.23		
		For Elevated Installation >40', Add	39.85		
		For Work In Restricted Working Space, Add	21.74		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74		
26 05 33 13-1388	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	169.31	40.86	
		For Elevated Installation >10' To 15', Add	8.17		
		For Elevated Installation >15' To 20', Add	16.34		
		For Elevated Installation >20' To 25', Add	20.43		
		For Elevated Installation >25' To 30', Add	28.60		
		For Elevated Installation >30' To 35', Add	32.68		
		For Elevated Installation >35' To 40', Add	40.86		
		For Elevated Installation >40', Add	44.94		
		For Work In Restricted Working Space, Add	24.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.51		
26 05 33 13-1389	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	200.11	53.19	
		For Elevated Installation >10' To 15', Add	10.64		
		For Elevated Installation >15' To 20', Add	21.28		
		For Elevated Installation >20' To 25', Add	26.60		
		For Elevated Installation >25' To 30', Add	37.23		
		For Elevated Installation >30' To 35', Add	42.55		
		For Elevated Installation >35' To 40', Add	53.19		
		For Elevated Installation >40', Add	58.51		
		For Work In Restricted Working Space, Add	31.91		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1390	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.14	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33	13-1391	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.91	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.62	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.09	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.56	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33	13-1392	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	55.52	14.65
			For Elevated Installation >10' To 15', Add	2.93	
			For Elevated Installation >15' To 20', Add	5.86	
			For Elevated Installation >20' To 25', Add	7.32	
			For Elevated Installation >25' To 30', Add	10.25	
			For Elevated Installation >30' To 35', Add	11.72	
			For Elevated Installation >35' To 40', Add	14.65	
			For Elevated Installation >40', Add	16.11	
			For Work In Restricted Working Space, Add	8.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	
26 05 33	13-1393	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	65.24	16.96
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.78	
			For Elevated Installation >20' To 25', Add	8.48	
			For Elevated Installation >25' To 30', Add	11.87	
			For Elevated Installation >30' To 35', Add	13.57	
			For Elevated Installation >35' To 40', Add	16.96	
			For Elevated Installation >40', Add	18.66	
			For Work In Restricted Working Space, Add	10.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33	13-1394	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.22	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33	13-1395	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	80.94	21.59
			For Elevated Installation >10' To 15', Add	4.32	
			For Elevated Installation >15' To 20', Add	8.63	
			For Elevated Installation >20' To 25', Add	10.79	
			For Elevated Installation >25' To 30', Add	15.11	
			For Elevated Installation >30' To 35', Add	17.26	
			For Elevated Installation >35' To 40', Add	21.58	
			For Elevated Installation >40', Add	23.74	
			For Work In Restricted Working Space, Add	12.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	
26 05 33	13-1396	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	117.93	26.21
			For Elevated Installation >10' To 15', Add	5.24	
			For Elevated Installation >15' To 20', Add	10.48	
			For Elevated Installation >20' To 25', Add	13.11	
			For Elevated Installation >25' To 30', Add	18.35	
			For Elevated Installation >30' To 35', Add	20.97	
			For Elevated Installation >35' To 40', Add	26.21	
			For Elevated Installation >40', Add	28.83	
			For Work In Restricted Working Space, Add	15.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.73	
26 05 33	13-1397	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	150.81	36.23
			For Elevated Installation >10' To 15', Add	7.25	
			For Elevated Installation >15' To 20', Add	14.49	
			For Elevated Installation >20' To 25', Add	18.12	
			For Elevated Installation >25' To 30', Add	25.36	
			For Elevated Installation >30' To 35', Add	28.98	
			For Elevated Installation >35' To 40', Add	36.23	
			For Elevated Installation >40', Add	39.85	
			For Work In Restricted Working Space, Add	21.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1398	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	171.04	40.86	
		For Elevated Installation >10' To 15', Add	8.17		
		For Elevated Installation >15' To 20', Add	16.34		
		For Elevated Installation >20' To 25', Add	20.43		
		For Elevated Installation >25' To 30', Add	28.60		
		For Elevated Installation >30' To 35', Add	32.68		
		For Elevated Installation >35' To 40', Add	40.86		
		For Elevated Installation >40', Add	44.94		
		For Work In Restricted Working Space, Add	24.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.51		
26 05 33 13-1399	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	204.73	53.19	
		For Elevated Installation >10' To 15', Add	10.64		
		For Elevated Installation >15' To 20', Add	21.28		
		For Elevated Installation >20' To 25', Add	26.60		
		For Elevated Installation >25' To 30', Add	37.23		
		For Elevated Installation >30' To 35', Add	42.55		
		For Elevated Installation >35' To 40', Add	53.19		
		For Elevated Installation >40', Add	58.51		
		For Work In Restricted Working Space, Add	31.91		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91		
26 05 33 13-1400	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	299.45	73.24	
		For Elevated Installation >10' To 15', Add	14.65		
		For Elevated Installation >15' To 20', Add	29.29		
		For Elevated Installation >20' To 25', Add	36.62		
		For Elevated Installation >25' To 30', Add	51.26		
		For Elevated Installation >30' To 35', Add	58.58		
		For Elevated Installation >35' To 40', Add	73.23		
		For Elevated Installation >40', Add	80.55		
		For Work In Restricted Working Space, Add	43.94		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.94		
26 05 33 13-1401	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	44.77	10.03	
		For Elevated Installation >10' To 15', Add	2.00		
		For Elevated Installation >15' To 20', Add	4.01		
		For Elevated Installation >20' To 25', Add	5.01		
		For Elevated Installation >25' To 30', Add	7.01		
		For Elevated Installation >30' To 35', Add	8.02		
		For Elevated Installation >35' To 40', Add	10.02		
		For Elevated Installation >40', Add	11.02		
		For Work In Restricted Working Space, Add	6.01		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01		
26 05 33 13-1402	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.54	11.56	
		For Elevated Installation >10' To 15', Add	2.31		
		For Elevated Installation >15' To 20', Add	4.62		
		For Elevated Installation >20' To 25', Add	5.78		
		For Elevated Installation >25' To 30', Add	8.09		
		For Elevated Installation >30' To 35', Add	9.25		
		For Elevated Installation >35' To 40', Add	11.56		
		For Elevated Installation >40', Add	12.72		
		For Work In Restricted Working Space, Add	6.94		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94		
26 05 33 13-1403	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.21	14.65	
		For Elevated Installation >10' To 15', Add	2.93		
		For Elevated Installation >15' To 20', Add	5.86		
		For Elevated Installation >20' To 25', Add	7.32		
		For Elevated Installation >25' To 30', Add	10.25		
		For Elevated Installation >30' To 35', Add	11.72		
		For Elevated Installation >35' To 40', Add	14.65		
		For Elevated Installation >40', Add	16.11		
		For Work In Restricted Working Space, Add	8.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79		
26 05 33 13-1404	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.51	16.96	
		For Elevated Installation >10' To 15', Add	3.39		
		For Elevated Installation >15' To 20', Add	6.78		
		For Elevated Installation >20' To 25', Add	8.48		
		For Elevated Installation >25' To 30', Add	11.87		
		For Elevated Installation >30' To 35', Add	13.57		
		For Elevated Installation >35' To 40', Add	16.96		
		For Elevated Installation >40', Add	18.66		
		For Work In Restricted Working Space, Add	10.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18		
26 05 33 13-1405	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	72.74	19.27	
		For Elevated Installation >10' To 15', Add	3.86		
		For Elevated Installation >15' To 20', Add	7.71		
		For Elevated Installation >20' To 25', Add	9.64		
		For Elevated Installation >25' To 30', Add	13.49		
		For Elevated Installation >30' To 35', Add	15.42		
		For Elevated Installation >35' To 40', Add	19.28		
		For Elevated Installation >40', Add	21.20		
		For Work In Restricted Working Space, Add	11.57		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1406	EA		2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	82.49	21.59
			For Elevated Installation >10' To 15', Add	4.32	
			For Elevated Installation >15' To 20', Add	8.63	
			For Elevated Installation >20' To 25', Add	10.79	
			For Elevated Installation >25' To 30', Add	15.11	
			For Elevated Installation >30' To 35', Add	17.26	
			For Elevated Installation >35' To 40', Add	21.58	
			For Elevated Installation >40', Add	23.74	
			For Work In Restricted Working Space, Add	12.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	
26 05 33 13-1407	EA		2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	128.10	26.21
			For Elevated Installation >10' To 15', Add	5.24	
			For Elevated Installation >15' To 20', Add	10.48	
			For Elevated Installation >20' To 25', Add	13.11	
			For Elevated Installation >25' To 30', Add	18.35	
			For Elevated Installation >30' To 35', Add	20.97	
			For Elevated Installation >35' To 40', Add	26.21	
			For Elevated Installation >40', Add	28.83	
			For Work In Restricted Working Space, Add	15.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.73	
26 05 33 13-1408	EA		3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	161.59	36.23
			For Elevated Installation >10' To 15', Add	7.25	
			For Elevated Installation >15' To 20', Add	14.49	
			For Elevated Installation >20' To 25', Add	18.12	
			For Elevated Installation >25' To 30', Add	25.36	
			For Elevated Installation >30' To 35', Add	28.98	
			For Elevated Installation >35' To 40', Add	36.23	
			For Elevated Installation >40', Add	39.85	
			For Work In Restricted Working Space, Add	21.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74	
26 05 33 13-1409	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	180.75	40.86
			For Elevated Installation >10' To 15', Add	8.17	
			For Elevated Installation >15' To 20', Add	16.34	
			For Elevated Installation >20' To 25', Add	20.43	
			For Elevated Installation >25' To 30', Add	28.60	
			For Elevated Installation >30' To 35', Add	32.68	
			For Elevated Installation >35' To 40', Add	40.86	
			For Elevated Installation >40', Add	44.94	
			For Work In Restricted Working Space, Add	24.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.51	
26 05 33 13-1410	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	221.11	53.19
			For Elevated Installation >10' To 15', Add	10.64	
			For Elevated Installation >15' To 20', Add	21.28	
			For Elevated Installation >20' To 25', Add	26.60	
			For Elevated Installation >25' To 30', Add	37.23	
			For Elevated Installation >30' To 35', Add	42.55	
			For Elevated Installation >35' To 40', Add	53.19	
			For Elevated Installation >40', Add	58.51	
			For Work In Restricted Working Space, Add	31.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91	
26 05 33 13-1411	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	323.93	73.24
			For Elevated Installation >10' To 15', Add	14.65	
			For Elevated Installation >15' To 20', Add	29.29	
			For Elevated Installation >20' To 25', Add	36.62	
			For Elevated Installation >25' To 30', Add	51.26	
			For Elevated Installation >30' To 35', Add	58.58	
			For Elevated Installation >35' To 40', Add	73.23	
			For Elevated Installation >40', Add	80.55	
			For Work In Restricted Working Space, Add	43.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.94	
26 05 33 13-1412	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.77	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1413	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.51	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.62	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.09	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.56	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1414	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.74	14.65	
		For Elevated Installation >10' To 15', Add	2.93		
		For Elevated Installation >15' To 20', Add	5.86		
		For Elevated Installation >20' To 25', Add	7.32		
		For Elevated Installation >25' To 30', Add	10.25		
		For Elevated Installation >30' To 35', Add	11.72		
		For Elevated Installation >35' To 40', Add	14.65		
		For Elevated Installation >40', Add	16.11		
		For Work In Restricted Working Space, Add	8.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79		
26 05 33 13-1415	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	66.84	16.96	
		For Elevated Installation >10' To 15', Add	3.39		
		For Elevated Installation >15' To 20', Add	6.78		
		For Elevated Installation >20' To 25', Add	8.48		
		For Elevated Installation >25' To 30', Add	11.87		
		For Elevated Installation >30' To 35', Add	13.57		
		For Elevated Installation >35' To 40', Add	16.96		
		For Elevated Installation >40', Add	18.66		
		For Work In Restricted Working Space, Add	10.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18		
26 05 33 13-1416	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	75.84	19.27	
		For Elevated Installation >10' To 15', Add	3.86		
		For Elevated Installation >15' To 20', Add	7.71		
		For Elevated Installation >20' To 25', Add	9.64		
		For Elevated Installation >25' To 30', Add	13.49		
		For Elevated Installation >30' To 35', Add	15.42		
		For Elevated Installation >35' To 40', Add	19.28		
		For Elevated Installation >40', Add	21.20		
		For Work In Restricted Working Space, Add	11.57		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57		
26 05 33 13-1417	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	90.06	21.59	
		For Elevated Installation >10' To 15', Add	4.32		
		For Elevated Installation >15' To 20', Add	8.63		
		For Elevated Installation >20' To 25', Add	10.79		
		For Elevated Installation >25' To 30', Add	15.11		
		For Elevated Installation >30' To 35', Add	17.26		
		For Elevated Installation >35' To 40', Add	21.58		
		For Elevated Installation >40', Add	23.74		
		For Work In Restricted Working Space, Add	12.95		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95		
26 05 33 13-1418	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	140.61	26.21	
		For Elevated Installation >10' To 15', Add	5.24		
		For Elevated Installation >15' To 20', Add	10.48		
		For Elevated Installation >20' To 25', Add	13.11		
		For Elevated Installation >25' To 30', Add	18.35		
		For Elevated Installation >30' To 35', Add	20.97		
		For Elevated Installation >35' To 40', Add	26.21		
		For Elevated Installation >40', Add	28.83		
		For Work In Restricted Working Space, Add	15.73		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.73		
26 05 33 13-1419	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	176.33	36.23	
		For Elevated Installation >10' To 15', Add	7.25		
		For Elevated Installation >15' To 20', Add	14.49		
		For Elevated Installation >20' To 25', Add	18.12		
		For Elevated Installation >25' To 30', Add	25.36		
		For Elevated Installation >30' To 35', Add	28.98		
		For Elevated Installation >35' To 40', Add	36.23		
		For Elevated Installation >40', Add	39.85		
		For Work In Restricted Working Space, Add	21.74		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74		
26 05 33 13-1420	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	205.05	40.86	
		For Elevated Installation >10' To 15', Add	8.17		
		For Elevated Installation >15' To 20', Add	16.34		
		For Elevated Installation >20' To 25', Add	20.43		
		For Elevated Installation >25' To 30', Add	28.60		
		For Elevated Installation >30' To 35', Add	32.68		
		For Elevated Installation >35' To 40', Add	40.86		
		For Elevated Installation >40', Add	44.94		
		For Work In Restricted Working Space, Add	24.51		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.51		
26 05 33 13-1421	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	245.69	53.19	
		For Elevated Installation >10' To 15', Add	10.64		
		For Elevated Installation >15' To 20', Add	21.28		
		For Elevated Installation >20' To 25', Add	26.60		
		For Elevated Installation >25' To 30', Add	37.23		
		For Elevated Installation >30' To 35', Add	42.55		
		For Elevated Installation >35' To 40', Add	53.19		
		For Elevated Installation >40', Add	58.51		
		For Work In Restricted Working Space, Add	31.91		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1422	EA		5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	340.70	73.24
			For Elevated Installation >10' To 15', Add	14.65	
			For Elevated Installation >15' To 20', Add	29.29	
			For Elevated Installation >20' To 25', Add	36.62	
			For Elevated Installation >25' To 30', Add	51.26	
			For Elevated Installation >30' To 35', Add	58.58	
			For Elevated Installation >35' To 40', Add	73.23	
			For Elevated Installation >40', Add	80.55	
			For Work In Restricted Working Space, Add	43.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.94	
26 05 33 13-1423	EA		1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.81	10.03
			For Elevated Installation >10' To 15', Add	2.00	
			For Elevated Installation >15' To 20', Add	4.01	
			For Elevated Installation >20' To 25', Add	5.01	
			For Elevated Installation >25' To 30', Add	7.01	
			For Elevated Installation >30' To 35', Add	8.02	
			For Elevated Installation >35' To 40', Add	10.02	
			For Elevated Installation >40', Add	11.02	
			For Work In Restricted Working Space, Add	6.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1424	EA		3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.52	11.56
			For Elevated Installation >10' To 15', Add	2.31	
			For Elevated Installation >15' To 20', Add	4.62	
			For Elevated Installation >20' To 25', Add	5.78	
			For Elevated Installation >25' To 30', Add	8.09	
			For Elevated Installation >30' To 35', Add	9.25	
			For Elevated Installation >35' To 40', Add	11.56	
			For Elevated Installation >40', Add	12.72	
			For Work In Restricted Working Space, Add	6.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1425	EA		1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	59.24	14.65
			For Elevated Installation >10' To 15', Add	2.93	
			For Elevated Installation >15' To 20', Add	5.86	
			For Elevated Installation >20' To 25', Add	7.32	
			For Elevated Installation >25' To 30', Add	10.25	
			For Elevated Installation >30' To 35', Add	11.72	
			For Elevated Installation >35' To 40', Add	14.65	
			For Elevated Installation >40', Add	16.11	
			For Work In Restricted Working Space, Add	8.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	
26 05 33 13-1426	EA		1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	71.42	16.96
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.78	
			For Elevated Installation >20' To 25', Add	8.48	
			For Elevated Installation >25' To 30', Add	11.87	
			For Elevated Installation >30' To 35', Add	13.57	
			For Elevated Installation >35' To 40', Add	16.96	
			For Elevated Installation >40', Add	18.66	
			For Work In Restricted Working Space, Add	10.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	
26 05 33 13-1427	EA		1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	83.22	19.27
			For Elevated Installation >10' To 15', Add	3.86	
			For Elevated Installation >15' To 20', Add	7.71	
			For Elevated Installation >20' To 25', Add	9.64	
			For Elevated Installation >25' To 30', Add	13.49	
			For Elevated Installation >30' To 35', Add	15.42	
			For Elevated Installation >35' To 40', Add	19.28	
			For Elevated Installation >40', Add	21.20	
			For Work In Restricted Working Space, Add	11.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.57	
26 05 33 13-1428	EA		2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	101.20	21.59
			For Elevated Installation >10' To 15', Add	4.32	
			For Elevated Installation >15' To 20', Add	8.63	
			For Elevated Installation >20' To 25', Add	10.79	
			For Elevated Installation >25' To 30', Add	15.11	
			For Elevated Installation >30' To 35', Add	17.26	
			For Elevated Installation >35' To 40', Add	21.58	
			For Elevated Installation >40', Add	23.74	
			For Work In Restricted Working Space, Add	12.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	
26 05 33 13-1429	EA		2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	153.83	26.21
			For Elevated Installation >10' To 15', Add	5.24	
			For Elevated Installation >15' To 20', Add	10.48	
			For Elevated Installation >20' To 25', Add	13.11	
			For Elevated Installation >25' To 30', Add	18.35	
			For Elevated Installation >30' To 35', Add	20.97	
			For Elevated Installation >35' To 40', Add	26.21	
			For Elevated Installation >40', Add	28.83	
			For Work In Restricted Working Space, Add	15.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.73	



MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 05 33 13-1430	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	195.22	36.23
		For Elevated Installation >10' To 15', Add	7.25	
		For Elevated Installation >15' To 20', Add	14.49	
		For Elevated Installation >20' To 25', Add	18.12	
		For Elevated Installation >25' To 30', Add	25.36	
		For Elevated Installation >30' To 35', Add	28.98	
		For Elevated Installation >35' To 40', Add	36.23	
		For Elevated Installation >40', Add	39.85	
		For Work In Restricted Working Space, Add	21.74	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.74	
26 05 33 13-1431	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	230.58	40.86
		For Elevated Installation >10' To 15', Add	8.17	
		For Elevated Installation >15' To 20', Add	16.34	
		For Elevated Installation >20' To 25', Add	20.43	
		For Elevated Installation >25' To 30', Add	28.60	
		For Elevated Installation >30' To 35', Add	32.68	
		For Elevated Installation >35' To 40', Add	40.86	
		For Elevated Installation >40', Add	44.94	
		For Work In Restricted Working Space, Add	24.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.51	
26 05 33 13-1432	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	288.70	53.19
		For Elevated Installation >10' To 15', Add	10.64	
		For Elevated Installation >15' To 20', Add	21.28	
		For Elevated Installation >20' To 25', Add	26.60	
		For Elevated Installation >25' To 30', Add	37.23	
		For Elevated Installation >30' To 35', Add	42.55	
		For Elevated Installation >35' To 40', Add	53.19	
		For Elevated Installation >40', Add	58.51	
		For Work In Restricted Working Space, Add	31.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.91	
26 05 33 13-1433	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	374.18	73.24
		For Elevated Installation >10' To 15', Add	14.65	
		For Elevated Installation >15' To 20', Add	29.29	
		For Elevated Installation >20' To 25', Add	36.62	
		For Elevated Installation >25' To 30', Add	51.26	
		For Elevated Installation >30' To 35', Add	58.58	
		For Elevated Installation >35' To 40', Add	73.23	
		For Elevated Installation >40', Add	80.55	
		For Work In Restricted Working Space, Add	43.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.94	
26 05 33 13-1434	EA	1 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.88	10.03
		For Elevated Installation >10' To 15', Add	2.00	
		For Elevated Installation >15' To 20', Add	4.01	
		For Elevated Installation >20' To 25', Add	5.01	
		For Elevated Installation >25' To 30', Add	7.01	
		For Elevated Installation >30' To 35', Add	8.02	
		For Elevated Installation >35' To 40', Add	10.02	
		For Elevated Installation >40', Add	11.02	
		For Work In Restricted Working Space, Add	6.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.01	
26 05 33 13-1435	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.72	11.56
		For Elevated Installation >10' To 15', Add	2.31	
		For Elevated Installation >15' To 20', Add	4.62	
		For Elevated Installation >20' To 25', Add	5.78	
		For Elevated Installation >25' To 30', Add	8.09	
		For Elevated Installation >30' To 35', Add	9.25	
		For Elevated Installation >35' To 40', Add	11.56	
		For Elevated Installation >40', Add	12.72	
		For Work In Restricted Working Space, Add	6.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.94	
26 05 33 13-1436	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.05	14.65
		For Elevated Installation >10' To 15', Add	2.93	
		For Elevated Installation >15' To 20', Add	5.86	
		For Elevated Installation >20' To 25', Add	7.32	
		For Elevated Installation >25' To 30', Add	10.25	
		For Elevated Installation >30' To 35', Add	11.72	
		For Elevated Installation >35' To 40', Add	14.65	
		For Elevated Installation >40', Add	16.11	
		For Work In Restricted Working Space, Add	8.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.79	
26 05 33 13-1437	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	78.94	16.96
		For Elevated Installation >10' To 15', Add	3.99	
		For Elevated Installation >15' To 20', Add	6.78	
		For Elevated Installation >20' To 25', Add	8.48	
		For Elevated Installation >25' To 30', Add	11.87	
		For Elevated Installation >30' To 35', Add	13.57	
		For Elevated Installation >35' To 40', Add	16.96	
		For Elevated Installation >40', Add	18.66	
		For Work In Restricted Working Space, Add	10.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.18	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1438	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	92.14	19.27
		For Elevated Installation >10' To 15', Add	.....	3.86	
		For Elevated Installation >15' To 20', Add	.....	7.71	
		For Elevated Installation >20' To 25', Add	.....	9.64	
		For Elevated Installation >25' To 30', Add	.....	13.49	
		For Elevated Installation >30' To 35', Add	.....	15.42	
		For Elevated Installation >35' To 40', Add	.....	19.28	
		For Elevated Installation >40', Add	.....	21.20	
		For Work In Restricted Working Space, Add	.....	11.57	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	11.57	
26 05 33 13-1439	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	110.14	21.59
		For Elevated Installation >10' To 15', Add	.....	4.32	
		For Elevated Installation >15' To 20', Add	.....	8.63	
		For Elevated Installation >20' To 25', Add	.....	10.79	
		For Elevated Installation >25' To 30', Add	.....	15.11	
		For Elevated Installation >30' To 35', Add	.....	17.26	
		For Elevated Installation >35' To 40', Add	.....	21.58	
		For Elevated Installation >40', Add	.....	23.74	
		For Work In Restricted Working Space, Add	.....	12.95	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	12.95	
26 05 33 13-1440	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	171.47	26.21
		For Elevated Installation >10' To 15', Add	.....	5.24	
		For Elevated Installation >15' To 20', Add	.....	10.48	
		For Elevated Installation >20' To 25', Add	.....	13.11	
		For Elevated Installation >25' To 30', Add	.....	18.35	
		For Elevated Installation >30' To 35', Add	.....	20.97	
		For Elevated Installation >35' To 40', Add	.....	26.21	
		For Elevated Installation >40', Add	.....	28.83	
		For Work In Restricted Working Space, Add	.....	15.73	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	15.73	
26 05 33 13-1441	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	223.54	36.23
		For Elevated Installation >10' To 15', Add	.....	7.25	
		For Elevated Installation >15' To 20', Add	.....	14.49	
		For Elevated Installation >20' To 25', Add	.....	18.12	
		For Elevated Installation >25' To 30', Add	.....	25.36	
		For Elevated Installation >30' To 35', Add	.....	28.98	
		For Elevated Installation >35' To 40', Add	.....	36.23	
		For Elevated Installation >40', Add	.....	39.85	
		For Work In Restricted Working Space, Add	.....	21.74	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	21.74	
26 05 33 13-1442	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	246.24	40.86
		For Elevated Installation >10' To 15', Add	.....	8.17	
		For Elevated Installation >15' To 20', Add	.....	16.34	
		For Elevated Installation >20' To 25', Add	.....	20.43	
		For Elevated Installation >25' To 30', Add	.....	28.60	
		For Elevated Installation >30' To 35', Add	.....	32.68	
		For Elevated Installation >35' To 40', Add	.....	40.86	
		For Elevated Installation >40', Add	.....	44.94	
		For Work In Restricted Working Space, Add	.....	24.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	24.51	
26 05 33 13-1443	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	301.90	53.19
		For Elevated Installation >10' To 15', Add	.....	10.64	
		For Elevated Installation >15' To 20', Add	.....	21.28	
		For Elevated Installation >20' To 25', Add	.....	26.60	
		For Elevated Installation >25' To 30', Add	.....	37.23	
		For Elevated Installation >30' To 35', Add	.....	42.55	
		For Elevated Installation >35' To 40', Add	.....	53.19	
		For Elevated Installation >40', Add	.....	58.51	
		For Work In Restricted Working Space, Add	.....	31.91	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	31.91	
26 05 33 13-1444	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	378.96	73.24
		For Elevated Installation >10' To 15', Add	.....	14.65	
		For Elevated Installation >15' To 20', Add	.....	29.29	
		For Elevated Installation >20' To 25', Add	.....	36.62	
		For Elevated Installation >25' To 30', Add	.....	51.26	
		For Elevated Installation >30' To 35', Add	.....	58.58	
		For Elevated Installation >35' To 40', Add	.....	73.23	
		For Elevated Installation >40', Add	.....	80.55	
		For Work In Restricted Working Space, Add	.....	43.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	43.94	
26 05 33 13-1445		Aluminum Rigid Conduit (ARC) (26 05 33 13-0059)			
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.			
26 05 33 13-1446		Aluminum Rigid Conduit (ARC) With Threaded Coupling (26 05 33 13-1445)			
		Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".			
26 05 33 13-1447	LF	1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling	.....	7.01	2.37
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	.....	0.89	
		For Work In Restricted Working Space, Add	.....	1.78	
26 05 33 13-1448	LF	3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling	.....	7.96	2.61
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	.....	0.98	
		For Work In Restricted Working Space, Add	.....	1.96	
26 05 33 13-1449	LF	1" Aluminum Rigid Conduit (ARC) With Threaded Coupling	.....	9.17	2.85
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add		1.07	
		For Work In Restricted Working Space, Add		2.14	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
26 05 33 13-1450	LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		10.39 1.16 2.31	3.08
26 05 33 13-1451	LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		11.63 1.25 2.49	3.32
26 05 33 13-1452	LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		13.93 1.42 2.84	3.79
26 05 33 13-1453	LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		18.89 1.78 3.56	4.75
26 05 33 13-1454	LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		23.47 2.13 4.27	5.69
26 05 33 13-1455	LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		28.88 2.67 5.34	7.12
26 05 33 13-1456	LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		35.67 3.38 6.76	9.01
26 05 33 13-1457	LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		47.26 4.27 8.54	11.39
26 05 33 13-1458	LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>		60.33 5.34 10.67	14.23
26 05 33 13-1459 Aluminum 90 Degree Elbows (26 05 33 13-1445)				
26 05 33 13-1460	EA 1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		42.29 9.25	12.33
26 05 33 13-1461	EA 1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		53.18 10.49	14.00
26 05 33 13-1462	EA 1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		64.53 12.10	16.13
26 05 33 13-1463	EA 2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		81.89 13.88	18.51
26 05 33 13-1464	EA 2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		116.41 16.90	22.53
26 05 33 13-1465	EA 3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		165.73 21.88	29.17
26 05 33 13-1466	EA 3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		226.55 24.55	32.74
26 05 33 13-1467	EA 4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		274.18 30.78	41.04
26 05 33 13-1468	EA 5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		674.58 50.17	66.89
26 05 33 13-1469	EA 6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>		953.40 75.43	100.58
26 05 33 13-1470 Aluminum Bushing Set With Locknut (26 05 33 13-1445)				
26 05 33 13-1471	EA 1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.73 3.56 3.56	4.75
26 05 33 13-1472	EA 3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		18.92 4.62 4.62	6.17
26 05 33 13-1473	EA 1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		19.54 5.69 5.69	7.59
26 05 33 13-1474	EA 1-1/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		21.98 6.41 6.41	8.54
26 05 33 13-1475	EA 1-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		26.90 7.83 7.83	10.44
26 05 33 13-1476	EA 2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		32.76 9.43 9.43	12.57
26 05 33 13-1477	EA 2-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		40.08 11.21 11.21	14.94
26 05 33 13-1478	EA 3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		46.71 12.81 12.81	17.08
26 05 33 13-1479	EA 3-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		50.53 13.88 13.88	18.51
26 05 33 13-1480	EA 4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		54.96 14.95 14.95	19.92

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1481	EA	5" Aluminum Bushing Set With Locknut.....	72.85		26.56
		<i>For Work In Restricted Working Space, Add</i>	19.93		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.93		
26 05 33 13-1482	EA	6" Aluminum Bushing Set With Locknut.....	108.44		39.85
		<i>For Work In Restricted Working Space, Add</i>	29.89		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.89		
26 05 33 13-1483		Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0059)			
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.			
26 05 33 13-1484		Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1483)			
		Note: Includes field bending conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".			
26 05 33 13-1485	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	5.56		1.80
		<i>For Schedule 60, Add</i>	0.49		
		<i>For Schedule 80, Add</i>	0.82		
26 05 33 13-1486	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	6.35		1.98
		<i>For Schedule 60, Add</i>	0.60		
		<i>For Schedule 80, Add</i>	0.99		
26 05 33 13-1487	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	7.87		2.31
		<i>For Schedule 60, Add</i>	0.81		
		<i>For Schedule 80, Add</i>	1.31		
26 05 33 13-1488	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	9.39		2.64
		<i>For Schedule 60, Add</i>	1.03		
		<i>For Schedule 80, Add</i>	1.64		
26 05 33 13-1489	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	11.05		3.08
		<i>For Schedule 60, Add</i>	1.22		
		<i>For Schedule 80, Add</i>	1.94		
26 05 33 13-1490	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	13.21		3.52
		<i>For Schedule 60, Add</i>	1.54		
		<i>For Schedule 80, Add</i>	2.42		
26 05 33 13-1491	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	17.49		4.18
		<i>For Schedule 60, Add</i>	2.28		
		<i>For Schedule 80, Add</i>	3.51		
26 05 33 13-1492	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	20.49		4.84
		<i>For Schedule 60, Add</i>	2.70		
		<i>For Schedule 80, Add</i>	4.15		
26 05 33 13-1493	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	25.01		5.72
		<i>For Schedule 60, Add</i>	3.39		
		<i>For Schedule 80, Add</i>	5.18		
26 05 33 13-1494	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	29.38		7.04
		<i>For Schedule 60, Add</i>	3.83		
		<i>For Schedule 80, Add</i>	5.88		
26 05 33 13-1495	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	41.92		9.90
		<i>For Schedule 60, Add</i>	5.53		
		<i>For Schedule 80, Add</i>	8.48		
26 05 33 13-1496	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End	55.68		13.20
		<i>For Schedule 60, Add</i>	7.32		
		<i>For Schedule 80, Add</i>	11.24		
26 05 33 13-1497		Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1483)			
		See CSI section 26 05 33 13-2518 for conduit field bending.			
26 05 33 13-1498	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	23.54		8.80
		See CSI section 26 05 33 13-2518 for conduit field bending.			
		<i>For Schedule 60, Add</i>	1.49		
		<i>For Schedule 80, Add</i>	2.74		
26 05 33 13-1499	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	26.04		9.68
		See CSI section 26 05 33 13-2518 for conduit field bending.			
		<i>For Schedule 60, Add</i>	1.67		
		<i>For Schedule 80, Add</i>	3.06		
26 05 33 13-1500	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	30.38		11.00
		See CSI section 26 05 33 13-2518 for conduit field bending.			
		<i>For Schedule 60, Add</i>	2.10		
		<i>For Schedule 80, Add</i>	3.76		
26 05 33 13-1501	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	39.36		14.08
		See CSI section 26 05 33 13-2518 for conduit field bending.			
		<i>For Schedule 60, Add</i>	2.80		
		<i>For Schedule 80, Add</i>	4.98		
26 05 33 13-1502	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	49.64		17.60
		See CSI section 26 05 33 13-2518 for conduit field bending.			
		<i>For Schedule 60, Add</i>	3.61		
		<i>For Schedule 80, Add</i>	6.37		
26 05 33 13-1503	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	62.78		22.00
		See CSI section 26 05 33 13-2518 for conduit field bending.			
		<i>For Schedule 60, Add</i>	4.70		
		<i>For Schedule 80, Add</i>	8.23		
26 05 33 13-1504	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow	79.80		26.39
		See CSI section 26 05 33 13-2518 for conduit field bending.			
		<i>For Schedule 60, Add</i>	6.75		
		<i>For Schedule 80, Add</i>	11.43		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1505 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	99.56 9.49 15.60	30.80
26 05 33 13-1506 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	124.87 12.52 20.33	37.40
26 05 33 13-1507 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	150.36 15.59 25.13	44.00
26 05 33 13-1508 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	208.62 24.66 38.64	54.99
26 05 33 13-1509 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	255.66 30.92 48.23	66.00
26 05 33 13-1510 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1483)		
26 05 33 13-1511 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	23.54 1.49 2.74	8.80
26 05 33 13-1512 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	25.93 1.64 3.03	9.68
26 05 33 13-1513 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	30.23 2.06 3.71	11.00
26 05 33 13-1514 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	38.91 2.69 4.82	14.08
26 05 33 13-1515 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	48.64 3.36 6.02	17.60
26 05 33 13-1516 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	62.25 4.56 8.04	22.00
26 05 33 13-1517 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	78.79 6.50 11.08	26.39
26 05 33 13-1518 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	98.29 9.17 15.15	30.80
26 05 33 13-1519 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	121.30 11.63 19.08	37.40
26 05 33 13-1520 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	147.30 14.83 24.06	44.00
26 05 33 13-1521 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	204.65 23.66 37.25	54.99
26 05 33 13-1522 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2518 for conduit field bending. For Schedule 60, Add For Schedule 80, Add	243.82 27.96 44.09	66.00
26 05 33 13-1523 Schedule 40 Polyvinyl Chloride (PVC) Conduit 18" Large Radius Elbow (26 05 33 13-1493)		
26 05 33 13-1524 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... For Schedule 80, Add	87.17 15.86	29.29
26 05 33 13-1525 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... For Schedule 80, Add	102.03 18.75	33.92
26 05 33 13-1526 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... For Schedule 80, Add	115.55 21.17	38.55
26 05 33 13-1527 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... For Schedule 80, Add	136.33 26.52	42.40
26 05 33 13-1528 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow..... For Schedule 80, Add	178.53 35.89	53.19

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1529	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	234.07 45.69		72.47
26 05 33 13-1530	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	280.27 57.24		81.72
26 05 33 13-1531	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	338.08 65.14		106.39
26 05 33 13-1532 Schedule 40 Polyvinyl Chloride (PVC) Conduit 24" Large Radius Elbow (26 05					
33 13-1483)					
26 05 33 13-1533	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	92.42 17.70		29.29
26 05 33 13-1534	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	114.66 23.17		33.92
26 05 33 13-1535	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	133.63 27.50		38.55
26 05 33 13-1536	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	145.28 29.65		42.40
26 05 33 13-1537	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	206.11 45.54		53.19
26 05 33 13-1538	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	274.18 59.73		72.47
26 05 33 13-1539	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	304.96 65.88		81.72
26 05 33 13-1540	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow <i>For Schedule 80, Add</i>	367.97 75.60		106.39
26 05 33 13-1541 Schedule 40 Polyvinyl Chloride (PVC) Conduit 30" Large Radius Elbow (26 05					
33 13-1483)					
26 05 33 13-1542	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	106.57 22.65		29.29
26 05 33 13-1543	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	120.59 25.25		33.92
26 05 33 13-1544	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	137.11 28.72		38.55
26 05 33 13-1545	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	162.16 35.56		42.40
26 05 33 13-1546	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	216.38 49.14		53.19
26 05 33 13-1547	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	282.80 62.75		72.47
26 05 33 13-1548	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	337.83 77.38		81.72
26 05 33 13-1549	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow <i>For Schedule 80, Add</i>	397.49 85.93		106.39
26 05 33 13-1550 Schedule 40 Polyvinyl Chloride (PVC) Conduit 36" Large Radius Elbow (26 05					
33 13-1483)					
26 05 33 13-1551	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	109.46 23.66		29.29
26 05 33 13-1552	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	138.13 31.39		33.92
26 05 33 13-1553	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	151.03 33.59		38.55
26 05 33 13-1554	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	162.78 35.77		42.40
26 05 33 13-1555	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	239.01 57.06		53.19
26 05 33 13-1556	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	333.51 80.49		72.47
26 05 33 13-1557	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	384.01 93.55		81.72
26 05 33 13-1558	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	452.18 105.07		106.39
26 05 33 13-1559	EA	5" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	724.55 166.87		173.16
26 05 33 13-1560	EA	6" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow <i>For Schedule 80, Add</i>	1,062.82 241.70		260.92
26 05 33 13-1561 Schedule 40 Polyvinyl Chloride (PVC) Conduit 48" Large Radius Elbow (26 05					
33 13-1483)					
26 05 33 13-1562	EA	1" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	120.55 27.55		29.29
26 05 33 13-1563	EA	1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	141.10 32.43		33.92
26 05 33 13-1564	EA	1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	159.96 36.71		38.55
26 05 33 13-1565	EA	2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	193.62 46.57		42.40
26 05 33 13-1566	EA	2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow <i>For Schedule 80, Add</i>	261.10 64.79		53.19



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1567	EA	3" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	369.79	72.47
		For Schedule 80, Add	93.19	
26 05 33 13-1568	EA	3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	418.70	81.72
		For Schedule 80, Add	105.69	
26 05 33 13-1569	EA	4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	512.38	106.39
		For Schedule 80, Add	126.14	
26 05 33 13-1570	EA	5" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	759.77	173.16
		For Schedule 80, Add	179.19	
26 05 33 13-1571	EA	6" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	1,091.33	260.92
		For Schedule 80, Add	251.68	
26 05 33 13-1572 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1483)				
26 05 33 13-1573	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	16.11	6.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-1574	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter	18.56	7.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-1575	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter	21.12	7.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-1576	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter	23.82	8.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 05 33 13-1577	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	29.48	11.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-1578	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter	35.82	13.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.90	
26 05 33 13-1579	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	49.20	17.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.20	
26 05 33 13-1580	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter	62.08	22.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-1581	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	80.49	28.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.45	
26 05 33 13-1582	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter	97.40	35.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.40	
26 05 33 13-1583	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter	128.97	44.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.00	
26 05 33 13-1584	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter	160.40	54.99
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.25	
26 05 33 13-1585 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1483)				
26 05 33 13-1586	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	18.98	5.28
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.96	
26 05 33 13-1587	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	21.59	6.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-1588	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	24.23	7.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-1589	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	28.91	7.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-1590	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	32.23	8.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 05 33 13-1591	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	38.74	10.12
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-1592	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	43.33	11.44
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.58	
26 05 33 13-1593	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	49.02	13.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.90	
26 05 33 13-1594	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	58.10	15.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.55	
26 05 33 13-1595	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	64.02	17.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.20	
26 05 33 13-1596	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	81.20	19.80
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-1597	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	91.35	22.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-1598 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1483)				
26 05 33 13-1599	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	17.51	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.08	
26 05 33 13-1600	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	21.24	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.08	
26 05 33 13-1601	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	23.68	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-1602	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	26.63	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.53	
26 05 33 13-1603	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	29.23	11.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-1604	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	35.48	13.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.90	
26 05 33 13-1605	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	48.52	17.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.20	
26 05 33 13-1606	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	61.13	22.00
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1607 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	79.28	28.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.45	
26 05 33 13-1608 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	96.16	35.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.40	
26 05 33 13-1609 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	126.53	44.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.00	
26 05 33 13-1610 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	157.46	54.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.25	
26 05 33 13-1611 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1483)		
26 05 33 13-1612 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	50.61	17.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.20	
26 05 33 13-1613 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	58.85	19.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-1614 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	65.34	22.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-1615 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	80.78	26.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.80	
26 05 33 13-1616 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	99.80	33.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.75	
26 05 33 13-1617 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	129.67	39.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.70	
26 05 33 13-1618 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	225.09	44.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.00	
26 05 33 13-1619 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	240.09	48.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.30	
26 05 33 13-1620 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	260.58	54.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.25	
26 05 33 13-1621 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	290.61	63.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.85	
26 05 33 13-1622 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover (26 05 33 13-1483)		
26 05 33 13-1623 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	68.09	23.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.79	
26 05 33 13-1624 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	76.26	26.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57	
26 05 33 13-1625 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	82.43	28.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.35	
26 05 33 13-1626 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	103.38	33.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33 13-1627 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	124.84	40.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.24	
26 05 33 13-1628 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	153.73	47.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.58	
26 05 33 13-1629 Polyvinyl Chloride (PVC) Conduit Expansion Joint (26 05 33 13-1483)		
26 05 33 13-1630 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	111.46	22.00
26 05 33 13-1631 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	123.90	26.39
26 05 33 13-1632 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	137.17	30.80
26 05 33 13-1633 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	149.61	35.20
26 05 33 13-1634 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	161.69	39.60
26 05 33 13-1635 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	176.48	44.00
26 05 33 13-1636 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	216.39	50.60
26 05 33 13-1637 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	259.66	57.20
26 05 33 13-1638 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	304.04	66.00
26 05 33 13-1639 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	361.89	77.00
26 05 33 13-1640 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	479.70	92.40
26 05 33 13-1641 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	631.13	118.80
26 05 33 13-1642 Polyvinyl Chloride (PVC) Conduit End Caps (26 05 33 13-1483)		
26 05 33 13-1643 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	13.96	4.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.30	
26 05 33 13-1644 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	16.50	5.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.96	
26 05 33 13-1645 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap.....	18.97	6.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-1646 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	22.73	7.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-1647 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	26.55	7.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-1648 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap.....	31.43	8.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 05 33 13-1649 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	45.29	10.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-1650 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap.....	49.54	11.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.58	



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1651	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.64 9.57	12.76
26 05 33 13-1652	EA	4" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.29 10.23	13.64
26 05 33 13-1653	EA	5" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.89 11.55	15.40
26 05 33 13-1654	EA	6" Polyvinyl Chloride (PVC) Conduit End Cap..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.06 13.20	17.60
26 05 33 13-1655 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1483)				
26 05 33 13-1656	EA	2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.86 29.70	39.60
26 05 33 13-1657	EA	3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	144.47 19.80	26.39
26 05 33 13-1658	EA	1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	350.55 33.00	44.00
26 05 33 13-1659	EA	3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	682.92 47.85	63.80
26 05 33 13-1660 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0059)				
Note: Exposed installation. Excludes supporting strap, hanger and fastening.				
26 05 33 13-1661 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1660)				
Note: Includes field bending conduit up to and including 1".				
26 05 33 13-1662	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	8.51	1.80
26 05 33 13-1663	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	9.45	1.98
26 05 33 13-1664	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	10.54	2.29
26 05 33 13-1665	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	11.63	2.64
26 05 33 13-1666	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	13.13	3.08
26 05 33 13-1667	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	14.38	3.52
26 05 33 13-1668	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	17.13	4.18
26 05 33 13-1669	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	20.12	4.84
26 05 33 13-1670	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	23.31	5.72
26 05 33 13-1671	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	27.63	7.04
26 05 33 13-1672	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	37.27	9.90
26 05 33 13-1673	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	48.66	13.20
26 05 33 13-1674 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1660)				
26 05 33 13-1675	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	96.00 6.65 9.60 12.55	8.80
26 05 33 13-1676	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	107.05 7.42 10.71 13.99	9.68
26 05 33 13-1677	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	111.19 7.65 11.12 14.59	11.00
26 05 33 13-1678	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	119.70 8.10 11.97 15.84	14.08
26 05 33 13-1679	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	129.34 8.60 12.93 17.27	17.60
26 05 33 13-1680	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	152.10 10.03 15.21 20.39	22.00
26 05 33 13-1681	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	182.23 12.02 18.22 24.43	26.39
26 05 33 13-1682	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	216.48 14.31 21.65 28.99	30.80

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1683	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	250.42	37.40
			For 24" Radius, Add	16.44	
			For 36" Radius, Add	25.04	
			For 48" Radius, Add	33.64	
26 05 33 13-1684	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	284.35	44.00
			For 24" Radius, Add	18.58	
			For 36" Radius, Add	28.44	
			For 48" Radius, Add	38.29	
26 05 33 13-1685	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	355.44	54.99
			For 24" Radius, Add	23.22	
			For 36" Radius, Add	35.54	
			For 48" Radius, Add	47.87	
26 05 33 13-1686	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows.....	437.41	66.00
			For 24" Radius, Add	28.68	
			For 36" Radius, Add	43.74	
			For 48" Radius, Add	58.80	
26 05 33 13-1687 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1660)					
26 05 33 13-1688	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	82.68	8.80
			For 24" Radius, Add	5.65	
			For 36" Radius, Add	8.27	
			For 48" Radius, Add	10.89	
26 05 33 13-1689	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	92.13	9.68
			For 24" Radius, Add	6.30	
			For 36" Radius, Add	9.21	
			For 48" Radius, Add	12.12	
26 05 33 13-1690	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	96.12	11.00
			For 24" Radius, Add	6.52	
			For 36" Radius, Add	9.61	
			For 48" Radius, Add	12.70	
26 05 33 13-1691	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	104.49	14.08
			For 24" Radius, Add	6.96	
			For 36" Radius, Add	10.45	
			For 48" Radius, Add	13.94	
26 05 33 13-1692	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	113.98	17.60
			For 24" Radius, Add	7.45	
			For 36" Radius, Add	11.40	
			For 48" Radius, Add	15.35	
26 05 33 13-1693	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	134.62	22.00
			For 24" Radius, Add	8.72	
			For 36" Radius, Add	13.46	
			For 48" Radius, Add	18.20	
26 05 33 13-1694	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	161.31	26.39
			For 24" Radius, Add	10.45	
			For 36" Radius, Add	16.13	
			For 48" Radius, Add	21.81	
26 05 33 13-1695	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	191.37	30.80
			For 24" Radius, Add	12.43	
			For 36" Radius, Add	19.14	
			For 48" Radius, Add	25.85	
26 05 33 13-1696	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	222.17	37.40
			For 24" Radius, Add	14.33	
			For 36" Radius, Add	22.22	
			For 48" Radius, Add	30.11	
26 05 33 13-1697	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	252.97	44.00
			For 24" Radius, Add	16.22	
			For 36" Radius, Add	25.30	
			For 48" Radius, Add	34.37	
26 05 33 13-1698	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	316.21	54.99
			For 24" Radius, Add	20.28	
			For 36" Radius, Add	31.62	
			For 48" Radius, Add	42.96	
26 05 33 13-1699	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows.....	388.38	66.00
			For 24" Radius, Add	25.00	
			For 36" Radius, Add	38.84	
			For 48" Radius, Add	52.67	
26 05 33 13-1700 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1660)					
26 05 33 13-1701	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	76.78	7.92
			For 24" Radius, Add	5.26	
			For 36" Radius, Add	7.68	
			For 48" Radius, Add	10.09	
26 05 33 13-1702	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	85.57	8.71
			For 24" Radius, Add	5.87	
			For 36" Radius, Add	8.56	
			For 48" Radius, Add	11.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1703	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	89.19	9.90
			For 24" Radius, Add	6.07	
			For 36" Radius, Add	8.92	
			For 48" Radius, Add	11.77	
26 05 33 13-1704	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	96.75	12.67
			For 24" Radius, Add	6.46	
			For 36" Radius, Add	9.68	
			For 48" Radius, Add	12.89	
26 05 33 13-1705	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	105.31	15.84
			For 24" Radius, Add	6.91	
			For 36" Radius, Add	10.53	
			For 48" Radius, Add	14.15	
26 05 33 13-1706	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	124.28	19.80
			For 24" Radius, Add	8.08	
			For 36" Radius, Add	12.43	
			For 48" Radius, Add	16.77	
26 05 33 13-1707	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	148.90	23.76
			For 24" Radius, Add	9.68	
			For 36" Radius, Add	14.89	
			For 48" Radius, Add	20.10	
26 05 33 13-1708	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	176.70	27.72
			For 24" Radius, Add	11.52	
			For 36" Radius, Add	17.67	
			For 48" Radius, Add	23.82	
26 05 33 13-1709	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	204.98	33.66
			For 24" Radius, Add	13.27	
			For 36" Radius, Add	20.50	
			For 48" Radius, Add	27.73	
26 05 33 13-1710	EA	4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	233.25	39.60
			For 24" Radius, Add	15.02	
			For 36" Radius, Add	23.33	
			For 48" Radius, Add	31.63	
26 05 33 13-1711	EA	5"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	291.55	49.50
			For 24" Radius, Add	18.77	
			For 36" Radius, Add	29.16	
			For 48" Radius, Add	39.54	
26 05 33 13-1712	EA	6"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	358.26	59.40
			For 24" Radius, Add	23.16	
			For 36" Radius, Add	35.83	
			For 48" Radius, Add	48.49	
26 05 33 13-1713			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1660)		
26 05 33 13-1714	EA	1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	73.08	7.92
			For 24" Radius, Add	4.99	
			For 36" Radius, Add	7.31	
			For 48" Radius, Add	9.63	
26 05 33 13-1715	EA	3/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	81.43	8.71
			For 24" Radius, Add	5.56	
			For 36" Radius, Add	8.14	
			For 48" Radius, Add	10.72	
26 05 33 13-1716	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	85.01	9.90
			For 24" Radius, Add	5.76	
			For 36" Radius, Add	8.50	
			For 48" Radius, Add	11.25	
26 05 33 13-1717	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	92.52	12.67
			For 24" Radius, Add	6.15	
			For 36" Radius, Add	9.25	
			For 48" Radius, Add	12.36	
26 05 33 13-1718	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	101.05	15.84
			For 24" Radius, Add	6.59	
			For 36" Radius, Add	10.11	
			For 48" Radius, Add	13.62	
26 05 33 13-1719	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	119.42	19.80
			For 24" Radius, Add	7.72	
			For 36" Radius, Add	11.94	
			For 48" Radius, Add	16.17	
26 05 33 13-1720	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows	143.09	23.76
			For 24" Radius, Add	9.25	
			For 36" Radius, Add	14.31	
			For 48" Radius, Add	19.37	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1721	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	169.73	27.72
		For 24" Radius, Add	11.00	
		For 36" Radius, Add	16.97	
		For 48" Radius, Add	22.95	
26 05 33 13-1722	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	197.13	33.66
		For 24" Radius, Add	12.68	
		For 36" Radius, Add	19.71	
		For 48" Radius, Add	26.75	
26 05 33 13-1723	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	224.53	39.60
		For 24" Radius, Add	14.36	
		For 36" Radius, Add	22.45	
		For 48" Radius, Add	30.54	
26 05 33 13-1724	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	280.66	49.50
		For 24" Radius, Add	17.96	
		For 36" Radius, Add	28.07	
		For 48" Radius, Add	38.18	
26 05 33 13-1725	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	344.63	59.40
		For 24" Radius, Add	22.14	
		For 36" Radius, Add	34.46	
		For 48" Radius, Add	46.79	
26 05 33 13-1726 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1660)				
26 05 33 13-1727	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	46.04	6.16
26 05 33 13-1728	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	51.74	7.04
26 05 33 13-1729	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	54.29	7.92
26 05 33 13-1730	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	56.78	8.80
26 05 33 13-1731	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	62.98	11.00
26 05 33 13-1732	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	75.25	13.20
26 05 33 13-1733	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	94.85	17.60
26 05 33 13-1734	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	116.01	22.00
26 05 33 13-1735	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	140.14	28.60
26 05 33 13-1736	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	164.28	35.20
26 05 33 13-1737	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	205.34	44.00
26 05 33 13-1738	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	256.64	54.99
26 05 33 13-1739 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1660)				
26 05 33 13-1740	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	32.69	6.16
26 05 33 13-1741	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	36.81	7.04
26 05 33 13-1742	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	39.21	7.92
26 05 33 13-1743	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	41.62	8.80
26 05 33 13-1744	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	47.32	11.00
26 05 33 13-1745	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	52.94	13.20
26 05 33 13-1746	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	67.92	17.60
26 05 33 13-1747	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	83.70	22.00
26 05 33 13-1748	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	103.79	28.60
26 05 33 13-1749	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	123.89	35.20
26 05 33 13-1750	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	154.90	44.00
26 05 33 13-1751	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	193.58	54.99
26 05 33 13-1752 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1660)				
26 05 33 13-1753	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	36.89	5.06
26 05 33 13-1754	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	41.49	7.04
26 05 33 13-1755	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	43.95	7.92
26 05 33 13-1756	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	46.29	8.80
26 05 33 13-1757	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	52.35	11.00
26 05 33 13-1758	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	62.58	13.20
26 05 33 13-1759	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	79.48	17.60
26 05 33 13-1760	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	97.56	22.00
26 05 33 13-1761	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	119.38	28.60
26 05 33 13-1762	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	141.20	35.20
26 05 33 13-1763	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	176.49	44.00
26 05 33 13-1764	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	220.64	54.99
26 05 33 13-1765 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-1660)				
26 05 33 13-1766	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	78.67	22.00
26 05 33 13-1767	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	92.27	26.39
26 05 33 13-1768	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	103.56	30.80
26 05 33 13-1769	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	114.73	35.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1770 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	126.34	39.60
26 05 33 13-1771 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	142.54	44.00
26 05 33 13-1772 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	165.56	50.60
26 05 33 13-1773 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	189.87	57.20
26 05 33 13-1774 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	217.72	66.00
26 05 33 13-1775 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	251.07	77.00
26 05 33 13-1776 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	293.23	88.00
26 05 33 13-1777 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	339.03	99.00
26 05 33 13-1778 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-1660)		
26 05 33 13-1779 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	88.29	22.00
26 05 33 13-1780 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	103.05	26.39
26 05 33 13-1781 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	114.40	30.80
26 05 33 13-1782 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	125.69	35.20
26 05 33 13-1783 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	137.39	39.60
26 05 33 13-1784 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	155.16	44.00
26 05 33 13-1785 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	180.69	50.60
26 05 33 13-1786 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	208.03	57.20
26 05 33 13-1787 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	238.16	66.00
26 05 33 13-1788 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	273.80	77.00
26 05 33 13-1789 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	321.71	88.00
26 05 33 13-1790 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	374.62	99.00
26 05 33 13-1791 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-1660)		
26 05 33 13-1792 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	94.58	6.16
26 05 33 13-1793 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	105.56	7.04
26 05 33 13-1794 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	110.46	7.92
26 05 33 13-1795 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	115.48	8.80
26 05 33 13-1796 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	122.43	11.00
26 05 33 13-1797 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	136.97	13.20
26 05 33 13-1798 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	168.78	17.60
26 05 33 13-1799 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	204.64	22.00
26 05 33 13-1800 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	239.85	28.60
26 05 33 13-1801 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	275.08	35.20
26 05 33 13-1802 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	343.92	44.00
26 05 33 13-1803 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	428.08	54.99
26 05 33 13-1804 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1660)		
26 05 33 13-1805 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	105.01	22.00
26 05 33 13-1806 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	121.59	26.39
26 05 33 13-1807 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	145.67	30.80
26 05 33 13-1808 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	180.59	35.20
26 05 33 13-1809 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	225.92	39.60
26 05 33 13-1810 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	298.10	44.00
26 05 33 13-1811 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	422.49	50.60
26 05 33 13-1812 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	510.03	57.20
26 05 33 13-1813 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	616.38	66.00
26 05 33 13-1814 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	728.24	77.00
26 05 33 13-1815 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	856.38	88.00
26 05 33 13-1816 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,327.86	99.00
26 05 33 13-1817 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover (26 05 33 13-1660)		
26 05 33 13-1818 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	88.28	17.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.20	
26 05 33 13-1819 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	102.30	19.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-1820 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	135.50	22.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-1821 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	165.45	26.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.80	
26 05 33 13-1822 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	210.37	33.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.75	
26 05 33 13-1823 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	288.43	39.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.70	
26 05 33 13-1824 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	470.68	46.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.65	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1825	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	605.58	52.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.60	
26 05 33 13-1826	EA		3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover	728.22	61.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.20	
26 05 33 13-1827	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	850.86	70.40
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.80	
26 05 33 13-1828	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,003.09	79.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.40	
26 05 33 13-1829	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover	1,137.58	88.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.00	
26 05 33 13-1830			Explosion Proof Conduit Fittings (26 05 33 13-0059) Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1831			Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1830)		
26 05 33 13-1832	EA		1/2" Explosion Proof Malleable Iron Conduit Union	41.97	9.88
26 05 33 13-1833	EA		3/4" Explosion Proof Malleable Iron Conduit Union	51.08	10.93
26 05 33 13-1834	EA		1" Explosion Proof Malleable Iron Conduit Union	79.56	14.57
26 05 33 13-1835	EA		1-1/4" Explosion Proof Malleable Iron Conduit Union	103.63	16.13
26 05 33 13-1836	EA		1-1/2" Explosion Proof Malleable Iron Conduit Union	130.12	19.78
26 05 33 13-1837	EA		2" Explosion Proof Malleable Iron Conduit Union	161.16	22.89
26 05 33 13-1838	EA		2-1/2" Explosion Proof Malleable Iron Conduit Union	244.07	32.71
26 05 33 13-1839	EA		3" Explosion Proof Malleable Iron Conduit Union	308.80	38.94
26 05 33 13-1840	EA		3-1/2" Explosion Proof Malleable Iron Conduit Union	508.57	46.72
26 05 33 13-1841	EA		4" Explosion Proof Malleable Iron Conduit Union	544.84	59.70
26 05 33 13-1842			Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1830)		
26 05 33 13-1843	EA		1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	146.64	31.22
26 05 33 13-1844	EA		3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	165.40	35.38
26 05 33 13-1845	EA		1" Explosion Proof Malleable Iron Two Hub Conduit Conduit Body	192.41	39.03
26 05 33 13-1846	EA		1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	167.45	39.03
26 05 33 13-1847	EA		3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	199.69	46.83
26 05 33 13-1848	EA		1" Explosion Proof Malleable Iron Three Hub Conduit Body	235.35	53.60
26 05 33 13-1849			Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1830) Note: Includes sealing gasket and lock nut.		
26 05 33 13-1850	EA		1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	121.38	26.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.51	
26 05 33 13-1851	EA		3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	125.38	29.14
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.86	
26 05 33 13-1852	EA		1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	136.83	31.74
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.81	
26 05 33 13-1853	EA		1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	174.93	39.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.27	
26 05 33 13-1854	EA		1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	221.23	45.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.34	
26 05 33 13-1855	EA		2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	280.77	52.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.03	
26 05 33 13-1856	EA		2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	401.61	77.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.40	
26 05 33 13-1857	EA		3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	507.19	97.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.20	
26 05 33 13-1858	EA		3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	700.58	107.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.60	
26 05 33 13-1859	EA		4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical	892.68	116.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.61	
26 05 33 13-1860			Explosion Proof Flexible Conduit Couplings (26 05 33 13-1830)		
26 05 33 13-1861	EA		1/2" x 12" Explosion Proof Flexible Conduit Coupling	295.43	11.96
26 05 33 13-1862	EA		3/4" x 15" Explosion Proof Flexible Conduit Coupling	385.43	13.53
26 05 33 13-1863			Flexible Conduit (26 05 33 13-0058)		
26 05 33 13-1864			Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-1863) Note: Steel inner core with PVC cover.		
26 05 33 13-1865			Flexible Liquid Tight Metallic Conduit (26 05 33 13-1864)		
26 05 33 13-1866	LF		3/8" Flexible Liquid Tight Metallic Conduit	4.98	1.43
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	1.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1867	LF		1/2" Flexible Liquid Tight Metallic Conduit.....	5.19	1.43
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.53	
			For Work In Restricted Working Space, Add	1.07	
26 05 33 13-1868	LF		3/4" Flexible Liquid Tight Metallic Conduit.....	6.96	1.90
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.71	
			For Work In Restricted Working Space, Add	1.43	
26 05 33 13-1869	LF		1" Flexible Liquid Tight Metallic Conduit.....	8.09	1.90
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.71	
			For Work In Restricted Working Space, Add	1.43	
26 05 33 13-1870	LF		1-1/4" Flexible Liquid Tight Metallic Conduit.....	10.48	2.37
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.89	
			For Work In Restricted Working Space, Add	1.78	
26 05 33 13-1871	LF		1-1/2" Flexible Liquid Tight Metallic Conduit.....	13.50	2.85
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.07	
			For Work In Restricted Working Space, Add	2.14	
26 05 33 13-1872	LF		2" Flexible Liquid Tight Metallic Conduit.....	17.74	3.79
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.42	
			For Work In Restricted Working Space, Add	2.84	
26 05 33 13-1873	LF		2-1/2" Flexible Liquid Tight Metallic Conduit.....	24.32	4.27
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.60	
			For Work In Restricted Working Space, Add	3.20	
26 05 33 13-1874	LF		3" Flexible Liquid Tight Metallic Conduit.....	35.99	5.22
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.96	
			For Work In Restricted Working Space, Add	3.92	
26 05 33 13-1875	LF		4" Flexible Liquid Tight Metallic Conduit.....	49.36	6.64
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.49	
			For Work In Restricted Working Space, Add	4.98	
26 05 33 13-1876 Straight Liquid Tight Connector (26 05 33 13-1864)					
26 05 33 13-1877	EA		3/8" Straight Liquid Tight Connector.....	13.53	3.79
			For Work In Restricted Working Space, Add	2.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.84	
26 05 33 13-1878	EA		1/2" Straight Liquid Tight Connector.....	13.53	3.79
			For Work In Restricted Working Space, Add	2.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.84	
26 05 33 13-1879	EA		3/4" Straight Liquid Tight Connector.....	16.48	4.27
			For Work In Restricted Working Space, Add	3.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.20	
26 05 33 13-1880	EA		1" Straight Liquid Tight Connector.....	22.21	4.75
			For Work In Restricted Working Space, Add	3.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-1881	EA		1-1/4" Straight Liquid Tight Connector.....	28.69	5.22
			For Work In Restricted Working Space, Add	3.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-1882	EA		1-1/2" Straight Liquid Tight Connector.....	36.55	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-1883	EA		2" Straight Liquid Tight Connector.....	50.61	6.64
			For Work In Restricted Working Space, Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-1884	EA		2-1/2" Straight Liquid Tight Connector.....	175.71	8.54
			For Work In Restricted Working Space, Add	6.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	
26 05 33 13-1885	EA		3" Straight Liquid Tight Connector.....	226.95	9.01
			For Work In Restricted Working Space, Add	6.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-1886	EA		4" Straight Liquid Tight Connector.....	277.34	13.29
			For Work In Restricted Working Space, Add	9.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-1887 90 Degree Angle Liquid Tight Connector (26 05 33 13-1864)					
26 05 33 13-1888	EA		3/8" 90 Degree Angle Liquid Tight Connector.....	19.81	5.22
			For Work In Restricted Working Space, Add	3.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-1889	EA		1/2" 90 Degree Angle Liquid Tight Connector.....	20.68	5.22
			For Work In Restricted Working Space, Add	3.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-1890	EA		3/4" 90 Degree Angle Liquid Tight Connector.....	23.41	5.69
			For Work In Restricted Working Space, Add	4.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-1891	EA		1" 90 Degree Angle Liquid Tight Connector.....	33.30	6.64
			For Work In Restricted Working Space, Add	4.98	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-1892	EA		1-1/4" 90 Degree Angle Liquid Tight Connector.....	42.19	7.12
			For Work In Restricted Working Space, Add	5.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-1893	EA		1-1/2" 90 Degree Angle Liquid Tight Connector.....	51.39	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-1894	EA		2" 90 Degree Angle Liquid Tight Connector.....	68.28	8.54
			For Work In Restricted Working Space, Add	6.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1895 EA 2-1/2" 90 Degree Angle Liquid Tight Connector.....	246.05	9.01
For Work In Restricted Working Space, Add	6.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-1896 EA 3" 90 Degree Angle Liquid Tight Connector.....	290.79	10.44
For Work In Restricted Working Space, Add	7.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-1897 EA 4" 90 Degree Angle Liquid Tight Connector.....	401.83	16.61
For Work In Restricted Working Space, Add	12.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.45	
26 05 33 13-1898 45 Degree Angle Connector (26 05 33 13-1864)		
26 05 33 13-1899 EA 3/8" 45 Degree Angle Liquid Tight Connector.....	19.52	5.22
For Work In Restricted Working Space, Add	3.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-1900 EA 1/2" 45 Degree Angle Liquid Tight Connector.....	19.72	5.22
For Work In Restricted Working Space, Add	3.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-1901 EA 3/4" 45 Degree Angle Liquid Tight Connector.....	23.41	5.69
For Work In Restricted Working Space, Add	4.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-1902 EA 1" 45 Degree Angle Liquid Tight Connector.....	35.68	6.64
For Work In Restricted Working Space, Add	4.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.98	
26 05 33 13-1903 EA 1-1/4" 45 Degree Angle Liquid Tight Connector.....	40.65	7.12
For Work In Restricted Working Space, Add	5.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-1904 EA 1-1/2" 45 Degree Angle Liquid Tight Connector.....	45.64	7.59
For Work In Restricted Working Space, Add	5.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-1905 Flexible Metallic Conduit And Connectors (26 05 33 13-1863)		
26 05 33 13-1906 Flexible Steel Conduit (26 05 33 13-1905)		
26 05 33 13-1907 LF 3/8" Flexible Metallic Conduit.....	4.63	1.55
For Flexible Aluminum Conduit, Add	0.14	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.57	
For Installation In Metal Stud Wall, Add	0.38	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.95	
For Work In Restricted Working Space, Add	1.14	
26 05 33 13-1908 LF 1/2" Flexible Metallic Conduit.....	4.81	1.55
For Flexible Aluminum Conduit, Add	0.15	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.58	
For Installation In Metal Stud Wall, Add	0.39	
For Installation In Wood Stud Wall (Includes Drilling), Add	0.97	
For Work In Restricted Working Space, Add	1.17	
26 05 33 13-1909 LF 3/4" Flexible Metallic Conduit.....	5.47	2.08
For Flexible Aluminum Conduit, Add	0.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.63	
For Installation In Metal Stud Wall, Add	0.42	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.06	
For Work In Restricted Working Space, Add	1.27	
26 05 33 13-1910 LF 1" Flexible Metallic Conduit.....	6.87	2.08
For Flexible Aluminum Conduit, Add	0.38	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.68	
For Installation In Metal Stud Wall, Add	0.45	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.14	
For Work In Restricted Working Space, Add	1.36	
26 05 33 13-1911 LF 1-1/4" Flexible Metallic Conduit.....	7.84	2.60
For Flexible Aluminum Conduit, Add	0.50	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.72	
For Installation In Metal Stud Wall, Add	0.48	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.20	
For Work In Restricted Working Space, Add	1.44	
26 05 33 13-1912 LF 1-1/2" Flexible Metallic Conduit.....	10.33	3.12
For Flexible Aluminum Conduit, Add	0.88	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.75	
For Installation In Metal Stud Wall, Add	0.50	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.25	
For Work In Restricted Working Space, Add	1.50	
26 05 33 13-1913 LF 2" Flexible Metallic Conduit.....	11.74	4.15
For Flexible Aluminum Conduit, Add	1.08	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.78	
For Installation In Metal Stud Wall, Add	0.52	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.30	
For Work In Restricted Working Space, Add	1.56	
26 05 33 13-1914 LF 2-1/2" Flexible Steel Conduit.....	14.40	4.67
For Flexible Aluminum Conduit, Add	1.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.97	
For Installation In Metal Stud Wall, Add	0.65	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.62	
For Work In Restricted Working Space, Add	1.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1915	LF		3" Flexible Metallic Conduit.....	21.52	5.71
			For Flexible Aluminum Conduit, Add	2.27	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.17	
			For Installation In Metal Stud Wall, Add	0.78	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.95	
			For Work In Restricted Working Space, Add	2.33	
26 05 33 13-1916	LF		3-1/2" Flexible Metallic Conduit	26.41	6.23
			For Flexible Aluminum Conduit, Add	2.86	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.36	
			For Installation In Metal Stud Wall, Add	0.91	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.27	
			For Work In Restricted Working Space, Add	2.73	
26 05 33 13-1917	LF		4" Flexible Metallic Conduit.....	30.37	7.27
			For Flexible Aluminum Conduit, Add	3.30	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.56	
			For Installation In Metal Stud Wall, Add	1.04	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.60	
			For Work In Restricted Working Space, Add	3.11	
26 05 33 13-1918 Plain Squeeze Type Straight Connector (26 05 33 13-1905)					
26 05 33 13-1919	EA		3/8" Flexible Straight Connectors, Plain.....	7.95	4.15
			For Work In Restricted Working Space, Add	1.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.75	
26 05 33 13-1920	EA		1/2" Flexible Straight Connectors, Plain.....	9.84	4.67
			For Work In Restricted Working Space, Add	1.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1921	EA		3/4" Flexible Straight Connectors, Plain.....	11.31	5.71
			For Work In Restricted Working Space, Add	2.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33	
26 05 33 13-1922	EA		1" Flexible Straight Connectors, Plain.....	18.12	6.23
			For Work In Restricted Working Space, Add	3.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-1923	EA		1-1/4" Flexible Straight Connectors, Plain	25.65	7.27
			For Work In Restricted Working Space, Add	3.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-1924	EA		1-1/2" Flexible Straight Connectors, Plain	33.81	8.83
			For Work In Restricted Working Space, Add	4.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.87	
26 05 33 13-1925	EA		2" Flexible Straight Connectors, Plain.....	44.49	8.83
			For Work In Restricted Working Space, Add	5.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-1926	EA		2-1/2" Flexible Straight Connectors, Plain	71.86	10.90
			For Work In Restricted Working Space, Add	6.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.81	
26 05 33 13-1927	EA		3" Flexible Straight Connectors, Plain.....	94.10	11.94
			For Work In Restricted Working Space, Add	7.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1928	EA		3-1/2" Flexible Straight Connectors, Plain	292.74	14.01
			For Work In Restricted Working Space, Add	8.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.76	
26 05 33 13-1929	EA		4" Flexible Straight Connectors, Plain.....	365.85	17.13
			For Work In Restricted Working Space, Add	9.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 05 33 13-1930 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-1905)					
26 05 33 13-1931	EA		1/2" Flexible Straight Connectors, Insulated.....	10.99	4.67
			For Work In Restricted Working Space, Add	1.95	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1932	EA		3/4" Flexible Straight Connectors, Insulated.....	12.82	5.71
			For Work In Restricted Working Space, Add	2.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33	
26 05 33 13-1933	EA		1" Flexible Straight Connectors, Insulated.....	20.18	6.23
			For Work In Restricted Working Space, Add	3.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-1934	EA		1-1/4" Flexible Straight Connectors, Insulated.....	29.43	7.27
			For Work In Restricted Working Space, Add	3.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-1935	EA		1-1/2" Flexible Straight Connectors, Insulated.....	40.54	7.78
			For Work In Restricted Working Space, Add	4.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.87	
26 05 33 13-1936	EA		2" Flexible Straight Connectors, Insulated.....	56.37	8.83
			For Work In Restricted Working Space, Add	5.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-1937	EA		2-1/2" Flexible Straight Connectors, Insulated.....	97.27	10.90
			For Work In Restricted Working Space, Add	6.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.81	
26 05 33 13-1938	EA		3" Flexible Straight Connectors, Insulated.....	124.06	11.94
			For Work In Restricted Working Space, Add	7.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-1939	EA		3-1/2" Flexible Straight Connectors, Insulated.....	338.91	14.01
			For Work In Restricted Working Space, Add	8.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.76	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1940	EA	4" Flexible Straight Connectors, Insulated	435.28		17.13
		For Work In Restricted Working Space, Add	9.74		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74		
26 05 33 13-1941 Plain Squeeze Type 90 Degree Connector (26 05 33 13-1905)					
26 05 33 13-1942	EA	3/8" Flexible 90 Degree Connector, Plain	11.16		5.20
		For Work In Restricted Working Space, Add	2.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33		
26 05 33 13-1943	EA	1/2" Flexible 90 Degree Connector, Plain	14.74		5.71
		For Work In Restricted Working Space, Add	2.73		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.73		
26 05 33 13-1944	EA	3/4" Flexible 90 Degree Connector, Plain	19.23		6.23
		For Work In Restricted Working Space, Add	3.11		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11		
26 05 33 13-1945	EA	1" Flexible 90 Degree Connector, Plain	26.95		7.27
		For Work In Restricted Working Space, Add	3.89		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89		
26 05 33 13-1946	EA	1-1/4" Flexible 90 Degree Connector, Plain	42.10		7.78
		For Work In Restricted Working Space, Add	4.67		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67		
26 05 33 13-1947	EA	1-1/2" Flexible 90 Degree Connector, Plain	65.82		9.09
		For Work In Restricted Working Space, Add	5.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84		
26 05 33 13-1948	EA	2" Flexible 90 Degree Connector, Plain	79.38		11.16
		For Work In Restricted Working Space, Add	6.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62		
26 05 33 13-1949	EA	2-1/2" Flexible 90 Degree Connector, Plain	175.35		11.94
		For Work In Restricted Working Space, Add	7.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79		
26 05 33 13-1950	EA	3" Flexible 90 Degree Connector, Plain	225.32		14.01
		For Work In Restricted Working Space, Add	8.76		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.76		
26 05 33 13-1951	EA	3-1/2" Flexible 90 Degree Connector, Plain	478.45		17.13
		For Work In Restricted Working Space, Add	9.74		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74		
26 05 33 13-1952	EA	4" Flexible 90 Degree Connector, Plain	855.07		19.47
		For Work In Restricted Working Space, Add	11.68		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68		
26 05 33 13-1953 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-1905)					
26 05 33 13-1954	EA	1/2" Flexible 90 Degree Connector, Insulated	16.34		5.71
		For Work In Restricted Working Space, Add	2.73		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.73		
26 05 33 13-1955	EA	3/4" Flexible 90 Degree Connector, Insulated	21.20		6.23
		For Work In Restricted Working Space, Add	3.11		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11		
26 05 33 13-1956	EA	1" Flexible 90 Degree Connector, Insulated	26.95		7.27
		For Work In Restricted Working Space, Add	3.89		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89		
26 05 33 13-1957	EA	1-1/4" Flexible 90 Degree Connector, Insulated	49.11		7.78
		For Work In Restricted Working Space, Add	4.67		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67		
26 05 33 13-1958	EA	1-1/2" Flexible 90 Degree Connector, Insulated	78.55		9.09
		For Work In Restricted Working Space, Add	5.84		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84		
26 05 33 13-1959	EA	2" Flexible 90 Degree Connector, Insulated	100.08		11.16
		For Work In Restricted Working Space, Add	6.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62		
26 05 33 13-1960	EA	2-1/2" Flexible 90 Degree Connector, Insulated	240.05		11.94
		For Work In Restricted Working Space, Add	7.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79		
26 05 33 13-1961	EA	3" Flexible 90 Degree Connector, Insulated	295.42		14.01
		For Work In Restricted Working Space, Add	8.76		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.76		
26 05 33 13-1962	EA	3-1/2" Flexible 90 Degree Connector, Insulated	796.16		17.13
		For Work In Restricted Working Space, Add	9.74		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74		
26 05 33 13-1963	EA	4" Flexible 90 Degree Connector, Insulated	1,187.83		19.47
		For Work In Restricted Working Space, Add	11.68		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68		
26 05 33 13-1964 Plain Squeeze Type 45 Degree Connector (26 05 33 13-1905)					
26 05 33 13-1965	EA	3/8" Flexible 45 Degree Connector, Plain	12.45		5.20
		For Work In Restricted Working Space, Add	2.33		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33		
26 05 33 13-1966	EA	1/2" Flexible 45 Degree Connector, Plain	16.81		5.71
		For Work In Restricted Working Space, Add	2.73		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.73		
26 05 33 13-1967	EA	3/4" Flexible 45 Degree Connector, Plain	21.54		6.23
		For Work In Restricted Working Space, Add	3.11		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1968 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-1905)		
26 05 33 13-1969 EA 3/8" Flexible 45 Degree Connector, Insulated	13.34	6.23
For Work In Restricted Working Space, Add	2.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33	
26 05 33 13-1970 EA 1/2" Flexible 45 Degree Connector, Insulated	18.27	5.71
For Work In Restricted Working Space, Add	2.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.73	
26 05 33 13-1971 EA 3/4" Flexible 45 Degree Connector, Insulated	23.61	6.23
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-1972 Plain Screw-In Connector (26 05 33 13-1905)		
26 05 33 13-1973 EA 3/8" Flexible Steel Screw-in Connector, Plain.....	6.62	4.15
For Work In Restricted Working Space, Add	1.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.75	
26 05 33 13-1974 EA 1/2" Flexible Steel Screw-in Connector, Plain.....	7.14	4.67
For Work In Restricted Working Space, Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1975 EA 3/4" Flexible Steel Screw-in Connector, Plain.....	9.09	5.71
For Work In Restricted Working Space, Add	2.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33	
26 05 33 13-1976 EA 1" Flexible Steel Screw-in Connector, Plain.....	13.02	6.23
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-1977 EA 1-1/4" Flexible Steel Screw-in Connector, Plain	19.16	7.27
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-1978 EA 1-1/2" Flexible Steel Screw-in Connector, Plain	23.42	7.78
For Work In Restricted Working Space, Add	4.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.87	
26 05 33 13-1979 EA 2" Flexible Steel Screw-in Connector, Plain.....	34.41	8.83
For Work In Restricted Working Space, Add	5.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-1980 Insulated Screw-In Connector (26 05 33 13-1905)		
26 05 33 13-1981 EA 3/8" Flexible Steel Screw-in Connector, Insulated	7.00	4.15
For Work In Restricted Working Space, Add	1.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.75	
26 05 33 13-1982 EA 1/2" Flexible Steel Screw-in Connector, Insulated	7.44	4.67
For Work In Restricted Working Space, Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1983 EA 3/4" Flexible Steel Screw-in Connector, Insulated	9.88	5.71
For Work In Restricted Working Space, Add	2.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33	
26 05 33 13-1984 EA 1" Flexible Steel Screw-in Connector, Insulated	14.22	6.23
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-1985 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated	20.86	7.27
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-1986 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated	25.46	7.78
For Work In Restricted Working Space, Add	4.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.87	
26 05 33 13-1987 EA 2" Flexible Steel Screw-in Connector, Insulated	36.21	8.83
For Work In Restricted Working Space, Add	5.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-1988 Screw-In Coupling (26 05 33 13-1905)		
26 05 33 13-1989 EA 1/2" Flexible Steel Screw-in Coupling	7.89	4.67
For Work In Restricted Working Space, Add	1.95	
26 05 33 13-1990 EA 3/4" Flexible Steel Screw-in Coupling	10.33	5.71
For Work In Restricted Working Space, Add	2.33	
26 05 33 13-1991 Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-1905)		
26 05 33 13-1992 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	10.59	4.15
For Work In Restricted Working Space, Add	1.75	
26 05 33 13-1993 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	14.41	4.67
For Work In Restricted Working Space, Add	1.95	
26 05 33 13-1994 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	19.04	5.71
For Work In Restricted Working Space, Add	2.33	
26 05 33 13-1995 Die Cast Squeeze Type Straight Connector (26 05 33 13-1905)		
26 05 33 13-1996 EA 3/8" Flexible Straight Connector, Die Cast.....	6.86	4.15
For Work In Restricted Working Space, Add	1.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.75	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1997 EA 1/2" Flexible Straight Connector, Die Cast.....	7.76	4.67
For Work In Restricted Working Space, Add	1.95	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.95	
26 05 33 13-1998 EA 3/4" Flexible Straight Connector, Die Cast.....	9.62	5.71
For Work In Restricted Working Space, Add	2.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33	
26 05 33 13-1999 EA 1" Flexible Straight Connector, Die Cast.....	14.49	6.23
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2000 EA 1-1/4" Flexible Straight Connector, Die Cast.....	19.52	7.27
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-2001 EA 1-1/2" Flexible Straight Connector, Die Cast.....	26.49	7.78
For Work In Restricted Working Space, Add	4.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.87	
26 05 33 13-2002 EA 2" Flexible Straight Connector, Die Cast.....	34.24	8.83
For Work In Restricted Working Space, Add	5.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-2003 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-1905)		
26 05 33 13-2004 EA 3/8" Flexible 90 Degree Connector, Die Cast.....	9.08	5.20
For Work In Restricted Working Space, Add	2.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.33	
26 05 33 13-2005 EA 1/2" Flexible 90 Degree Connector, Die Cast.....	11.27	5.71
For Work In Restricted Working Space, Add	2.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.73	
26 05 33 13-2006 EA 3/4" Flexible 90 Degree Connector, Die Cast.....	13.66	6.23
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2007 EA 1" Flexible 90 Degree Connector, Die Cast.....	21.65	7.27
For Work In Restricted Working Space, Add	3.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.89	
26 05 33 13-2008 EA 1-1/4" Flexible 90 Degree Connector, Die Cast.....	30.72	7.78
For Work In Restricted Working Space, Add	4.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.67	
26 05 33 13-2009 EA 1-1/2" Flexible 90 Degree Connector, Die Cast.....	47.72	9.09
For Work In Restricted Working Space, Add	5.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.84	
26 05 33 13-2010 EA 2" Flexible 90 Degree Connector, Die Cast.....	57.06	11.16
For Work In Restricted Working Space, Add	6.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-2011 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-1863)		
26 05 33 13-2012 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2011)		
26 05 33 13-2013 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit.....	4.46	1.43
For Work In Restricted Working Space, Add	1.07	
26 05 33 13-2014 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit.....	4.54	1.43
For Work In Restricted Working Space, Add	1.07	
26 05 33 13-2015 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit.....	6.10	1.90
For Work In Restricted Working Space, Add	1.43	
26 05 33 13-2016 LF 1" Flexible Liquid Tight Non-Metallic Conduit.....	7.49	1.90
For Work In Restricted Working Space, Add	1.43	
26 05 33 13-2017 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit.....	9.49	2.37
For Work In Restricted Working Space, Add	1.78	
26 05 33 13-2018 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit.....	12.08	2.85
For Work In Restricted Working Space, Add	2.14	
26 05 33 13-2019 LF 2" Flexible Liquid Tight Non-Metallic Conduit.....	15.52	3.79
For Work In Restricted Working Space, Add	2.84	
26 05 33 13-2020 Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2011)		
26 05 33 13-2021 EA 3/8" Liquid Tight Non-Metallic Straight Connector.....	12.81	3.79
For Work In Restricted Working Space, Add	2.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.84	
26 05 33 13-2022 EA 1/2" Liquid Tight Non-Metallic Straight Connector.....	12.81	3.79
For Work In Restricted Working Space, Add	2.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.84	
26 05 33 13-2023 EA 3/4" Liquid Tight Non-Metallic Straight Connector.....	15.61	4.27
For Work In Restricted Working Space, Add	3.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.20	
26 05 33 13-2024 EA 1" Liquid Tight Non-Metallic Straight Connector.....	19.27	4.75
For Work In Restricted Working Space, Add	3.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-2025 EA 1-1/4" Liquid Tight Non-Metallic Straight Connector.....	26.34	5.22
For Work In Restricted Working Space, Add	3.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.92	
26 05 33 13-2026 EA 1-1/2" Liquid Tight Non-Metallic Straight Connector.....	32.73	5.69
For Work In Restricted Working Space, Add	4.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2027 EA 2" Liquid Tight Non-Metallic Straight Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.55 4.98 4.98	6.64
26 05 33 13-2028 Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2011)		
26 05 33 13-2029 EA 3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47 3.92 3.92	5.22
26 05 33 13-2030 EA 1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47 3.92 3.92	5.22
26 05 33 13-2031 EA 3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.57 4.27 4.27	5.69
26 05 33 13-2032 EA 1" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.66 4.98 4.98	6.64
26 05 33 13-2033 EA 1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.76 5.34 5.34	7.12
26 05 33 13-2034 EA 1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.08 5.69 5.69	7.59
26 05 33 13-2035 EA 2" Liquid Tight Non-Metallic 90 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.32 6.41 6.41	8.54
26 05 33 13-2036 Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-2011)		
26 05 33 13-2037 EA 3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47 3.92 3.92	5.22
26 05 33 13-2038 EA 1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.47 3.92 3.92	5.22
26 05 33 13-2039 EA 3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.57 4.27 4.27	5.69
26 05 33 13-2040 EA 1" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.66 4.98 4.98	6.64
26 05 33 13-2041 EA 1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.76 5.34 5.34	7.12
26 05 33 13-2042 EA 1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.08 5.69 5.69	7.59
26 05 33 13-2043 EA 2" Liquid Tight Non-Metallic 45 Degree Angle Connector For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.32 6.41 6.41	8.54
26 05 33 13-2044 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-1863) Note: Carlon - FLEX-PLUS.		
26 05 33 13-2045 Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2044)		
26 05 33 13-2046 LF 1/2" Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	5.55 1.17	1.55
26 05 33 13-2047 LF 3/4" Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	7.52 1.56	2.08
26 05 33 13-2048 LF 1" Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	8.94 1.56	2.08
26 05 33 13-2049 Terminal Adapter (26 05 33 13-2044)		
26 05 33 13-2050 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.11 3.11 3.11	4.15
26 05 33 13-2051 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.67 3.50 3.50	4.67
26 05 33 13-2052 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40 3.89 3.89	5.20
26 05 33 13-2053 Coupling (26 05 33 13-2044)		
26 05 33 13-2054 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	12.76 3.11	4.15
26 05 33 13-2055 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	14.77 3.50	4.67
26 05 33 13-2056 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing For Work In Restricted Working Space, Add	17.61 3.89	5.20

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-2057	Conduit Installed Below Grade ^(26 05 33 13-0058) Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33 13-2058	Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial ^(26 05 33 13-2057)		
26 05 33 13-2059	Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial ^(26 05 33 13-2058) Note: Includes field bend conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-2060	LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	4.63	
	For Schedule 60, Add	0.44	
	For Schedule 80, Add	0.73	
26 05 33 13-2061	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	5.25	
	For Schedule 60, Add	0.54	
	For Schedule 80, Add	0.88	
26 05 33 13-2062	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.22	
	For Schedule 60, Add	0.73	
	For Schedule 80, Add	1.15	
26 05 33 13-2063	LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.19	
	For Schedule 60, Add	0.92	
	For Schedule 80, Add	1.42	
26 05 33 13-2064	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	8.02	
	For Schedule 60, Add	1.07	
	For Schedule 80, Add	1.64	
26 05 33 13-2065	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	9.36	
	For Schedule 60, Add	1.35	
	For Schedule 80, Add	2.04	
26 05 33 13-2066	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	12.26	
	For Schedule 60, Add	2.02	
	For Schedule 80, Add	2.99	
26 05 33 13-2067	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	13.89	
	For Schedule 60, Add	2.37	
	For Schedule 80, Add	3.49	
26 05 33 13-2068	LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	16.49	
	For Schedule 60, Add	2.97	
	For Schedule 80, Add	4.33	
26 05 33 13-2069	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	17.83	
	For Schedule 60, Add	3.25	
	For Schedule 80, Add	4.73	
26 05 33 13-2070	LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	23.50	
	For Schedule 60, Add	4.61	
	For Schedule 80, Add	6.64	
26 05 33 13-2071	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	29.28	
	For Schedule 60, Add	6.00	
	For Schedule 80, Add	8.60	
26 05 33 13-2072	Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial ^(26 05 33 13-2058) See CSI section 26 05 33 13-2518 for conduit field bending.		
26 05 33 13-2073	EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	29.04	
	For Schedule 60, Add	1.76	
	For Schedule 80, Add	3.29	
26 05 33 13-2074	EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	34.84	
	For Schedule 60, Add	2.11	
	For Schedule 80, Add	3.94	
26 05 33 13-2075	EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	41.37	
	For Schedule 60, Add	2.64	
	For Schedule 80, Add	4.86	
26 05 33 13-2076	EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	48.16	
	For Schedule 60, Add	3.24	
	For Schedule 80, Add	5.86	
26 05 33 13-2077	EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	55.14	
	For Schedule 60, Add	3.89	
	For Schedule 80, Add	6.92	
26 05 33 13-2078	EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	62.78	
	For Schedule 60, Add	4.70	
	For Schedule 80, Add	8.23	
26 05 33 13-2079	EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	74.30	
	For Schedule 60, Add	6.48	
	For Schedule 80, Add	10.88	
26 05 33 13-2080	EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	88.56	
	For Schedule 60, Add	8.94	
	For Schedule 80, Add	14.50	
26 05 33 13-2081	EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	108.37	
	For Schedule 60, Add	11.69	
	For Schedule 80, Add	18.68	
26 05 33 13-2082	EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	128.36	
	For Schedule 60, Add	14.49	
	For Schedule 80, Add	22.93	
26 05 33 13-2083	EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial.....	170.12	
	For Schedule 60, Add	22.73	
	For Schedule 80, Add	34.79	



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2084	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	200.67	
		For Schedule 60, Add	28.17	
		For Schedule 80, Add	42.73	
26 05 33 13-2085 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial (26 05 33 13-2058)				
See CSI section 26 05 33 13-2518 for conduit field bending.				
26 05 33 13-2086	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	29.04	
		For Schedule 60, Add	1.76	
		For Schedule 80, Add	3.29	
26 05 33 13-2087	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	34.73	
		For Schedule 60, Add	2.08	
		For Schedule 80, Add	3.91	
26 05 33 13-2088	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	41.22	
		For Schedule 60, Add	2.61	
		For Schedule 80, Add	4.80	
26 05 33 13-2089	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	47.71	
		For Schedule 60, Add	3.13	
		For Schedule 80, Add	5.70	
26 05 33 13-2090	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	54.14	
		For Schedule 60, Add	3.64	
		For Schedule 80, Add	6.57	
26 05 33 13-2091	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	62.25	
		For Schedule 60, Add	4.56	
		For Schedule 80, Add	8.04	
26 05 33 13-2092	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	73.29	
		For Schedule 60, Add	6.22	
		For Schedule 80, Add	10.53	
26 05 33 13-2093	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	87.29	
		For Schedule 60, Add	8.62	
		For Schedule 80, Add	14.05	
26 05 33 13-2094	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	104.80	
		For Schedule 60, Add	10.80	
		For Schedule 80, Add	17.43	
26 05 33 13-2095	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	125.30	
		For Schedule 60, Add	13.73	
		For Schedule 80, Add	21.86	
26 05 33 13-2096	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	166.15	
		For Schedule 60, Add	21.74	
		For Schedule 80, Add	33.40	
26 05 33 13-2097	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	188.83	
		For Schedule 60, Add	25.21	
		For Schedule 80, Add	38.59	
26 05 33 13-2098 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial (26 05 33 13-2058)				
26 05 33 13-2099	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	16.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-2100	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	18.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-2101	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	21.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.94	
26 05 33 13-2102	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	23.82	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.60	
26 05 33 13-2103	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	26.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.26	
26 05 33 13-2104	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	29.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-2105	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	34.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.91	
26 05 33 13-2106	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	40.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.90	
26 05 33 13-2107	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	47.49	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.55	
26 05 33 13-2108	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	53.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.20	
26 05 33 13-2109	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	68.47	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.85	
26 05 33 13-2110	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	77.89	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.50	
26 05 33 13-2111 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial (26 05 33 13-2058)				
26 05 33 13-2112	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	18.98	
26 05 33 13-2113	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	21.59	
26 05 33 13-2114	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	24.23	
26 05 33 13-2115	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	31.11	
26 05 33 13-2116	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	34.43	
26 05 33 13-2117	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	38.74	
26 05 33 13-2118	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	43.33	
26 05 33 13-2119	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	49.02	
26 05 33 13-2120	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	58.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2121	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	64.02	
26 05 33 13-2122	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	81.20	
26 05 33 13-2123	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial.....	91.35	
26 05 33 13-2124		Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial ^(26 05 33 13-2058)		
26 05 33 13-2125	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	15.99	
26 05 33 13-2126	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	18.56	
26 05 33 13-2127	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	20.96	
26 05 33 13-2128	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial.....	23.54	
26 05 33 13-2129	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	25.93	
26 05 33 13-2130	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	28.87	
26 05 33 13-2131	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	34.22	
26 05 33 13-2132	EA	3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	39.14	
26 05 33 13-2133	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	46.28	
26 05 33 13-2134	EA	4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	52.16	
26 05 33 13-2135	EA	5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	66.03	
26 05 33 13-2136	EA	6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial.....	74.95	
26 05 33 13-2137		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial ^(26 05 33 13-2057)		
Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).				
26 05 33 13-2138		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial ^(26 05 33 13-2137)		
Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2508 for field bending >1".				
26 05 33 13-2139	LF	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	12.47	2.49
		For >250 To 500, Deduct.....	-0.46	
		For >500 To 1,000, Deduct.....	-0.77	
		For >1,000, Deduct.....	-1.08	
26 05 33 13-2140	LF	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	14.01	3.08
		For >250 To 500, Deduct.....	-0.52	
		For >500 To 1,000, Deduct.....	-0.87	
		For >1,000, Deduct.....	-1.22	
26 05 33 13-2141	LF	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	17.22	3.44
		For >250 To 500, Deduct.....	-0.65	
		For >500 To 1,000, Deduct.....	-1.08	
		For >1,000, Deduct.....	-1.51	
26 05 33 13-2142	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	20.79	4.63
		For >250 To 500, Deduct.....	-0.80	
		For >500 To 1,000, Deduct.....	-1.32	
		For >1,000, Deduct.....	-1.84	
26 05 33 13-2143	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	24.43	5.22
		For >250 To 500, Deduct.....	-0.95	
		For >500 To 1,000, Deduct.....	-1.57	
		For >1,000, Deduct.....	-2.18	
26 05 33 13-2144	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	30.97	5.69
		For >250 To 500, Deduct.....	-1.22	
		For >500 To 1,000, Deduct.....	-2.00	
		For >1,000, Deduct.....	-2.77	
26 05 33 13-2145	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	44.97	8.54
		For >250 To 500, Deduct.....	-1.80	
		For >500 To 1,000, Deduct.....	-2.93	
		For >1,000, Deduct.....	-4.05	
26 05 33 13-2146	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	57.99	10.68
		For >250 To 500, Deduct.....	-2.31	
		For >500 To 1,000, Deduct.....	-3.76	
		For >1,000, Deduct.....	-5.21	
26 05 33 13-2147	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	71.57	11.27
		For >250 To 500, Deduct.....	-2.84	
		For >500 To 1,000, Deduct.....	-4.63	
		For >1,000, Deduct.....	-6.42	
26 05 33 13-2148	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	85.00	12.45
		For >250 To 500, Deduct.....	-3.36	
		For >500 To 1,000, Deduct.....	-5.49	
		For >1,000, Deduct.....	-7.61	
26 05 33 13-2149	LF	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	132.65	17.20
		For >250 To 500, Deduct.....	-5.51	
		For >500 To 1,000, Deduct.....	-8.82	
		For >1,000, Deduct.....	-12.14	
26 05 33 13-2150	LF	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial.....	176.94	22.53
		For >250 To 500, Deduct.....	-7.42	
		For >500 To 1,000, Deduct.....	-11.85	
		For >1,000, Deduct.....	-16.27	
26 05 33 13-2151		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial ^(26 05 33 13-2137)		
26 05 33 13-2152	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	13.40	3.56
26 05 33 13-2153	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	16.06	4.75



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2154	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	20.40	5.93
26 05 33 13-2155	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	23.02	6.52
26 05 33 13-2156	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	27.26	7.71
26 05 33 13-2157	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	35.13	8.89
26 05 33 13-2158	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	64.26	10.68
26 05 33 13-2159	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	81.77	14.82
26 05 33 13-2160	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial	101.25	17.20
26 05 33 13-2161	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	125.62	23.72
26 05 33 13-2162	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	319.95	32.62
26 05 33 13-2163	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	321.31	18.39
26 05 33 13-2164		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-2137) Note: 90, 45, or 30-degree.		
26 05 33 13-2165	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	51.66	14.82
26 05 33 13-2166	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	59.62	18.39
26 05 33 13-2167	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	71.28	22.53
26 05 33 13-2168	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	84.40	26.09
26 05 33 13-2169	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	98.88	29.65
26 05 33 13-2170	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	120.47	32.62
26 05 33 13-2171	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	185.90	40.92
26 05 33 13-2172	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	277.80	55.74
26 05 33 13-2173	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	343.94	62.86
26 05 33 13-2174	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	394.34	81.83
26 05 33 13-2175	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	822.74	133.42
26 05 33 13-2176	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial	1,294.41	200.43
26 05 33 13-2177		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2178	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	123.16	22.53
26 05 33 13-2179	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	138.57	26.09
26 05 33 13-2180	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	158.19	29.65
26 05 33 13-2181	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	188.90	32.62
26 05 33 13-2182	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial	263.36	40.92
26 05 33 13-2183		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2184	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	137.20	22.53
26 05 33 13-2185	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	161.76	26.09
26 05 33 13-2186	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	174.81	29.65
26 05 33 13-2187	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	225.16	32.62
26 05 33 13-2188	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	298.32	40.92
26 05 33 13-2189	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial	381.46	55.74
26 05 33 13-2190		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2191	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	153.97	22.53
26 05 33 13-2192	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	173.83	26.09
26 05 33 13-2193	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	196.14	29.65
26 05 33 13-2194	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial	237.18	32.62

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2195 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	338.48	40.92
26 05 33 13-2196 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	428.62	55.74
26 05 33 13-2197 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	541.43	62.86
26 05 33 13-2198 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	609.51	81.83
26 05 33 13-2199 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2200 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	182.95	22.53
26 05 33 13-2201 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	202.18	26.09
26 05 33 13-2202 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	228.33	29.65
26 05 33 13-2203 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	283.52	32.62
26 05 33 13-2204 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	410.37	40.92
26 05 33 13-2205 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	508.52	55.74
26 05 33 13-2206 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	590.22	62.86
26 05 33 13-2207 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	699.07	81.83
26 05 33 13-2208 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2209 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	205.50	22.53
26 05 33 13-2210 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	228.56	26.09
26 05 33 13-2211 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	260.00	29.65
26 05 33 13-2212 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	323.87	32.62
26 05 33 13-2213 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	449.60	40.92
26 05 33 13-2214 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	572.43	55.74
26 05 33 13-2215 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	708.83	62.86
26 05 33 13-2216 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	781.28	81.83
26 05 33 13-2217 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,302.69	133.42
26 05 33 13-2218 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2219 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	234.99	22.53
26 05 33 13-2220 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	260.44	26.09
26 05 33 13-2221 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	294.73	29.65
26 05 33 13-2222 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	368.61	32.62
26 05 33 13-2223 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	514.96	40.92
26 05 33 13-2224 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	653.85	55.74
26 05 33 13-2225 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	768.27	62.86
26 05 33 13-2226 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	887.41	81.83
26 05 33 13-2227 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,377.07	133.42
26 05 33 13-2228 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,882.15	200.43
26 05 33 13-2229 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2230 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	276.05	22.53
26 05 33 13-2231 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	288.86	26.09



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2232	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	341.20	29.65
26 05 33 13-2233	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	430.89	32.62
26 05 33 13-2234	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	603.10	40.92
26 05 33 13-2235	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	763.62	55.74
26 05 33 13-2236	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	933.51	62.86
26 05 33 13-2237	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,093.88	81.83
26 05 33 13-2238	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,619.69	133.42
26 05 33 13-2239	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,993.52	200.43
26 05 33 13-2240 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2241	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	285.94	22.53
26 05 33 13-2242	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	336.93	26.09
26 05 33 13-2243	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	381.39	29.65
26 05 33 13-2244	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	449.62	32.62
26 05 33 13-2245	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	625.12	40.92
26 05 33 13-2246	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	797.38	55.74
26 05 33 13-2247	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,023.50	62.86
26 05 33 13-2248	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,140.71	81.83
26 05 33 13-2249	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,684.87	133.42
26 05 33 13-2250	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	2,050.11	200.43
26 05 33 13-2251 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2252	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	95.26	14.82
26 05 33 13-2253	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	103.58	18.39
26 05 33 13-2254	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	134.63	22.53
26 05 33 13-2255	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	196.33	26.09
26 05 33 13-2256	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	233.16	29.65
26 05 33 13-2257	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	296.92	32.62
26 05 33 13-2258	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	395.50	40.92
26 05 33 13-2259	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	514.27	40.92
26 05 33 13-2260	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	662.13	62.86
26 05 33 13-2261	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	852.43	81.83
26 05 33 13-2262	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,554.23	133.42
26 05 33 13-2263	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,934.14	200.43
26 05 33 13-2264 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial (26 05 33 13-2137)				
26 05 33 13-2265	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	97.47	14.82
26 05 33 13-2266	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	112.02	18.39
26 05 33 13-2267	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	139.13	22.53
26 05 33 13-2268	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	204.59	26.09
26 05 33 13-2269	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	244.62	29.65

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2270 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	321.68	32.62
26 05 33 13-2271 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	448.48	40.92
26 05 33 13-2272 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	568.14	40.92
26 05 33 13-2273 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	759.52	62.86
26 05 33 13-2274 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	949.47	81.83
26 05 33 13-2275 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	1,732.11	133.42
26 05 33 13-2276 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial	2,221.35	200.43
26 05 33 13-2277 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial (26 05 33 13-2137)		
26 05 33 13-2278 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	32.84	7.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.27	
26 05 33 13-2279 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.75	8.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2280 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.54	11.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-2281 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.70	13.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-2282 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.07	14.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-2283 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.41	7.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-2284 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.30	8.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2285 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.10	11.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-2286 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.42	13.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-2287 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.99	14.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-2288 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.83	16.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-2289 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	36.59	7.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-2290 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.47	8.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2291 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.43	11.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-2292 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	53.77	13.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-2293 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.35	14.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-2294 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.74	16.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-2295 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.00	7.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-2296 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.89	8.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2297 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.03	11.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-2298 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	55.25	13.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-2299 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.98	14.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	



Electrical		26
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MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
26 05 33 13-2300	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.59		16.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96		
26 05 33 13-2301	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	93.30		20.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10		
26 05 33 13-2302	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	120.56		27.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72		
26 05 33 13-2303	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.18		7.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62		
26 05 33 13-2304	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.22		8.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34		
26 05 33 13-2305	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.38		11.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76		
26 05 33 13-2306	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.72		13.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83		
26 05 33 13-2307	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.60		14.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90		
26 05 33 13-2308	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	69.44		16.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96		
26 05 33 13-2309	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	95.81		20.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10		
26 05 33 13-2310	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	125.98		27.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72		
26 05 33 13-2311	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	150.45		31.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86		
26 05 33 13-2312	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	175.56		40.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55		
26 05 33 13-2313	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	39.51		7.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62		
26 05 33 13-2314	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.58		8.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34		
26 05 33 13-2315	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	48.76		11.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76		
26 05 33 13-2316	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.41		13.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83		
26 05 33 13-2317	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	62.32		14.82
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90		
26 05 33 13-2318	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	70.99		16.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96		
26 05 33 13-2319	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	105.83		20.16
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10		
26 05 33 13-2320	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	134.09		27.87
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72		
26 05 33 13-2321	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	152.18		31.43
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86		
26 05 33 13-2322	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	180.18		40.92
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55		
26 05 33 13-2323	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	265.65		56.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80		
26 05 33 13-2324	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.14		7.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62		
26 05 33 13-2325	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.21		8.89
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34		
26 05 33 13-2326	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	49.45		11.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76		
26 05 33 13-2327	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.68		13.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
26 05 33 13-2328	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.84		14.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.90		
26 05 33 13-2329	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.54		16.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.96		
26 05 33 13-2330	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	116.00		20.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.10		
26 05 33 13-2331	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	144.87		27.87
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.72		
26 05 33 13-2332	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	161.89		31.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.86		
26 05 33 13-2333	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	196.56		40.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.55		
26 05 33 13-2334	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	290.13		56.34
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.80		
26 05 33 13-2335	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.14		7.71
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62		
26 05 33 13-2336	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.18		8.89
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.34		
26 05 33 13-2337	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.98		11.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.76		
26 05 33 13-2338	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.01		13.05
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.83		
26 05 33 13-2339	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.94		14.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.90		
26 05 33 13-2340	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	80.11		16.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.96		
26 05 33 13-2341	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	128.51		20.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.10		
26 05 33 13-2342	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	159.61		27.87
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.72		
26 05 33 13-2343	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	186.19		31.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.86		
26 05 33 13-2344	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	221.14		40.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.55		
26 05 33 13-2345	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	306.90		56.34
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.80		
26 05 33 13-2346	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.18		7.71
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62		
26 05 33 13-2347	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.19		8.89
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.34		
26 05 33 13-2348	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.48		11.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.76		
26 05 33 13-2349	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	63.59		13.05
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.83		
26 05 33 13-2350	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	74.32		14.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.90		
26 05 33 13-2351	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	91.25		16.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.96		
26 05 33 13-2352	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	141.73		20.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.10		
26 05 33 13-2353	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	178.50		27.87
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.72		
26 05 33 13-2354	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	211.72		31.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.86		
26 05 33 13-2355	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	264.15		40.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.55		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2356	EA		5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	340.38	56.34
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	
26 05 33 13-2357	EA		1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.25	7.71
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-2358	EA		3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.39	8.89
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2359	EA		1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	56.29	11.27
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-2360	EA		1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	71.11	13.05
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.83	
26 05 33 13-2361	EA		1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	83.24	14.82
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-2362	EA		2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	100.19	16.61
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.96	
26 05 33 13-2363	EA		2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	159.37	20.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.10	
26 05 33 13-2364	EA		3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	206.82	27.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.72	
26 05 33 13-2365	EA		3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	227.38	31.43
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.86	
26 05 33 13-2366	EA		4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	277.35	40.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.55	
26 05 33 13-2367	EA		5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	345.16	56.34
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.80	
26 05 33 13-2368			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2057) Note: Direct burial or encased application.		
26 05 33 13-2369			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2368) Note: Includes field bending for conduit up to and including 1". See CSI section 26 05 33 13-2518 for field bending >1".		
26 05 33 13-2370	LF		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	7.58	1.43
			For Work In Restricted Working Space, Add	1.07	
26 05 33 13-2371	LF		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.35	1.54
			For Work In Restricted Working Space, Add	1.16	
26 05 33 13-2372	LF		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	8.89	1.65
			For Work In Restricted Working Space, Add	1.24	
26 05 33 13-2373	LF		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.43	1.76
			For Work In Restricted Working Space, Add	1.32	
26 05 33 13-2374	LF		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.10	1.87
			For Work In Restricted Working Space, Add	1.40	
26 05 33 13-2375	LF		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.53	1.98
			For Work In Restricted Working Space, Add	1.49	
26 05 33 13-2376	LF		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	11.90	2.09
			For Work In Restricted Working Space, Add	1.67	
26 05 33 13-2377	LF		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	13.52	2.20
			For Work In Restricted Working Space, Add	1.65	
26 05 33 13-2378	LF		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	14.79	2.31
			For Work In Restricted Working Space, Add	1.73	
26 05 33 13-2379	LF		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	16.08	2.42
			For Work In Restricted Working Space, Add	1.82	
26 05 33 13-2380	LF		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	18.85	2.53
			For Work In Restricted Working Space, Add	1.90	
26 05 33 13-2381	LF		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	22.26	2.64
			For Work In Restricted Working Space, Add	1.98	
26 05 33 13-2382			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-2368)		
26 05 33 13-2383	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	101.50	11.00
			For Work In Restricted Working Space, Add	8.25	
			For 24" Radius, Add	6.93	
			For 36" Radius, Add	10.15	
			For 48" Radius, Add	13.38	
26 05 33 13-2384	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	115.85	13.20
			For Work In Restricted Working Space, Add	9.90	
			For 24" Radius, Add	7.86	
			For 36" Radius, Add	11.59	
			For 48" Radius, Add	15.31	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
26 05 33 13-2385	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	122.18		15.40	
		For Work In Restricted Working Space, Add	11.55			
		For 24" Radius, Add	8.20			
		For 36" Radius, Add	12.22			
		For 48" Radius, Add	16.23			
26 05 33 13-2386	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	128.50		17.60	
		For Work In Restricted Working Space, Add	13.20			
		For 24" Radius, Add	8.54			
		For 36" Radius, Add	12.85			
		For 48" Radius, Add	17.16			
26 05 33 13-2387	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	134.84		19.80	
		For Work In Restricted Working Space, Add	14.85			
		For 24" Radius, Add	8.88			
		For 36" Radius, Add	13.48			
		For 48" Radius, Add	18.09			
26 05 33 13-2388	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	152.10		22.00	
		For Work In Restricted Working Space, Add	16.50			
		For 24" Radius, Add	10.03			
		For 36" Radius, Add	15.21			
		For 48" Radius, Add	20.39			
26 05 33 13-2389	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	176.73		24.20	
		For Work In Restricted Working Space, Add	18.15			
		For 24" Radius, Add	11.74			
		For 36" Radius, Add	17.67			
		For 48" Radius, Add	23.60			
26 05 33 13-2390	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	205.48		26.39	
		For Work In Restricted Working Space, Add	19.80			
		For 24" Radius, Add	13.76			
		For 36" Radius, Add	20.55			
		For 48" Radius, Add	27.34			
26 05 33 13-2391	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	233.92		30.80	
		For Work In Restricted Working Space, Add	23.10			
		For 24" Radius, Add	15.62			
		For 36" Radius, Add	23.39			
		For 48" Radius, Add	31.17			
26 05 33 13-2392	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	262.35		39.60	
		For Work In Restricted Working Space, Add	26.40			
		For 24" Radius, Add	17.48			
		For 36" Radius, Add	26.24			
		For 48" Radius, Add	34.99			
26 05 33 13-2393	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	316.94		39.60	
		For Work In Restricted Working Space, Add	29.70			
		For 24" Radius, Add	21.30			
		For 36" Radius, Add	31.69			
		For 48" Radius, Add	42.09			
26 05 33 13-2394	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	382.42		44.00	
		For Work In Restricted Working Space, Add	33.00			
		For 24" Radius, Add	25.93			
		For 36" Radius, Add	38.24			
		For 48" Radius, Add	50.55			

**26 05 33 13-2395 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double
Bell Couplings** (26 05 33 13-2388)

26 05 33 13-2396	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	46.04		6.16	
		For Work In Restricted Working Space, Add	4.62			
26 05 33 13-2397	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	51.74		7.04	
		For Work In Restricted Working Space, Add	5.28			
26 05 33 13-2398	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	54.29		7.92	
		For Work In Restricted Working Space, Add	5.94			
26 05 33 13-2399	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	56.78		8.80	
		For Work In Restricted Working Space, Add	6.60			
26 05 33 13-2400	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	59.68		9.68	
		For Work In Restricted Working Space, Add	7.26			
26 05 33 13-2401	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	68.64		10.56	
		For Work In Restricted Working Space, Add	7.92			
26 05 33 13-2402	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	80.55		11.88	
		For Work In Restricted Working Space, Add	8.91			
26 05 33 13-2403	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	94.02		13.20	
		For Work In Restricted Working Space, Add	9.90			
26 05 33 13-2404	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	107.14		15.40	
		For Work In Restricted Working Space, Add	11.55			
26 05 33 13-2405	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	120.28		17.60	
		For Work In Restricted Working Space, Add	13.20			



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-2406	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	144.84	19.80
		For Work In Restricted Working Space, Add	14.85	
26 05 33 13-2407	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	174.13	22.00
		For Work In Restricted Working Space, Add	16.50	
26 05 33 13-2408 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2368)				
26 05 33 13-2409	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	32.69	6.16
		For Work In Restricted Working Space, Add	4.62	
26 05 33 13-2410	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	36.81	7.04
		For Work In Restricted Working Space, Add	5.28	
26 05 33 13-2411	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	39.21	7.92
		For Work In Restricted Working Space, Add	5.94	
26 05 33 13-2412	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	41.62	8.80
		For Work In Restricted Working Space, Add	6.60	
26 05 33 13-2413	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	44.02	9.68
		For Work In Restricted Working Space, Add	7.26	
26 05 33 13-2414	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	46.33	10.56
		For Work In Restricted Working Space, Add	7.92	
26 05 33 13-2415	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	53.62	11.88
		For Work In Restricted Working Space, Add	8.91	
26 05 33 13-2416	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	61.71	13.20
		For Work In Restricted Working Space, Add	9.90	
26 05 33 13-2417	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	70.79	15.40
		For Work In Restricted Working Space, Add	11.55	
26 05 33 13-2418	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	79.89	17.60
		For Work In Restricted Working Space, Add	13.20	
26 05 33 13-2419	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	94.40	19.80
		For Work In Restricted Working Space, Add	14.85	
26 05 33 13-2420	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	111.07	22.00
		For Work In Restricted Working Space, Add	16.50	
26 05 33 13-2421 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-2368)				
26 05 33 13-2422	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	30.29	3.52
		For Work In Restricted Working Space, Add	2.64	
26 05 33 13-2423	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	33.79	3.96
		For Work In Restricted Working Space, Add	2.97	
26 05 33 13-2424	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	35.15	4.40
		For Work In Restricted Working Space, Add	3.30	
26 05 33 13-2425	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	36.39	4.84
		For Work In Restricted Working Space, Add	3.63	
26 05 33 13-2426	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	38.05	5.28
		For Work In Restricted Working Space, Add	3.96	
26 05 33 13-2427	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	44.98	6.16
		For Work In Restricted Working Space, Add	4.62	
26 05 33 13-2428	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	54.18	7.48
		For Work In Restricted Working Space, Add	5.61	
26 05 33 13-2429	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	64.57	8.80
		For Work In Restricted Working Space, Add	6.60	
26 05 33 13-2430	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	75.39	11.00
		For Work In Restricted Working Space, Add	8.25	
26 05 33 13-2431	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	86.20	13.20
		For Work In Restricted Working Space, Add	9.90	
26 05 33 13-2432	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	104.98	15.40
		For Work In Restricted Working Space, Add	11.55	
26 05 33 13-2433	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	127.14	17.60
		For Work In Restricted Working Space, Add	13.20	
26 05 33 13-2434 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-2368)				
26 05 33 13-2435	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	78.67	22.00
		For Work In Restricted Working Space, Add	16.50	
26 05 33 13-2436	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	92.27	26.39
		For Work In Restricted Working Space, Add	19.80	
26 05 33 13-2437	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	103.56	30.80
		For Work In Restricted Working Space, Add	23.10	
26 05 33 13-2438	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	114.73	35.20
		For Work In Restricted Working Space, Add	26.40	
26 05 33 13-2439	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	120.84	37.40
		For Work In Restricted Working Space, Add	28.05	
26 05 33 13-2440	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	131.54	39.60
		For Work In Restricted Working Space, Add	29.70	
26 05 33 13-2441	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	143.56	41.80
		For Work In Restricted Working Space, Add	31.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-2442	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	156.87		44.00
		<i>For Work In Restricted Working Space, Add</i>	33.00		
26 05 33 13-2443	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	168.22		46.20
		<i>For Work In Restricted Working Space, Add</i>	34.65		
26 05 33 13-2444	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	179.58		48.40
		<i>For Work In Restricted Working Space, Add</i>	36.30		
26 05 33 13-2445	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	199.73		50.60
		<i>For Work In Restricted Working Space, Add</i>	37.95		
26 05 33 13-2446	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	223.53		52.80
		<i>For Work In Restricted Working Space, Add</i>	39.60		
26 05 33 13-2447 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints					
		(26 05 33 13-2368)			
26 05 33 13-2448	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	88.29		22.00
		<i>For Work In Restricted Working Space, Add</i>	16.50		
26 05 33 13-2449	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	103.05		26.39
		<i>For Work In Restricted Working Space, Add</i>	19.80		
26 05 33 13-2450	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	114.40		30.80
		<i>For Work In Restricted Working Space, Add</i>	23.10		
26 05 33 13-2451	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	125.69		35.20
		<i>For Work In Restricted Working Space, Add</i>	26.40		
26 05 33 13-2452	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	131.89		37.40
		<i>For Work In Restricted Working Space, Add</i>	28.05		
26 05 33 13-2453	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	144.16		39.60
		<i>For Work In Restricted Working Space, Add</i>	29.70		
26 05 33 13-2454	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	158.69		41.80
		<i>For Work In Restricted Working Space, Add</i>	31.35		
26 05 33 13-2455	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	175.03		44.00
		<i>For Work In Restricted Working Space, Add</i>	33.00		
26 05 33 13-2456	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	188.66		46.20
		<i>For Work In Restricted Working Space, Add</i>	34.65		
26 05 33 13-2457	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	202.31		48.40
		<i>For Work In Restricted Working Space, Add</i>	36.30		
26 05 33 13-2458	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	228.21		50.60
		<i>For Work In Restricted Working Space, Add</i>	37.95		
26 05 33 13-2459	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	259.12		52.80
		<i>For Work In Restricted Working Space, Add</i>	39.60		
26 05 33 13-2460 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters					
		(26 05 33 13-2368)			
26 05 33 13-2461	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	94.58		6.16
		<i>For Work In Restricted Working Space, Add</i>	4.62		
26 05 33 13-2462	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	105.56		7.04
		<i>For Work In Restricted Working Space, Add</i>	5.28		
26 05 33 13-2463	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	110.46		7.92
		<i>For Work In Restricted Working Space, Add</i>	5.94		
26 05 33 13-2464	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	115.48		8.80
		<i>For Work In Restricted Working Space, Add</i>	6.60		
26 05 33 13-2465	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	119.13		9.68
		<i>For Work In Restricted Working Space, Add</i>	7.26		
26 05 33 13-2466	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	130.36		10.56
		<i>For Work In Restricted Working Space, Add</i>	7.92		
26 05 33 13-2467	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	154.48		11.88
		<i>For Work In Restricted Working Space, Add</i>	8.91		
26 05 33 13-2468	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	182.65		13.20
		<i>For Work In Restricted Working Space, Add</i>	9.90		
26 05 33 13-2469	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	206.85		15.40
		<i>For Work In Restricted Working Space, Add</i>	11.55		
26 05 33 13-2470	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	231.08		17.60
		<i>For Work In Restricted Working Space, Add</i>	13.20		
26 05 33 13-2471	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	283.42		19.80
		<i>For Work In Restricted Working Space, Add</i>	14.85		
26 05 33 13-2472	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial.....	345.57		22.00
		<i>For Work In Restricted Working Space, Add</i>	16.50		
26 05 33 13-2473 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints					
		(26 05 33 13-2368)			
26 05 33 13-2474	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	105.01		22.00
		<i>For Work In Restricted Working Space, Add</i>	16.50		
26 05 33 13-2475	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	121.59		26.39
		<i>For Work In Restricted Working Space, Add</i>	19.80		
26 05 33 13-2476	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	145.67		30.80
		<i>For Work In Restricted Working Space, Add</i>	23.10		
26 05 33 13-2477	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	180.59		35.20
		<i>For Work In Restricted Working Space, Add</i>	26.40		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2478	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	220.42	37.40
			<i>For Work In Restricted Working Space, Add</i>	28.05	
26 05 33 13-2479	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	287.10	39.60
			<i>For Work In Restricted Working Space, Add</i>	29.70	
26 05 33 13-2480	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	400.49	41.80
			<i>For Work In Restricted Working Space, Add</i>	31.35	
26 05 33 13-2481	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	477.03	44.00
			<i>For Work In Restricted Working Space, Add</i>	33.00	
26 05 33 13-2482	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	566.88	46.20
			<i>For Work In Restricted Working Space, Add</i>	34.65	
26 05 33 13-2483	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	656.75	48.40
			<i>For Work In Restricted Working Space, Add</i>	36.30	
26 05 33 13-2484	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	762.88	50.60
			<i>For Work In Restricted Working Space, Add</i>	37.95	
26 05 33 13-2485	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial.....	1,212.36	52.80
			<i>For Work In Restricted Working Space, Add</i>	39.60	
26 05 33 13-2486			Spacers (26 05 33 13-2057) Note: For concrete encasement applications. See CSI section 03 30 53 00-0001 for concrete., 26 05 33 13-2057 for conduit.		
26 05 33 13-2487	EA		1" Base Spacers, Average 4" Wide, Direct Burial.....	11.88	
26 05 33 13-2488	EA		1" Intermediate Spacers, Average 4" Wide, Direct Burial.....	12.74	
26 05 33 13-2489	EA		1-1/4" Base Spacer, Average 4" Wide, Direct Burial.....	14.11	
26 05 33 13-2490	EA		1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	15.15	
26 05 33 13-2491	EA		1-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	14.25	
26 05 33 13-2492	EA		1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	15.25	
26 05 33 13-2493	EA		2" Base Spacer, Average 4" Wide, Direct Burial.....	17.62	
26 05 33 13-2494	EA		2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	16.37	
26 05 33 13-2495	EA		2-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	19.46	
26 05 33 13-2496	EA		2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	18.83	
26 05 33 13-2497	EA		3" Base Spacer, Average 4" Wide, Direct Burial.....	22.23	
26 05 33 13-2498	EA		3" Intermediate Spacers, Average 4" Wide, Direct Burial.....	21.27	
26 05 33 13-2499	EA		3-1/2" Base Spacer, Average 4" Wide, Direct Burial.....	24.08	
26 05 33 13-2500	EA		3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial.....	23.06	
26 05 33 13-2501	EA		4" Base Spacer, Average 4" Wide, Direct Burial.....	24.84	
26 05 33 13-2502	EA		4" Intermediate Spacers, Average 4" Wide, Direct Burial.....	23.70	
26 05 33 13-2503	EA		5" Base Spacer, Average 4" Wide, Direct Burial.....	27.48	
26 05 33 13-2504	EA		5" Intermediate Spacers, Average 4" Wide, Direct Burial.....	26.13	
26 05 33 13-2505	EA		6" Base Spacer, Average 4" Wide, Direct Burial.....	31.21	
26 05 33 13-2506	EA		6" Intermediate Spacers, Average 4" Wide, Direct Burial.....	30.06	
26 05 33 13-2507			Conduit Field Bending (26 05 33 13-0058) Note: Conduit tasks by LF include field bending up to and include 1" conduit.		
26 05 33 13-2508			Metallic Conduit Field Bending (26 05 33 13-2507) Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), and Intermediate Metal Conduit (IMC).		
26 05 33 13-2509	EA		1-1/4" Metallic Conduit Field Bending.....	21.29	
			<i>For Aluminum Conduit Bending, Add</i>	14.05	
26 05 33 13-2510	EA		1-1/2" Metallic Conduit Field Bending.....	26.62	
			<i>For Aluminum Conduit Bending, Add</i>	17.57	
26 05 33 13-2511	EA		2" Metallic Conduit Field Bending.....	33.27	
			<i>For Aluminum Conduit Bending, Add</i>	21.96	
26 05 33 13-2512	EA		2-1/2" Metallic Conduit Field Bending.....	46.57	
			<i>For Aluminum Conduit Bending, Add</i>	30.74	
26 05 33 13-2513	EA		3" Metallic Conduit Field Bending.....	59.88	
			<i>For Aluminum Conduit Bending, Add</i>	39.52	
26 05 33 13-2514	EA		3-1/2" Metallic Conduit Field Bending.....	79.84	
			<i>For Aluminum Conduit Bending, Add</i>	52.69	
26 05 33 13-2515	EA		4" Metallic Conduit Field Bending.....	93.15	
			<i>For Aluminum Conduit Bending, Add</i>	61.48	
26 05 33 13-2516	EA		5" Metallic Conduit Field Bending.....	106.45	
			<i>For Aluminum Conduit Bending, Add</i>	70.26	
26 05 33 13-2517	EA		6" Metallic Conduit Field Bending.....	126.41	
			<i>For Aluminum Conduit Bending, Add</i>	83.43	
26 05 33 13-2518			Plastic Conduit Field Bending (26 05 33 13-2507) Note: For PVC conduits.		
26 05 33 13-2519	EA		1" Plastic Conduit Field Bending.....	30.61	
26 05 33 13-2520	EA		1-1/4" Plastic Conduit Field Bending.....	33.27	
26 05 33 13-2521	EA		1-1/2" Plastic Conduit Field Bending.....	39.91	
26 05 33 13-2522	EA		2" Plastic Conduit Field Bending.....	53.22	
26 05 33 13-2523	EA		2-1/2" Plastic Conduit Field Bending.....	66.53	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2524	EA	3" Plastic Conduit Field Bending.....	79.84		
26 05 33 13-2525	EA	3-1/2" Plastic Conduit Field Bending.....	93.15		
26 05 33 13-2526	EA	4" Plastic Conduit Field Bending.....	106.45		
26 05 33 13-2527	EA	5" Plastic Conduit Field Bending.....	119.75		
26 05 33 13-2528	EA	6" Plastic Conduit Field Bending.....	133.06		
26 05 33 13-2529 Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0058)					
Note: For use when connecting conduit to an existing in-place system.					
26 05 33 13-2530	EA	1/2", Cut And Thread Existing In-Place Threaded Conduit.....	39.03		
		For Work In Restricted Working Space, Add	11.71		
26 05 33 13-2531	EA	3/4", Cut And Thread Existing In-Place Threaded Conduit.....	42.93		
		For Work In Restricted Working Space, Add	12.88		
26 05 33 13-2532	EA	1", Cut And Thread Existing In-Place Threaded Conduit.....	46.83		
		For Work In Restricted Working Space, Add	14.05		
26 05 33 13-2533	EA	1-1/4", Cut And Thread Existing In-Place Threaded Conduit.....	50.73		
		For Work In Restricted Working Space, Add	15.22		
26 05 33 13-2534	EA	1-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	53.34		
		For Work In Restricted Working Space, Add	16.00		
26 05 33 13-2535	EA	2", Cut And Thread Existing In-Place Threaded Conduit.....	55.94		
		For Work In Restricted Working Space, Add	16.78		
26 05 33 13-2536	EA	2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	58.53		
		For Work In Restricted Working Space, Add	17.56		
26 05 33 13-2537	EA	3", Cut And Thread Existing In-Place Threaded Conduit.....	61.14		
		For Work In Restricted Working Space, Add	18.34		
26 05 33 13-2538	EA	3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	62.45		
		For Work In Restricted Working Space, Add	18.74		
26 05 33 13-2539	EA	4", Cut And Thread Existing In-Place Threaded Conduit.....	63.74		
		For Work In Restricted Working Space, Add	19.12		
26 05 33 13-2540	EA	5", Cut And Thread Existing In-Place Threaded Conduit.....	66.35		
		For Work In Restricted Working Space, Add	19.91		
26 05 33 13-2541	EA	6", Cut And Thread Existing In-Place Threaded Conduit.....	68.95		
		For Work In Restricted Working Space, Add	20.69		
26 05 33 13-2542 Metallic Conduit Bodies (26 05 33 13-0058)					
26 05 33 13-2543 Threaded, Cast Aluminum Conduit Body (26 05 33 13-2542)					
Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC)					
26 05 33 13-2544 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2543)					
26 05 33 13-2545	EA	1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	65.80	22.77	
		For Mogul LB, Add	3.81		
		For Work In Restricted Working Space, Add	17.08		
		For Elevated Installation >10' To 15', Add	5.69		
		For Elevated Installation >15' To 20', Add	11.39		
		For Elevated Installation >20' To 25', Add	14.23		
		For Elevated Installation >25' To 30', Add	19.93		
		For Elevated Installation >30' To 35', Add	22.77		
		For Elevated Installation >35' To 40', Add	28.47		
		For Elevated Installation >40', Add	31.31		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08		
26 05 33 13-2546	EA	3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	77.28	26.09	
		For Mogul LB, Add	5.78		
		For Work In Restricted Working Space, Add	19.57		
		For Elevated Installation >10' To 15', Add	6.52		
		For Elevated Installation >15' To 20', Add	13.05		
		For Elevated Installation >20' To 25', Add	16.31		
		For Elevated Installation >25' To 30', Add	22.83		
		For Elevated Installation >30' To 35', Add	26.09		
		For Elevated Installation >35' To 40', Add	32.62		
		For Elevated Installation >40', Add	35.88		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57		
26 05 33 13-2547	EA	1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover.....	93.05	30.36	
		For Mogul LB, Add	9.07		
		For Work In Restricted Working Space, Add	22.77		
		For Elevated Installation >10' To 15', Add	7.59		
		For Elevated Installation >15' To 20', Add	15.18		
		For Elevated Installation >20' To 25', Add	18.98		
		For Elevated Installation >25' To 30', Add	26.57		
		For Elevated Installation >30' To 35', Add	30.36		
		For Elevated Installation >35' To 40', Add	37.95		
		For Elevated Installation >40', Add	41.75		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77		



Electrical		26
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-2548	EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	112.19		34.63
	For Mogul LB, Add	14.88		
	For Work In Restricted Working Space, Add	25.97		
	For Elevated Installation >10' To 15', Add	8.66		
	For Elevated Installation >15' To 20', Add	17.32		
	For Elevated Installation >20' To 25', Add	21.65		
	For Elevated Installation >25' To 30', Add	30.30		
	For Elevated Installation >30' To 35', Add	34.63		
	For Elevated Installation >35' To 40', Add	43.29		
	For Elevated Installation >40', Add	47.62		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97		
26 05 33 13-2549	EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	127.92		37.96
	For Mogul LB, Add	20.04		
	For Work In Restricted Working Space, Add	28.46		
	For Elevated Installation >10' To 15', Add	9.49		
	For Elevated Installation >15' To 20', Add	18.98		
	For Elevated Installation >20' To 25', Add	23.72		
	For Elevated Installation >25' To 30', Add	33.21		
	For Elevated Installation >30' To 35', Add	37.95		
	For Elevated Installation >35' To 40', Add	47.44		
	For Elevated Installation >40', Add	52.18		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46		
26 05 33 13-2550	EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	167.21		45.54
	For Mogul LB, Add	34.33		
	For Work In Restricted Working Space, Add	34.16		
	For Elevated Installation >10' To 15', Add	11.39		
	For Elevated Installation >15' To 20', Add	22.77		
	For Elevated Installation >20' To 25', Add	28.46		
	For Elevated Installation >25' To 30', Add	39.85		
	For Elevated Installation >30' To 35', Add	45.54		
	For Elevated Installation >35' To 40', Add	56.93		
	For Elevated Installation >40', Add	62.62		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.16		
26 05 33 13-2551	EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	278.21		64.05
	For Mogul LB, Add	80.57		
	For Work In Restricted Working Space, Add	48.03		
	For Elevated Installation >10' To 15', Add	16.01		
	For Elevated Installation >15' To 20', Add	32.02		
	For Elevated Installation >20' To 25', Add	40.03		
	For Elevated Installation >25' To 30', Add	56.04		
	For Elevated Installation >30' To 35', Add	64.04		
	For Elevated Installation >35' To 40', Add	80.06		
	For Elevated Installation >40', Add	88.06		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.03		
26 05 33 13-2552	EA 3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	365.97		85.39
	For Mogul LB, Add	103.69		
	For Work In Restricted Working Space, Add	64.04		
	For Elevated Installation >10' To 15', Add	21.35		
	For Elevated Installation >15' To 20', Add	42.70		
	For Elevated Installation >20' To 25', Add	53.37		
	For Elevated Installation >25' To 30', Add	74.72		
	For Elevated Installation >30' To 35', Add	85.39		
	For Elevated Installation >35' To 40', Add	106.74		
	For Elevated Installation >40', Add	117.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.04		
26 05 33 13-2553	EA 3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	484.94		106.74
	For Mogul LB, Add	150.23		
	For Work In Restricted Working Space, Add	80.06		
	For Elevated Installation >10' To 15', Add	26.69		
	For Elevated Installation >15' To 20', Add	53.37		
	For Elevated Installation >20' To 25', Add	66.71		
	For Elevated Installation >25' To 30', Add	93.40		
	For Elevated Installation >30' To 35', Add	106.74		
	For Elevated Installation >35' To 40', Add	133.43		
	For Elevated Installation >40', Add	146.77		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.06		
26 05 33 13-2554	EA 4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	628.01		129.98
	For Mogul LB, Add	211.03		
	For Work In Restricted Working Space, Add	97.49		
	For Elevated Installation >10' To 15', Add	32.50		
	For Elevated Installation >15' To 20', Add	64.99		
	For Elevated Installation >20' To 25', Add	81.24		
	For Elevated Installation >25' To 30', Add	113.74		
	For Elevated Installation >30' To 35', Add	129.99		
	For Elevated Installation >35' To 40', Add	162.49		
	For Elevated Installation >40', Add	178.73		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.49		

26 05 33 13-2555 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With
Cover (26 05 33 13-2543)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-2556	EA	1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	66.88	22.77
		For Mogul LB, Add	4.62	
		For Work In Restricted Working Space, Add	17.08	
		For Elevated Installation >10' To 15', Add	5.69	
		For Elevated Installation >15' To 20', Add	11.39	
		For Elevated Installation >20' To 25', Add	14.23	
		For Elevated Installation >25' To 30', Add	19.93	
		For Elevated Installation >30' To 35', Add	22.77	
		For Elevated Installation >35' To 40', Add	28.47	
		For Elevated Installation >40', Add	31.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-2557	EA	3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	78.33	26.09
		For Mogul LB, Add	6.56	
		For Work In Restricted Working Space, Add	19.57	
		For Elevated Installation >10' To 15', Add	6.52	
		For Elevated Installation >15' To 20', Add	13.05	
		For Elevated Installation >20' To 25', Add	16.31	
		For Elevated Installation >25' To 30', Add	22.83	
		For Elevated Installation >30' To 35', Add	26.09	
		For Elevated Installation >35' To 40', Add	32.62	
		For Elevated Installation >40', Add	35.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57	
26 05 33 13-2558	EA	1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	95.17	30.36
		For Mogul LB, Add	10.66	
		For Work In Restricted Working Space, Add	22.77	
		For Elevated Installation >10' To 15', Add	7.59	
		For Elevated Installation >15' To 20', Add	15.18	
		For Elevated Installation >20' To 25', Add	18.98	
		For Elevated Installation >25' To 30', Add	26.57	
		For Elevated Installation >30' To 35', Add	30.36	
		For Elevated Installation >35' To 40', Add	37.95	
		For Elevated Installation >40', Add	41.75	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-2559	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	114.77	34.63
		For Mogul LB, Add	16.81	
		For Work In Restricted Working Space, Add	25.97	
		For Elevated Installation >10' To 15', Add	8.66	
		For Elevated Installation >15' To 20', Add	17.32	
		For Elevated Installation >20' To 25', Add	21.65	
		For Elevated Installation >25' To 30', Add	30.30	
		For Elevated Installation >30' To 35', Add	34.63	
		For Elevated Installation >35' To 40', Add	43.29	
		For Elevated Installation >40', Add	47.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	
26 05 33 13-2560	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	132.31	37.96
		For Mogul LB, Add	23.33	
		For Work In Restricted Working Space, Add	28.46	
		For Elevated Installation >10' To 15', Add	9.49	
		For Elevated Installation >15' To 20', Add	18.98	
		For Elevated Installation >20' To 25', Add	23.72	
		For Elevated Installation >25' To 30', Add	33.21	
		For Elevated Installation >30' To 35', Add	37.95	
		For Elevated Installation >35' To 40', Add	47.44	
		For Elevated Installation >40', Add	52.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-2561	EA	2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	176.65	45.54
		For Mogul LB, Add	41.41	
		For Work In Restricted Working Space, Add	34.16	
		For Elevated Installation >10' To 15', Add	11.39	
		For Elevated Installation >15' To 20', Add	22.77	
		For Elevated Installation >20' To 25', Add	28.46	
		For Elevated Installation >25' To 30', Add	39.85	
		For Elevated Installation >30' To 35', Add	45.54	
		For Elevated Installation >35' To 40', Add	56.93	
		For Elevated Installation >40', Add	62.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.16	
26 05 33 13-2562	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	273.45	64.05
		For Mogul LB, Add	77.00	
		For Work In Restricted Working Space, Add	48.03	
		For Elevated Installation >10' To 15', Add	16.01	
		For Elevated Installation >15' To 20', Add	32.02	
		For Elevated Installation >20' To 25', Add	40.03	
		For Elevated Installation >25' To 30', Add	56.04	
		For Elevated Installation >30' To 35', Add	64.04	
		For Elevated Installation >35' To 40', Add	80.06	
		For Elevated Installation >40', Add	88.06	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.03	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2563	EA		3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	349.96	85.39
			For Mogul LB, Add	91.69	
			For Work In Restricted Working Space, Add	64.04	
			For Elevated Installation >10' To 15', Add	21.35	
			For Elevated Installation >15' To 20', Add	42.70	
			For Elevated Installation >20' To 25', Add	53.37	
			For Elevated Installation >25' To 30', Add	74.72	
			For Elevated Installation >30' To 35', Add	85.39	
			For Elevated Installation >35' To 40', Add	106.74	
			For Elevated Installation >40', Add	117.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.04	
26 05 33 13-2564	EA		3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	498.57	106.74
			For Mogul LB, Add	160.45	
			For Work In Restricted Working Space, Add	80.06	
			For Elevated Installation >10' To 15', Add	26.69	
			For Elevated Installation >15' To 20', Add	53.37	
			For Elevated Installation >20' To 25', Add	66.71	
			For Elevated Installation >25' To 30', Add	93.40	
			For Elevated Installation >30' To 35', Add	106.74	
			For Elevated Installation >35' To 40', Add	133.43	
			For Elevated Installation >40', Add	146.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.06	
26 05 33 13-2565	EA		4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	655.90	129.98
			For Mogul LB, Add	231.95	
			For Work In Restricted Working Space, Add	97.49	
			For Elevated Installation >10' To 15', Add	32.50	
			For Elevated Installation >15' To 20', Add	64.99	
			For Elevated Installation >20' To 25', Add	81.24	
			For Elevated Installation >25' To 30', Add	113.74	
			For Elevated Installation >30' To 35', Add	129.99	
			For Elevated Installation >35' To 40', Add	162.49	
			For Elevated Installation >40', Add	178.73	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.49	
26 05 33 13-2566			Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2543)	76.99	26.09
26 05 33 13-2567	EA		1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	76.99	26.09
			For Work In Restricted Working Space, Add	19.57	
			For Elevated Installation >10' To 15', Add	6.52	
			For Elevated Installation >15' To 20', Add	13.05	
			For Elevated Installation >20' To 25', Add	16.31	
			For Elevated Installation >25' To 30', Add	22.83	
			For Elevated Installation >30' To 35', Add	26.09	
			For Elevated Installation >35' To 40', Add	32.62	
			For Elevated Installation >40', Add	35.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57	
26 05 33 13-2568	EA		3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	91.04	30.36
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.98	
			For Elevated Installation >25' To 30', Add	26.57	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-2569	EA		1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	104.46	33.21
			For Work In Restricted Working Space, Add	24.91	
			For Elevated Installation >10' To 15', Add	8.30	
			For Elevated Installation >15' To 20', Add	16.61	
			For Elevated Installation >20' To 25', Add	20.76	
			For Elevated Installation >25' To 30', Add	29.06	
			For Elevated Installation >30' To 35', Add	33.21	
			For Elevated Installation >35' To 40', Add	41.52	
			For Elevated Installation >40', Add	45.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33 13-2570	EA		1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	127.36	37.96
			For Work In Restricted Working Space, Add	28.46	
			For Elevated Installation >10' To 15', Add	9.49	
			For Elevated Installation >15' To 20', Add	18.98	
			For Elevated Installation >20' To 25', Add	23.72	
			For Elevated Installation >25' To 30', Add	33.21	
			For Elevated Installation >30' To 35', Add	37.95	
			For Elevated Installation >35' To 40', Add	47.44	
			For Elevated Installation >40', Add	52.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-2571	EA		1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	146.59	41.75
			For Work In Restricted Working Space, Add	31.31	
			For Elevated Installation >10' To 15', Add	10.44	
			For Elevated Installation >15' To 20', Add	20.87	
			For Elevated Installation >20' To 25', Add	26.09	
			For Elevated Installation >25' To 30', Add	36.53	
			For Elevated Installation >30' To 35', Add	41.75	
			For Elevated Installation >35' To 40', Add	52.19	
			For Elevated Installation >40', Add	57.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.31	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-2572	EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	194.36		48.86
	For Work In Restricted Working Space, Add	36.65		
	For Elevated Installation >10' To 15', Add	12.22		
	For Elevated Installation >15' To 20', Add	24.43		
	For Elevated Installation >20' To 25', Add	30.54		
	For Elevated Installation >25' To 30', Add	42.75		
	For Elevated Installation >30' To 35', Add	48.86		
	For Elevated Installation >35' To 40', Add	61.08		
	For Elevated Installation >40', Add	67.18		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.65		
26 05 33 13-2573	EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	305.49		71.16
	For Work In Restricted Working Space, Add	53.37		
	For Elevated Installation >10' To 15', Add	17.79		
	For Elevated Installation >15' To 20', Add	35.58		
	For Elevated Installation >20' To 25', Add	44.48		
	For Elevated Installation >25' To 30', Add	62.27		
	For Elevated Installation >30' To 35', Add	71.16		
	For Elevated Installation >35' To 40', Add	88.95		
	For Elevated Installation >40', Add	97.85		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.37		
26 05 33 13-2574	EA 3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	394.82		92.51
	For Work In Restricted Working Space, Add	69.38		
	For Elevated Installation >10' To 15', Add	23.13		
	For Elevated Installation >15' To 20', Add	46.25		
	For Elevated Installation >20' To 25', Add	57.82		
	For Elevated Installation >25' To 30', Add	80.94		
	For Elevated Installation >30' To 35', Add	92.51		
	For Elevated Installation >35' To 40', Add	115.64		
	For Elevated Installation >40', Add	127.20		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.38		
26 05 33 13-2575	EA 3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	624.33		113.85
	For Work In Restricted Working Space, Add	85.39		
	For Elevated Installation >10' To 15', Add	28.46		
	For Elevated Installation >15' To 20', Add	56.93		
	For Elevated Installation >20' To 25', Add	71.16		
	For Elevated Installation >25' To 30', Add	99.62		
	For Elevated Installation >30' To 35', Add	113.86		
	For Elevated Installation >35' To 40', Add	142.32		
	For Elevated Installation >40', Add	156.55		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.39		
26 05 33 13-2576	EA 4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	716.78		137.11
	For Work In Restricted Working Space, Add	102.83		
	For Elevated Installation >10' To 15', Add	34.28		
	For Elevated Installation >15' To 20', Add	68.55		
	For Elevated Installation >20' To 25', Add	85.69		
	For Elevated Installation >25' To 30', Add	119.97		
	For Elevated Installation >30' To 35', Add	137.10		
	For Elevated Installation >35' To 40', Add	171.38		
	For Elevated Installation >40', Add	188.52		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.83		
26 05 33 13-2577	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2543)			
26 05 33 13-2578	EA 1 1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	67.10		22.77
	For Work In Restricted Working Space, Add	17.08		
	For Elevated Installation >10' To 15', Add	5.69		
	For Elevated Installation >15' To 20', Add	11.39		
	For Elevated Installation >20' To 25', Add	14.23		
	For Elevated Installation >25' To 30', Add	19.93		
	For Elevated Installation >30' To 35', Add	22.77		
	For Elevated Installation >35' To 40', Add	28.47		
	For Elevated Installation >40', Add	31.31		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08		
26 05 33 13-2579	EA 3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	77.58		26.09
	For Work In Restricted Working Space, Add	19.57		
	For Elevated Installation >10' To 15', Add	6.52		
	For Elevated Installation >15' To 20', Add	13.05		
	For Elevated Installation >20' To 25', Add	16.31		
	For Elevated Installation >25' To 30', Add	22.83		
	For Elevated Installation >30' To 35', Add	26.09		
	For Elevated Installation >35' To 40', Add	32.62		
	For Elevated Installation >40', Add	35.88		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57		
26 05 33 13-2580	EA 1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	93.13		29.89
	For Work In Restricted Working Space, Add	22.42		
	For Elevated Installation >10' To 15', Add	7.47		
	For Elevated Installation >15' To 20', Add	14.94		
	For Elevated Installation >20' To 25', Add	18.68		
	For Elevated Installation >25' To 30', Add	26.15		
	For Elevated Installation >30' To 35', Add	29.89		
	For Elevated Installation >35' To 40', Add	37.36		
	For Elevated Installation >40', Add	41.10		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.42		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2581	EA	1-1/4"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.74 25.97 8.66 17.32 21.65 30.30 34.63 43.29 47.62 25.97	34.63
26 05 33 13-2582	EA	1-1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.20 28.46 9.49 18.98 23.72 33.21 37.95 47.44 52.18 28.46	37.96
26 05 33 13-2583	EA	2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.29 34.16 11.39 22.77 28.46 39.85 45.54 56.93 62.62 34.16	45.54
26 05 33 13-2584	EA	2-1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.44 48.03 16.01 32.02 40.03 56.04 64.04 80.06 88.06 48.03	64.05
26 05 33 13-2585	EA	3"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	347.40 64.04 21.35 42.70 53.37 74.72 85.39 106.74 117.41 64.04	85.39
26 05 33 13-2586	EA	3-1/2"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	490.37 80.06 26.69 53.37 66.71 93.40 106.74 133.43 146.77 80.06	106.74
26 05 33 13-2587	EA	4"	Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	630.57 97.49 32.50 64.99 81.24 113.74 129.99 162.49 178.73 97.49	129.98
26 05 33 13-2588	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2543)				
26 05 33 13-2589	EA	1/2"	Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.16 22.42 7.47 14.94 18.68 26.15 29.89 37.36 41.10 22.42	29.89

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2590	EA	3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	102.56	33.21
			For Work In Restricted Working Space, Add	24.91	
			For Elevated Installation >10' To 15', Add	8.30	
			For Elevated Installation >15' To 20', Add	16.61	
			For Elevated Installation >20' To 25', Add	20.76	
			For Elevated Installation >25' To 30', Add	29.06	
			For Elevated Installation >30' To 35', Add	33.21	
			For Elevated Installation >35' To 40', Add	41.52	
			For Elevated Installation >40', Add	45.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33	13-2591	EA	1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	124.36	36.53
			For Work In Restricted Working Space, Add	27.40	
			For Elevated Installation >10' To 15', Add	9.13	
			For Elevated Installation >15' To 20', Add	18.26	
			For Elevated Installation >20' To 25', Add	22.83	
			For Elevated Installation >25' To 30', Add	31.96	
			For Elevated Installation >30' To 35', Add	36.53	
			For Elevated Installation >35' To 40', Add	45.66	
			For Elevated Installation >40', Add	50.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.40	
26 05 33	13-2592	EA	1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	143.27	41.75
			For Work In Restricted Working Space, Add	31.31	
			For Elevated Installation >10' To 15', Add	10.44	
			For Elevated Installation >15' To 20', Add	20.87	
			For Elevated Installation >20' To 25', Add	26.09	
			For Elevated Installation >25' To 30', Add	36.53	
			For Elevated Installation >30' To 35', Add	41.75	
			For Elevated Installation >35' To 40', Add	52.19	
			For Elevated Installation >40', Add	57.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.31	
26 05 33	13-2593	EA	1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	181.98	45.54
			For Work In Restricted Working Space, Add	34.16	
			For Elevated Installation >10' To 15', Add	11.39	
			For Elevated Installation >15' To 20', Add	22.77	
			For Elevated Installation >20' To 25', Add	28.46	
			For Elevated Installation >25' To 30', Add	39.85	
			For Elevated Installation >30' To 35', Add	45.54	
			For Elevated Installation >35' To 40', Add	56.93	
			For Elevated Installation >40', Add	62.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.16	
26 05 33	13-2594	EA	2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	220.29	55.98
			For Work In Restricted Working Space, Add	41.99	
			For Elevated Installation >10' To 15', Add	14.00	
			For Elevated Installation >15' To 20', Add	27.99	
			For Elevated Installation >20' To 25', Add	34.99	
			For Elevated Installation >25' To 30', Add	48.98	
			For Elevated Installation >30' To 35', Add	55.98	
			For Elevated Installation >35' To 40', Add	69.98	
			For Elevated Installation >40', Add	76.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.99	
26 05 33	13-2595	EA	2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	404.52	82.07
			For Work In Restricted Working Space, Add	61.55	
			For Elevated Installation >10' To 15', Add	20.52	
			For Elevated Installation >15' To 20', Add	41.04	
			For Elevated Installation >20' To 25', Add	51.30	
			For Elevated Installation >25' To 30', Add	71.81	
			For Elevated Installation >30' To 35', Add	82.07	
			For Elevated Installation >35' To 40', Add	102.59	
			For Elevated Installation >40', Add	112.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.55	
26 05 33	13-2596	EA	3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	500.37	106.74
			For Work In Restricted Working Space, Add	80.06	
			For Elevated Installation >10' To 15', Add	26.69	
			For Elevated Installation >15' To 20', Add	53.37	
			For Elevated Installation >20' To 25', Add	66.71	
			For Elevated Installation >25' To 30', Add	93.40	
			For Elevated Installation >30' To 35', Add	106.74	
			For Elevated Installation >35' To 40', Add	133.43	
			For Elevated Installation >40', Add	146.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.06	
26 05 33	13-2597	EA	3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	708.71	131.89
			For Work In Restricted Working Space, Add	99.62	
			For Elevated Installation >10' To 15', Add	33.21	
			For Elevated Installation >15' To 20', Add	66.42	
			For Elevated Installation >20' To 25', Add	83.02	
			For Elevated Installation >25' To 30', Add	116.23	
			For Elevated Installation >30' To 35', Add	132.83	
			For Elevated Installation >35' To 40', Add	166.04	
			For Elevated Installation >40', Add	182.64	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	99.62	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2598	EA		4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	855.59	158.45
			For Work In Restricted Working Space, Add	118.84	
			For Elevated Installation >10' To 15', Add	39.61	
			For Elevated Installation >15' To 20', Add	79.23	
			For Elevated Installation >20' To 25', Add	99.03	
			For Elevated Installation >25' To 30', Add	138.65	
			For Elevated Installation >30' To 35', Add	158.45	
			For Elevated Installation >35' To 40', Add	198.07	
			For Elevated Installation >40', Add	217.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.84	
26 05 33 13-2599			Threaded, Malleable Iron Conduit Body (26 05 33 13-2542)		
			Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)		
26 05 33 13-2600			Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)		
26 05 33 13-2601	EA		1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	68.82	22.77
			For Work In Restricted Working Space, Add	17.08	
			For Elevated Installation >10' To 15', Add	5.69	
			For Elevated Installation >15' To 20', Add	11.39	
			For Elevated Installation >20' To 25', Add	14.23	
			For Elevated Installation >25' To 30', Add	19.93	
			For Elevated Installation >30' To 35', Add	22.77	
			For Elevated Installation >35' To 40', Add	28.47	
			For Elevated Installation >40', Add	31.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-2602	EA		3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	79.81	26.09
			For Work In Restricted Working Space, Add	19.57	
			For Elevated Installation >10' To 15', Add	6.52	
			For Elevated Installation >15' To 20', Add	13.05	
			For Elevated Installation >20' To 25', Add	16.31	
			For Elevated Installation >25' To 30', Add	22.83	
			For Elevated Installation >30' To 35', Add	26.09	
			For Elevated Installation >35' To 40', Add	32.62	
			For Elevated Installation >40', Add	35.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57	
26 05 33 13-2603	EA		1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	97.62	30.36
			For Work In Restricted Working Space, Add	22.77	
			For Elevated Installation >10' To 15', Add	7.59	
			For Elevated Installation >15' To 20', Add	15.18	
			For Elevated Installation >20' To 25', Add	18.98	
			For Elevated Installation >25' To 30', Add	26.57	
			For Elevated Installation >30' To 35', Add	30.36	
			For Elevated Installation >35' To 40', Add	37.95	
			For Elevated Installation >40', Add	41.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.77	
26 05 33 13-2604	EA		1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	125.56	34.63
			For Work In Restricted Working Space, Add	25.97	
			For Elevated Installation >10' To 15', Add	8.66	
			For Elevated Installation >15' To 20', Add	17.32	
			For Elevated Installation >20' To 25', Add	21.65	
			For Elevated Installation >25' To 30', Add	30.30	
			For Elevated Installation >30' To 35', Add	34.63	
			For Elevated Installation >35' To 40', Add	43.29	
			For Elevated Installation >40', Add	47.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	
26 05 33 13-2605	EA		1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	142.69	37.96
			For Work In Restricted Working Space, Add	28.46	
			For Elevated Installation >10' To 15', Add	9.49	
			For Elevated Installation >15' To 20', Add	18.98	
			For Elevated Installation >20' To 25', Add	23.72	
			For Elevated Installation >25' To 30', Add	33.21	
			For Elevated Installation >30' To 35', Add	37.95	
			For Elevated Installation >35' To 40', Add	47.44	
			For Elevated Installation >40', Add	52.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-2606	EA		2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	193.87	45.54
			For Work In Restricted Working Space, Add	34.16	
			For Elevated Installation >10' To 15', Add	11.39	
			For Elevated Installation >15' To 20', Add	22.77	
			For Elevated Installation >20' To 25', Add	28.47	
			For Elevated Installation >25' To 30', Add	39.85	
			For Elevated Installation >30' To 35', Add	45.54	
			For Elevated Installation >35' To 40', Add	56.93	
			For Elevated Installation >40', Add	62.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.16	
26 05 33 13-2607	EA		2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	323.89	64.05
			For Work In Restricted Working Space, Add	48.04	
			For Elevated Installation >10' To 15', Add	16.01	
			For Elevated Installation >15' To 20', Add	32.02	
			For Elevated Installation >20' To 25', Add	40.03	
			For Elevated Installation >25' To 30', Add	56.04	
			For Elevated Installation >30' To 35', Add	64.05	
			For Elevated Installation >35' To 40', Add	80.06	
			For Elevated Installation >40', Add	88.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.04	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2608 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	457.80 64.05 21.35 42.70 53.37 74.72 85.40 106.75 117.42 64.05	85.39
26 05 33 13-2609 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	628.54 80.06 26.69 53.37 66.71 93.40 106.74 133.43 146.77 80.06	106.74
26 05 33 13-2610 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	752.68 97.49 32.50 65.00 81.25 113.74 129.99 162.49 178.74 97.49	129.98
26 05 33 13-2611 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)		
26 05 33 13-2612 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.57 17.08	22.77
26 05 33 13-2613 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.62 19.57	26.09
26 05 33 13-2614 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.83 22.77	30.36
26 05 33 13-2615 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.37 25.97	34.63
26 05 33 13-2616 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.13 28.46	37.96
26 05 33 13-2617 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	186.80 34.16	45.54
26 05 33 13-2618 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.62 48.04	64.05
26 05 33 13-2619 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	387.19 64.05	85.39
26 05 33 13-2620 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	670.12 80.06	106.74
26 05 33 13-2621 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	783.35 97.49	129.98
26 05 33 13-2622 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)		
26 05 33 13-2623 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.86 19.57 6.52 13.05 16.31 22.83 26.09 32.62 35.88 19.57	26.09
26 05 33 13-2624 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	100.05 23.13 7.71 15.42 19.27 26.98 30.84 38.55 42.40 23.13	30.36



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2625	EA	1"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	117.75	33.21
			For Work In Restricted Working Space, Add	24.91	
			For Elevated Installation >10' To 15', Add	8.30	
			For Elevated Installation >15' To 20', Add	16.61	
			For Elevated Installation >20' To 25', Add	20.76	
			For Elevated Installation >25' To 30', Add	29.06	
			For Elevated Installation >30' To 35', Add	33.21	
			For Elevated Installation >35' To 40', Add	41.52	
			For Elevated Installation >40', Add	45.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.91	
26 05 33 13-2626	EA	1-1/4"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	147.49	37.96
			For Work In Restricted Working Space, Add	28.11	
			For Elevated Installation >10' To 15', Add	9.37	
			For Elevated Installation >15' To 20', Add	18.74	
			For Elevated Installation >20' To 25', Add	23.42	
			For Elevated Installation >25' To 30', Add	32.79	
			For Elevated Installation >30' To 35', Add	37.48	
			For Elevated Installation >35' To 40', Add	46.85	
			For Elevated Installation >40', Add	51.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.11	
26 05 33 13-2627	EA	1-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	169.02	41.75
			For Work In Restricted Working Space, Add	31.31	
			For Elevated Installation >10' To 15', Add	10.44	
			For Elevated Installation >15' To 20', Add	20.87	
			For Elevated Installation >20' To 25', Add	26.09	
			For Elevated Installation >25' To 30', Add	36.53	
			For Elevated Installation >30' To 35', Add	41.75	
			For Elevated Installation >35' To 40', Add	52.19	
			For Elevated Installation >40', Add	57.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.31	
26 05 33 13-2628	EA	2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	223.43	48.86
			For Work In Restricted Working Space, Add	36.65	
			For Elevated Installation >10' To 15', Add	12.22	
			For Elevated Installation >15' To 20', Add	24.43	
			For Elevated Installation >20' To 25', Add	30.54	
			For Elevated Installation >25' To 30', Add	42.75	
			For Elevated Installation >30' To 35', Add	48.86	
			For Elevated Installation >35' To 40', Add	61.08	
			For Elevated Installation >40', Add	67.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.65	
26 05 33 13-2629	EA	2-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	284.16	71.16
			For Work In Restricted Working Space, Add	53.37	
			For Elevated Installation >10' To 15', Add	17.79	
			For Elevated Installation >15' To 20', Add	35.58	
			For Elevated Installation >20' To 25', Add	44.48	
			For Elevated Installation >25' To 30', Add	62.27	
			For Elevated Installation >30' To 35', Add	71.16	
			For Elevated Installation >35' To 40', Add	88.95	
			For Elevated Installation >40', Add	97.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.37	
26 05 33 13-2630	EA	3"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	407.85	92.51
			For Work In Restricted Working Space, Add	69.38	
			For Elevated Installation >10' To 15', Add	23.13	
			For Elevated Installation >15' To 20', Add	46.25	
			For Elevated Installation >20' To 25', Add	57.82	
			For Elevated Installation >25' To 30', Add	80.94	
			For Elevated Installation >30' To 35', Add	92.51	
			For Elevated Installation >35' To 40', Add	115.64	
			For Elevated Installation >40', Add	127.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.38	
26 05 33 13-2631	EA	3-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover	707.12	113.85
			For Work In Restricted Working Space, Add	85.39	
			For Elevated Installation >10' To 15', Add	28.46	
			For Elevated Installation >15' To 20', Add	56.93	
			For Elevated Installation >20' To 25', Add	71.16	
			For Elevated Installation >25' To 30', Add	99.62	
			For Elevated Installation >30' To 35', Add	113.86	
			For Elevated Installation >35' To 40', Add	142.32	
			For Elevated Installation >40', Add	156.55	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.39	
26 05 33 13-2632	EA	4"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover.....	818.91	137.11
			For Work In Restricted Working Space, Add	103.18	
			For Elevated Installation >10' To 15', Add	34.39	
			For Elevated Installation >15' To 20', Add	68.79	
			For Elevated Installation >20' To 25', Add	85.99	
			For Elevated Installation >25' To 30', Add	120.38	
			For Elevated Installation >30' To 35', Add	137.58	
			For Elevated Installation >35' To 40', Add	171.97	
			For Elevated Installation >40', Add	189.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.18	

26 05 33 13-2633 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2634 EA 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	69.02	22.77
For Work In Restricted Working Space, Add	17.08	
For Elevated Installation >10' To 15', Add	5.69	
For Elevated Installation >15' To 20', Add	11.38	
For Elevated Installation >20' To 25', Add	14.23	
For Elevated Installation >25' To 30', Add	19.92	
For Elevated Installation >30' To 35', Add	22.77	
For Elevated Installation >35' To 40', Add	28.46	
For Elevated Installation >40', Add	31.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.08	
26 05 33 13-2635 EA 3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	83.37	26.09
For Work In Restricted Working Space, Add	19.57	
For Elevated Installation >10' To 15', Add	6.52	
For Elevated Installation >15' To 20', Add	13.05	
For Elevated Installation >20' To 25', Add	16.31	
For Elevated Installation >25' To 30', Add	22.83	
For Elevated Installation >30' To 35', Add	26.09	
For Elevated Installation >35' To 40', Add	32.62	
For Elevated Installation >40', Add	35.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.57	
26 05 33 13-2636 EA 1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	97.44	29.89
For Work In Restricted Working Space, Add	22.42	
For Elevated Installation >10' To 15', Add	7.47	
For Elevated Installation >15' To 20', Add	14.95	
For Elevated Installation >20' To 25', Add	18.68	
For Elevated Installation >25' To 30', Add	26.16	
For Elevated Installation >30' To 35', Add	29.89	
For Elevated Installation >35' To 40', Add	37.37	
For Elevated Installation >40', Add	41.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.42	
26 05 33 13-2637 EA 1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	130.74	34.63
For Work In Restricted Working Space, Add	25.97	
For Elevated Installation >10' To 15', Add	8.66	
For Elevated Installation >15' To 20', Add	17.32	
For Elevated Installation >20' To 25', Add	21.65	
For Elevated Installation >25' To 30', Add	30.30	
For Elevated Installation >30' To 35', Add	34.63	
For Elevated Installation >35' To 40', Add	43.29	
For Elevated Installation >40', Add	47.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.97	
26 05 33 13-2638 EA 1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	152.41	37.96
For Work In Restricted Working Space, Add	28.46	
For Elevated Installation >10' To 15', Add	9.49	
For Elevated Installation >15' To 20', Add	18.98	
For Elevated Installation >20' To 25', Add	23.72	
For Elevated Installation >25' To 30', Add	33.21	
For Elevated Installation >30' To 35', Add	37.95	
For Elevated Installation >35' To 40', Add	47.44	
For Elevated Installation >40', Add	52.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.46	
26 05 33 13-2639 EA 2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	196.64	45.54
For Work In Restricted Working Space, Add	34.16	
For Elevated Installation >10' To 15', Add	11.39	
For Elevated Installation >15' To 20', Add	22.77	
For Elevated Installation >20' To 25', Add	28.46	
For Elevated Installation >25' To 30', Add	39.85	
For Elevated Installation >30' To 35', Add	45.54	
For Elevated Installation >35' To 40', Add	56.93	
For Elevated Installation >40', Add	62.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.16	
26 05 33 13-2640 EA 2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	442.52	120.15
For Work In Restricted Working Space, Add	90.07	
For Elevated Installation >10' To 15', Add	30.02	
For Elevated Installation >15' To 20', Add	60.05	
For Elevated Installation >20' To 25', Add	75.06	
For Elevated Installation >25' To 30', Add	105.08	
For Elevated Installation >30' To 35', Add	120.09	
For Elevated Installation >35' To 40', Add	150.12	
For Elevated Installation >40', Add	165.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.07	
26 05 33 13-2641 EA 3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	416.84	85.39
For Work In Restricted Working Space, Add	64.05	
For Elevated Installation >10' To 15', Add	21.35	
For Elevated Installation >15' To 20', Add	42.70	
For Elevated Installation >20' To 25', Add	53.37	
For Elevated Installation >25' To 30', Add	74.72	
For Elevated Installation >30' To 35', Add	85.40	
For Elevated Installation >35' To 40', Add	106.75	
For Elevated Installation >40', Add	117.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.05	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
26 05 33 13-2642	EA 3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....		670.12	106.74
	For Work In Restricted Working Space, Add		80.06	
	For Elevated Installation >10' To 15', Add		26.69	
	For Elevated Installation >15' To 20', Add		53.37	
	For Elevated Installation >20' To 25', Add		66.71	
	For Elevated Installation >25' To 30', Add		93.40	
	For Elevated Installation >30' To 35', Add		106.74	
	For Elevated Installation >35' To 40', Add		133.43	
	For Elevated Installation >40', Add		146.77	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		80.06	
26 05 33 13-2643	EA 4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....		783.33	129.98
	For Work In Restricted Working Space, Add		97.49	
	For Elevated Installation >10' To 15', Add		32.50	
	For Elevated Installation >15' To 20', Add		64.99	
	For Elevated Installation >20' To 25', Add		81.24	
	For Elevated Installation >25' To 30', Add		113.74	
	For Elevated Installation >30' To 35', Add		129.98	
	For Elevated Installation >35' To 40', Add		162.48	
	For Elevated Installation >40', Add		178.73	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		97.49	
26 05 33 13-2644	Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2599)			
26 05 33 13-2645	EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover		96.48	29.89
	For Work In Restricted Working Space, Add		22.42	
	For Elevated Installation >10' To 15', Add		7.47	
	For Elevated Installation >15' To 20', Add		14.94	
	For Elevated Installation >20' To 25', Add		18.68	
	For Elevated Installation >25' To 30', Add		26.15	
	For Elevated Installation >30' To 35', Add		29.89	
	For Elevated Installation >35' To 40', Add		37.36	
	For Elevated Installation >40', Add		41.10	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		22.42	
26 05 33 13-2646	EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover		105.60	33.21
	For Work In Restricted Working Space, Add		24.91	
	For Elevated Installation >10' To 15', Add		8.30	
	For Elevated Installation >15' To 20', Add		16.61	
	For Elevated Installation >20' To 25', Add		20.76	
	For Elevated Installation >25' To 30', Add		29.06	
	For Elevated Installation >30' To 35', Add		33.21	
	For Elevated Installation >35' To 40', Add		41.52	
	For Elevated Installation >40', Add		45.67	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.91	
26 05 33 13-2647	EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover		122.30	36.53
	For Work In Restricted Working Space, Add		27.40	
	For Elevated Installation >10' To 15', Add		9.13	
	For Elevated Installation >15' To 20', Add		18.26	
	For Elevated Installation >20' To 25', Add		22.83	
	For Elevated Installation >25' To 30', Add		31.96	
	For Elevated Installation >30' To 35', Add		36.53	
	For Elevated Installation >35' To 40', Add		45.66	
	For Elevated Installation >40', Add		50.23	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		27.40	
26 05 33 13-2648	EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover		145.27	41.75
	For Work In Restricted Working Space, Add		31.31	
	For Elevated Installation >10' To 15', Add		10.44	
	For Elevated Installation >15' To 20', Add		20.87	
	For Elevated Installation >20' To 25', Add		26.09	
	For Elevated Installation >25' To 30', Add		36.53	
	For Elevated Installation >30' To 35', Add		41.75	
	For Elevated Installation >35' To 40', Add		52.19	
	For Elevated Installation >40', Add		57.40	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		31.31	
26 05 33 13-2649	EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover		167.22	45.54
	For Work In Restricted Working Space, Add		34.16	
	For Elevated Installation >10' To 15', Add		11.39	
	For Elevated Installation >15' To 20', Add		22.77	
	For Elevated Installation >20' To 25', Add		28.46	
	For Elevated Installation >25' To 30', Add		39.85	
	For Elevated Installation >30' To 35', Add		45.54	
	For Elevated Installation >35' To 40', Add		56.93	
	For Elevated Installation >40', Add		62.62	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		34.16	
26 05 33 13-2650	EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover		232.87	55.98
	For Work In Restricted Working Space, Add		41.99	
	For Elevated Installation >10' To 15', Add		14.00	
	For Elevated Installation >15' To 20', Add		27.99	
	For Elevated Installation >20' To 25', Add		34.99	
	For Elevated Installation >25' To 30', Add		48.98	
	For Elevated Installation >30' To 35', Add		55.98	
	For Elevated Installation >35' To 40', Add		69.98	
	For Elevated Installation >40', Add		76.97	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		41.99	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2651	EA	2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	.....	371.07	82.07
		For Work In Restricted Working Space, Add	61.55		
		For Elevated Installation >10' To 15', Add	20.52		
		For Elevated Installation >15' To 20', Add	41.04		
		For Elevated Installation >20' To 25', Add	51.30		
		For Elevated Installation >25' To 30', Add	71.81		
		For Elevated Installation >30' To 35', Add	82.07		
		For Elevated Installation >35' To 40', Add	102.59		
		For Elevated Installation >40', Add	112.85		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.55		
26 05 33 13-2652	EA	3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	.....	542.53	106.74
		For Work In Restricted Working Space, Add	80.06		
		For Elevated Installation >10' To 15', Add	26.69		
		For Elevated Installation >15' To 20', Add	53.37		
		For Elevated Installation >20' To 25', Add	66.71		
		For Elevated Installation >25' To 30', Add	93.40		
		For Elevated Installation >30' To 35', Add	106.74		
		For Elevated Installation >35' To 40', Add	133.43		
		For Elevated Installation >40', Add	146.77		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.06		
26 05 33 13-2653	EA	3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	.....	806.42	131.89
		For Work In Restricted Working Space, Add	98.91		
		For Elevated Installation >10' To 15', Add	32.97		
		For Elevated Installation >15' To 20', Add	65.94		
		For Elevated Installation >20' To 25', Add	82.43		
		For Elevated Installation >25' To 30', Add	115.40		
		For Elevated Installation >30' To 35', Add	131.88		
		For Elevated Installation >35' To 40', Add	164.86		
		For Elevated Installation >40', Add	181.34		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.91		
26 05 33 13-2654	EA	4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	.....	902.28	158.45
		For Work In Restricted Working Space, Add	118.84		
		For Elevated Installation >10' To 15', Add	39.61		
		For Elevated Installation >15' To 20', Add	79.23		
		For Elevated Installation >20' To 25', Add	99.03		
		For Elevated Installation >25' To 30', Add	138.65		
		For Elevated Installation >30' To 35', Add	158.45		
		For Elevated Installation >35' To 40', Add	198.07		
		For Elevated Installation >40', Add	217.87		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.84		
26 05 33 13-2655		Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2542)			
		Note: For use with Electrical Metallic Tubing (EMT)			
26 05 33 13-2656		Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2655)			
26 05 33 13-2657	EA	1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	.....	32.85	9.01
		For Work In Restricted Working Space, Add	6.76		
		For Elevated Installation >10' To 15', Add	2.25		
		For Elevated Installation >15' To 20', Add	4.51		
		For Elevated Installation >20' To 25', Add	5.63		
		For Elevated Installation >25' To 30', Add	7.89		
		For Elevated Installation >30' To 35', Add	9.01		
		For Elevated Installation >35' To 40', Add	11.27		
		For Elevated Installation >40', Add	12.39		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76		
26 05 33 13-2658	EA	3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	.....	42.06	11.86
		For Work In Restricted Working Space, Add	8.90		
		For Elevated Installation >10' To 15', Add	2.97		
		For Elevated Installation >15' To 20', Add	5.93		
		For Elevated Installation >20' To 25', Add	7.41		
		For Elevated Installation >25' To 30', Add	10.38		
		For Elevated Installation >30' To 35', Add	11.86		
		For Elevated Installation >35' To 40', Add	14.83		
		For Elevated Installation >40', Add	16.31		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90		
26 05 33 13-2659	EA	1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	.....	56.80	14.70
		For Work In Restricted Working Space, Add	11.03		
		For Elevated Installation >10' To 15', Add	3.68		
		For Elevated Installation >15' To 20', Add	7.35		
		For Elevated Installation >20' To 25', Add	9.19		
		For Elevated Installation >25' To 30', Add	12.87		
		For Elevated Installation >30' To 35', Add	14.71		
		For Elevated Installation >35' To 40', Add	18.39		
		For Elevated Installation >40', Add	20.22		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.03		
26 05 33 13-2660	EA	1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	.....	73.56	18.02
		For Work In Restricted Working Space, Add	13.52		
		For Elevated Installation >10' To 15', Add	4.51		
		For Elevated Installation >15' To 20', Add	9.01		
		For Elevated Installation >20' To 25', Add	11.27		
		For Elevated Installation >25' To 30', Add	15.77		
		For Elevated Installation >30' To 35', Add	18.03		
		For Elevated Installation >35' To 40', Add	22.54		
		For Elevated Installation >40', Add	24.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2661	EA	1-1/2"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.50 15.66 5.22 10.44 13.05 18.27 20.88 26.10 28.70 15.66	20.87
26 05 33 13-2662	EA	2"	Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.50 17.79 5.93 11.86 14.83 20.76 23.72 29.65 32.62 17.79	23.72
26 05 33 13-2663			Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2665)		
26 05 33 13-2664	EA	1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.14 6.76 2.25 4.51 5.63 7.89 9.01 11.27 12.39 6.76	9.01
26 05 33 13-2665	EA	3/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.15 8.90 2.97 5.93 7.41 10.38 11.86 14.83 16.31 8.90	11.86
26 05 33 13-2666	EA	1"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.01 11.03 3.68 7.35 9.19 12.87 14.71 18.39 20.22 11.03	14.70
26 05 33 13-2667	EA	1-1/4"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.24 13.52 4.51 9.01 11.27 15.77 18.03 22.54 24.79 13.52	18.02
26 05 33 13-2668	EA	1-1/2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	90.20 15.66 5.22 10.44 13.05 18.27 20.88 26.10 28.70 15.66	20.87
26 05 33 13-2669	EA	2"	Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.96 17.79 5.93 11.86 14.83 20.76 23.72 29.65 32.62 17.79	23.72

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-2670		Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2655)		
26 05 33 13-2671	EA	1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	42.65	11.86
		For Work In Restricted Working Space, Add	8.90	
		For Elevated Installation >10' To 15', Add	2.97	
		For Elevated Installation >15' To 20', Add	5.93	
		For Elevated Installation >20' To 25', Add	7.41	
		For Elevated Installation >25' To 30', Add	10.38	
		For Elevated Installation >30' To 35', Add	11.86	
		For Elevated Installation >35' To 40', Add	14.83	
		For Elevated Installation >40', Add	16.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-2672	EA	3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	55.50	14.70
		For Work In Restricted Working Space, Add	11.03	
		For Elevated Installation >10' To 15', Add	3.68	
		For Elevated Installation >15' To 20', Add	7.35	
		For Elevated Installation >20' To 25', Add	9.19	
		For Elevated Installation >25' To 30', Add	12.87	
		For Elevated Installation >30' To 35', Add	14.71	
		For Elevated Installation >35' To 40', Add	18.39	
		For Elevated Installation >40', Add	20.22	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.03	
26 05 33 13-2673	EA	1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	66.96	18.02
		For Work In Restricted Working Space, Add	13.52	
		For Elevated Installation >10' To 15', Add	4.51	
		For Elevated Installation >15' To 20', Add	9.01	
		For Elevated Installation >20' To 25', Add	11.27	
		For Elevated Installation >25' To 30', Add	15.77	
		For Elevated Installation >30' To 35', Add	18.03	
		For Elevated Installation >35' To 40', Add	22.54	
		For Elevated Installation >40', Add	24.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-2674	EA	1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	92.34	20.87
		For Work In Restricted Working Space, Add	16.37	
		For Elevated Installation >10' To 15', Add	5.46	
		For Elevated Installation >15' To 20', Add	10.91	
		For Elevated Installation >20' To 25', Add	13.64	
		For Elevated Installation >25' To 30', Add	19.09	
		For Elevated Installation >30' To 35', Add	21.82	
		For Elevated Installation >35' To 40', Add	27.28	
		For Elevated Installation >40', Add	30.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.37	
26 05 33 13-2675	EA	1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	118.22	23.72
		For Work In Restricted Working Space, Add	19.22	
		For Elevated Installation >10' To 15', Add	6.41	
		For Elevated Installation >15' To 20', Add	12.81	
		For Elevated Installation >20' To 25', Add	16.01	
		For Elevated Installation >25' To 30', Add	22.42	
		For Elevated Installation >30' To 35', Add	25.62	
		For Elevated Installation >35' To 40', Add	32.03	
		For Elevated Installation >40', Add	35.23	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.22	
26 05 33 13-2676	EA	2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	158.66	26.56
		For Work In Restricted Working Space, Add	22.06	
		For Elevated Installation >10' To 15', Add	7.35	
		For Elevated Installation >15' To 20', Add	14.71	
		For Elevated Installation >20' To 25', Add	18.38	
		For Elevated Installation >25' To 30', Add	25.74	
		For Elevated Installation >30' To 35', Add	29.41	
		For Elevated Installation >35' To 40', Add	36.77	
		For Elevated Installation >40', Add	40.44	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.06	
26 05 33 13-2677		Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2655)		
26 05 33 13-2678	EA	1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	34.06	9.01
		For Work In Restricted Working Space, Add	6.76	
		For Elevated Installation >10' To 15', Add	2.25	
		For Elevated Installation >15' To 20', Add	4.51	
		For Elevated Installation >20' To 25', Add	5.63	
		For Elevated Installation >25' To 30', Add	7.89	
		For Elevated Installation >30' To 35', Add	9.01	
		For Elevated Installation >35' To 40', Add	11.27	
		For Elevated Installation >40', Add	12.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.76	
26 05 33 13-2679	EA	3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	45.56	11.86
		For Work In Restricted Working Space, Add	8.90	
		For Elevated Installation >10' To 15', Add	2.97	
		For Elevated Installation >15' To 20', Add	5.93	
		For Elevated Installation >20' To 25', Add	7.41	
		For Elevated Installation >25' To 30', Add	10.38	
		For Elevated Installation >30' To 35', Add	11.86	
		For Elevated Installation >35' To 40', Add	14.83	
		For Elevated Installation >40', Add	16.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2680	EA		1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.17 11.03 3.68 7.35 9.19 12.87 14.71 18.39 20.22 11.03	14.70
26 05 33 13-2681	EA		1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.20 13.52 4.51 9.01 11.27 15.77 18.03 22.54 24.79 13.52	18.02
26 05 33 13-2682	EA		1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.33 15.66 5.22 10.44 13.05 18.27 20.88 26.10 28.70 15.66	20.87
26 05 33 13-2683	EA		2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.47 17.79 5.93 11.86 14.83 20.76 23.72 29.65 32.62 17.79	23.72
26 05 33 13-2684			Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-2542)		
26 05 33 13-2685	EA		3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.19 19.50	25.97
26 05 33 13-2686	EA		1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	632.48 36.05	48.03
26 05 33 13-2687	EA		3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,216.59 73.12	97.49
26 05 33 13-2688			Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2542)		
26 05 33 13-2689			Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2688)		
26 05 33 13-2690	EA		1/2" Replacement Stamped Aluminum Conduit Body Cover	12.16	4.63
26 05 33 13-2691	EA		3/4" Replacement Stamped Aluminum Conduit Body Cover	14.85	5.40
26 05 33 13-2692	EA		1" Replacement Stamped Aluminum Conduit Body Cover	19.03	6.93
26 05 33 13-2693	EA		1-1/4" Replacement Stamped Aluminum Conduit Body Cover	23.17	8.48
26 05 33 13-2694	EA		1-1/2" Replacement Stamped Aluminum Conduit Body Cover	28.45	10.03
26 05 33 13-2695	EA		2" Replacement Stamped Aluminum Conduit Body Cover	33.71	11.56
26 05 33 13-2696	EA		2-1/2" Replacement Stamped Aluminum Conduit Body Cover	44.53	13.11
26 05 33 13-2697	EA		3" Replacement Stamped Aluminum Conduit Body Cover	57.67	18.51
26 05 33 13-2698	EA		3-1/2" Replacement Stamped Aluminum Conduit Body Cover	62.61	20.81
26 05 33 13-2699	EA		4" Replacement Stamped Aluminum Conduit Body Cover	78.88	26.21
26 05 33 13-2700			Replacement Cast Steel Conduit Body Cover (26 05 33 13-2688)		
26 05 33 13-2701	EA		1/2" Replacement Cast Steel Conduit Body Cover	14.13	4.63
26 05 33 13-2702	EA		3/4" Replacement Cast Steel Conduit Body Cover	16.57	5.40
26 05 33 13-2703	EA		1" Replacement Cast Steel Conduit Body Cover	23.29	6.93
26 05 33 13-2704	EA		1-1/4" Replacement Cast Steel Conduit Body Cover	28.93	8.48
26 05 33 13-2705	EA		1-1/2" Replacement Cast Steel Conduit Body Cover	35.16	10.03
26 05 33 13-2706	EA		2" Replacement Cast Steel Conduit Body Cover	41.39	11.56
26 05 33 13-2707	EA		2-1/2" Replacement Cast Steel Conduit Body Cover	47.57	13.11
26 05 33 13-2708	EA		3" Replacement Cast Steel Conduit Body Cover	64.87	18.51
26 05 33 13-2709	EA		3-1/2" Replacement Cast Steel Conduit Body Cover	73.94	20.81
26 05 33 13-2710	EA		4" Replacement Cast Steel Conduit Body Cover	93.22	26.21
26 05 33 13-2711			Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2688)		
26 05 33 13-2712	EA		1/2" Replacement Velbuna Composition Conduit Body Gasket	11.27	4.63
26 05 33 13-2713	EA		3/4" Replacement Velbuna Composition Conduit Body Gasket	12.87	5.40

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2714	EA	1" Replacement Velbuna Composition Conduit Body Gasket.....	16.82	6.93	
26 05 33 13-2715	EA	1-1/4" Replacement Velbuna Composition Conduit Body Gasket.....	21.83	8.48	
26 05 33 13-2716	EA	1-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	24.91	10.03	
26 05 33 13-2717	EA	2" Replacement Velbuna Composition Conduit Body Gasket.....	29.62	11.56	
26 05 33 13-2718	EA	2-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	38.94	13.11	
26 05 33 13-2719	EA	3" Replacement Velbuna Composition Conduit Body Gasket.....	50.69	18.51	
26 05 33 13-2720	EA	3-1/2" Replacement Velbuna Composition Conduit Body Gasket.....	56.00	20.81	
26 05 33 13-2721	EA	4" Replacement Velbuna Composition Conduit Body Gasket.....	66.68	26.21	
26 05 33 13-2722 Replacement Neoprene Conduit Body Gasket (26 05 33 13-2688)					
26 05 33 13-2723	EA	1/2" Replacement Neoprene Conduit Body Gasket.....	12.64	4.63	
26 05 33 13-2724	EA	3/4" Replacement Neoprene Conduit Body Gasket.....	14.18	5.40	
26 05 33 13-2725	EA	1" Replacement Neoprene Conduit Body Gasket.....	18.55	6.93	
26 05 33 13-2726	EA	1-1/4" Replacement Neoprene Conduit Body Gasket.....	22.71	8.48	
26 05 33 13-2727	EA	1-1/2" Replacement Neoprene Conduit Body Gasket.....	25.79	10.03	
26 05 33 13-2728	EA	2" Replacement Neoprene Conduit Body Gasket.....	29.71	11.56	
26 05 33 13-2729	EA	2-1/2" Replacement Neoprene Conduit Body Gasket.....	39.15	13.11	
26 05 33 13-2730	EA	3" Replacement Neoprene Conduit Body Gasket.....	50.90	18.51	
26 05 33 13-2731	EA	3-1/2" Replacement Neoprene Conduit Body Gasket.....	57.46	20.81	
26 05 33 13-2732	EA	4" Replacement Neoprene Conduit Body Gasket.....	68.14	26.21	
26 05 33 13-2733 Cutting Knockouts In-Place Metal Boxes Or Enclosures (26 05 33 13-0058)					
Note: For use when connecting conduit to an existing in-place system.					
26 05 33 13-2734	EA	1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	19.65		
		For Work In Restricted Working Space, Add.....	5.90		
26 05 33 13-2735	EA	3/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	22.12		
		For Work In Restricted Working Space, Add.....	6.64		
26 05 33 13-2736	EA	1", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	26.02		
		For Work In Restricted Working Space, Add.....	7.81		
26 05 33 13-2737	EA	1-1/4", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	28.88		
		For Work In Restricted Working Space, Add.....	8.66		
26 05 33 13-2738	EA	1-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	32.52		
		For Work In Restricted Working Space, Add.....	9.76		
26 05 33 13-2739	EA	2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	38.51		
		For Work In Restricted Working Space, Add.....	11.55		
26 05 33 13-2740	EA	2-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	45.53		
		For Work In Restricted Working Space, Add.....	13.66		
26 05 33 13-2741	EA	3", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	52.04		
		For Work In Restricted Working Space, Add.....	15.61		
26 05 33 13-2742	EA	3-1/2", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	58.53		
		For Work In Restricted Working Space, Add.....	17.56		
26 05 33 13-2743	EA	4", Cutting Knockouts In-Place Metal Boxes Or Enclosures.....	65.04		
		For Work In Restricted Working Space, Add.....	19.51		
26 05 33 13-2744 Buried Pipe Or Conduit Wrap (26 05 33 13)					
26 05 33 13-2745 All-Weather Corrosion Protection Tape For Pipe Or Conduit (26 05 33 13-2744)					
Note: Priced by the linear feet of pipe or conduit the tape is installed on.					
26 05 33 13-2746	LF	Pipe Or Conduit Wrap For 1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	2.76		
26 05 33 13-2747	LF	Pipe Or Conduit Wrap For 3/4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	3.18		
26 05 33 13-2748	LF	Pipe Or Conduit Wrap For 1" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	3.68		
26 05 33 13-2749	LF	Pipe Or Conduit Wrap For 1-1/4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	4.23		
26 05 33 13-2750	LF	Pipe Or Conduit Wrap For 1-1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	4.82		
26 05 33 13-2751	LF	Pipe Or Conduit Wrap For 2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	5.79		
26 05 33 13-2752	LF	Pipe Or Conduit Wrap For 2-1/2" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	6.43		
26 05 33 13-2753	LF	Pipe Or Conduit Wrap For 3" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	7.09		
26 05 33 13-2754	LF	Pipe Or Conduit Wrap For 4" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	8.82		
26 05 33 13-2755	LF	Pipe Or Conduit Wrap For 5" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	10.19		
26 05 33 13-2756	LF	Pipe Or Conduit Wrap For 6" Diameter Pipe, 10 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 50).....	11.56		
26 05 33 13-2757	LF	Pipe Or Conduit Wrap For 1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	2.78		
26 05 33 13-2758	LF	Pipe Or Conduit Wrap For 3/4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	3.30		
26 05 33 13-2759	LF	Pipe Or Conduit Wrap For 1" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	3.85		
26 05 33 13-2760	LF	Pipe Or Conduit Wrap For 1-1/4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	4.44		
26 05 33 13-2761	LF	Pipe Or Conduit Wrap For 1-1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	5.09		
26 05 33 13-2762	LF	Pipe Or Conduit Wrap For 2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	6.17		
26 05 33 13-2763	LF	Pipe Or Conduit Wrap For 2-1/2" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	7.03		
26 05 33 13-2764	LF	Pipe Or Conduit Wrap For 3" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	7.95		
26 05 33 13-2765	LF	Pipe Or Conduit Wrap For 4" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	9.99		
26 05 33 13-2766	LF	Pipe Or Conduit Wrap For 5" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	11.66		
26 05 33 13-2767	LF	Pipe Or Conduit Wrap For 6" Diameter Pipe, 20 Mil, All-Weather Corrosion Protection Tape (3M Scotchrap 51).....	13.31		

26 05 33 16 Boxes for Electrical Systems (26 05 33)

See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0001 Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)		
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0128 for steel box/switch assemblies.		
26 05 33 16-0002 4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0003 EA 1-1/2" Depth, 4" Square Steel Box.....	41.33	19.47
For Stud Bracket, Add	0.59	
26 05 33 16-0004 EA 2-1/8" Depth, 4" Square Steel Box.....	42.41	19.47
For Stud Bracket, Add	1.05	
26 05 33 16-0005 EA 3-1/2" Depth, 4" Square Steel Box.....	46.13	19.47
For Stud Bracket, Add	1.15	
26 05 33 16-0006 EA 1-1/2" Depth, 4" Square Steel Extension Ring.....	31.26	12.98
26 05 33 16-0007 EA 2-1/8" Depth, 4" Square Steel Extension Ring.....	27.50	12.98
26 05 33 16-0008 EA 1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.12	6.49
26 05 33 16-0009 EA 5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.29	6.49
26 05 33 16-0010 EA 3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.41	6.49
26 05 33 16-0011 EA 1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.82	6.49
26 05 33 16-0012 EA 1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	14.94	6.49
26 05 33 16-0013 EA 1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	16.22	6.49
26 05 33 16-0014 EA 1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	14.60	6.49
26 05 33 16-0015 EA 5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	14.73	6.49
26 05 33 16-0016 EA 3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	14.88	6.49
26 05 33 16-0017 EA 1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	16.20	6.49
26 05 33 16-0018 EA 1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	16.47	6.49
26 05 33 16-0019 EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	18.14	6.49
26 05 33 16-0020 EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	15.25	6.49
26 05 33 16-0021 EA 1" Depth, Fixture Cover, 4" Square Mud Rings.....	16.31	6.49
26 05 33 16-0022 EA One Toggle Switch, 4" Square Steel Exposed Work Cover.....	14.59	6.49
26 05 33 16-0023 EA Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	14.68	6.49
26 05 33 16-0024 EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	14.56	6.49
26 05 33 16-0025 EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	14.84	6.49
26 05 33 16-0026 EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	15.08	6.49
26 05 33 16-0027 EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.03	6.49
26 05 33 16-0028 EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.04	6.49
26 05 33 16-0029 EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	18.03	6.49
26 05 33 16-0030 EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.04	6.49
26 05 33 16-0031 EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	15.73	6.49
26 05 33 16-0032 EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.03	6.49
26 05 33 16-0033 EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	18.03	6.49
26 05 33 16-0034 EA Flat, 4" Square Steel Exposed Work Cover.....	13.74	6.49
26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0036 EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	45.33	19.47
26 05 33 16-0037 EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	42.88	19.47
For Stud Bracket, Add	0.55	
26 05 33 16-0038 EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	55.19	19.47
26 05 33 16-0039 EA 1-1/2" Depth, 4-11/16" Square Extension Ring.....	32.29	12.98
26 05 33 16-0040 EA 2-1/8" Depth, 4-11/16" Square Extension Ring.....	32.89	12.98
26 05 33 16-0041 EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	16.57	6.49
26 05 33 16-0042 EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	16.60	6.49
26 05 33 16-0043 EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.64	6.49
26 05 33 16-0044 EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.22	6.49
26 05 33 16-0045 EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	17.13	6.49
26 05 33 16-0046 EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	21.48	6.49
26 05 33 16-0047 EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	17.40	6.49
26 05 33 16-0048 EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	17.62	6.49
26 05 33 16-0049 EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	17.64	6.49
26 05 33 16-0050 EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	19.18	6.49
26 05 33 16-0051 EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	19.50	6.49
26 05 33 16-0052 EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	23.22	6.49
26 05 33 16-0053 EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	17.20	6.49
26 05 33 16-0054 EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	17.31	6.49
26 05 33 16-0055 EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	20.19	6.49
26 05 33 16-0056 EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	21.00	6.49
26 05 33 16-0057 EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	19.95	6.49
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover.....	19.07	6.49
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	22.02	6.49
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	20.99	6.49
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	20.99	6.49
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	20.99	6.49
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover.....	14.40	6.49
26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	20.61	9.75
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box.....	14.71	6.50
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes.....	23.22	9.75
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes.....	24.56	9.75

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0069	4" Octagon Steel Boxes And Covers (26 05 33 16-0001)			
26 05 33 16-0070	EA	1-1/2" Depth, 4" Steel Octagon Box.....	34.40	16.22
		<i>For Stud Bracket, Add</i>	1.42	
26 05 33 16-0071	EA	2-1/8" Depth, 4" Steel Octagon Box.....	35.35	16.22
26 05 33 16-0072	EA	Flat, 4" Octagon Steel Exposed Work Cover	13.68	6.49
26 05 33 16-0073	4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)			
	Note: Placed in concrete slabs or walls.			
26 05 33 16-0074	EA	2" Depth, 4" Steel Octagonal Concrete Ring	56.21	
26 05 33 16-0075	EA	2-1/2" Depth, 4" Steel Octagonal Concrete Ring	59.50	
26 05 33 16-0076	EA	3" Depth, 4" Steel Octagonal Concrete Ring	62.28	
26 05 33 16-0077	EA	3-1/2" Depth, 4" Steel Octagonal Concrete Ring	65.00	
26 05 33 16-0078	EA	4" Depth, 4" Steel Octagonal Concrete Ring	70.21	
26 05 33 16-0079	EA	5" Depth, 4" Steel Octagonal Concrete Ring	75.57	
26 05 33 16-0080	EA	6" Depth, 4" Steel Octagonal Concrete Ring	79.91	
26 05 33 16-0081	EA	Flat, 4" Steel Octagonal Concrete Cover	14.99	6.49
26 05 33 16-0082	4-1/2" Steel Gang Boxes (26 05 33 16-0001)			
26 05 33 16-0083	EA	2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	47.83	16.22
26 05 33 16-0084	EA	3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	52.37	17.52
26 05 33 16-0085	EA	4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	62.14	19.47
26 05 33 16-0086	EA	5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	79.00	21.42
26 05 33 16-0087	EA	6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	112.76	23.36
26 05 33 16-0088	EA	2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	62.46	16.22
26 05 33 16-0089	EA	3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	67.97	17.52
26 05 33 16-0090	EA	4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	88.47	19.47
26 05 33 16-0091	EA	5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	111.75	21.42
26 05 33 16-0092	EA	6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	177.51	23.36
26 05 33 16-0093	EA	2 Device, Gang Box Mud Ring.....	20.59	6.49
26 05 33 16-0094	EA	3 Device, Gang Box Mud Ring.....	20.84	6.49
26 05 33 16-0095	EA	4 Device, Gang Box Mud Ring.....	23.66	6.49
26 05 33 16-0096	EA	5 Device, Gang Box Mud Ring.....	28.51	6.49
26 05 33 16-0097	EA	6 Device, Gang Box Mud Ring.....	39.14	6.49
26 05 33 16-0098	EA	2 Device, Gang Box Flat Cover	18.17	6.49
26 05 33 16-0099	EA	3 Device, Gang Box Flat Cover	20.81	6.49
26 05 33 16-0100	EA	4 Device, Gang Box Flat Cover	24.32	6.49
26 05 33 16-0101	EA	5 Device, Gang Box Flat Cover	28.78	6.49
26 05 33 16-0102	EA	6 Device, Gang Box Flat Cover	39.90	6.49
26 05 33 16-0103	Steel Switch Boxes (26 05 33 16-0001)			
26 05 33 16-0104	EA	2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	36.23	16.22
26 05 33 16-0105	EA	2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	36.64	16.22
26 05 33 16-0106	EA	3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	38.75	16.22
26 05 33 16-0107	EA	2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	43.50	16.22
26 05 33 16-0108	EA	2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	43.91	16.22
26 05 33 16-0109	EA	2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	50.34	16.22
26 05 33 16-0110	4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)			
26 05 33 16-0111	EA	1-1/2" Deep, 4" x 2" Steel Handy Box	34.30	16.22
		<i>For Stud Bracket, Add</i>	2.29	
26 05 33 16-0112	EA	1-7/8" Deep, 4" x 2" Steel Handy Box	34.74	16.22
		<i>For Stud Bracket, Add</i>	0.99	
26 05 33 16-0113	EA	2-1/8" Deep, 4" x 2" Steel Handy Box	35.71	16.22
		<i>For Stud Bracket, Add</i>	1.34	
26 05 33 16-0114	EA	1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring	22.13	9.73
26 05 33 16-0115	EA	1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring	21.69	9.73
26 05 33 16-0116	EA	GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	7.45	3.24
26 05 33 16-0117	EA	1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.53	3.24
26 05 33 16-0118	EA	Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.12	3.24
26 05 33 16-0119	EA	Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover	7.15	3.24
26 05 33 16-0120	EA	1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	7.98	3.24
26 05 33 16-0121	EA	Flat, 2" x 4" Steel Handy Box Exposed Work Cover	7.15	3.24
26 05 33 16-0122	3-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)			
26 05 33 16-0123	EA	1 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	50.58	22.71
26 05 33 16-0124	EA	2 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	55.78	24.01
26 05 33 16-0125	EA	3 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	63.06	25.96
26 05 33 16-0126	EA	4 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box	71.26	28.56
26 05 33 16-0127	Cast Boxes (26 05 33 16)			
	Note: For flush or surface mount.			
26 05 33 16-0128	Cast Iron Alloy Boxes (26 05 33 16-0127)			
	See CSI section 26 27 26 00-0265 for box covers.			



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	16-0129	Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33	16-0130	EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box..... Note: One hub.	113.96	38.94
26 05 33	16-0131	EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box..... Note: One hub.	122.22	45.43
26 05 33	16-0132	EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box..... Note: One hub.	143.66	55.16
26 05 33	16-0133	EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hub.	141.92	51.92
26 05 33	16-0134	EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hub.	182.16	61.65
26 05 33	16-0135	EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hub.	141.30	51.92
26 05 33	16-0136	EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	170.05	61.65
26 05 33	16-0137	EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	145.20	51.92
26 05 33	16-0138	EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	170.10	61.65
26 05 33	16-0139	EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	141.30	51.92
26 05 33	16-0140	EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	165.29	61.65
26 05 33	16-0141	EA 1/2" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	167.90	64.89
26 05 33	16-0142	EA 3/4" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	198.54	77.87
26 05 33	16-0143	EA 1/2" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	175.37	64.89
26 05 33	16-0144	EA 3/4" Depth, Type FSFA, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	227.04	77.87
26 05 33	16-0145	EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	180.25	64.89
26 05 33	16-0146	EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	215.32	77.87
26 05 33	16-0147	EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	167.26	64.89
26 05 33	16-0148	EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	218.62	77.87
26 05 33	16-0149	EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	213.97	77.87
26 05 33	16-0150	EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box..... Note: Four hubs.	258.11	94.10
26 05 33	16-0151	Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33	16-0152	EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	119.46	38.94
26 05 33	16-0153	EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	137.49	45.43
26 05 33	16-0154	EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box..... Note: One hub.	161.28	55.16
26 05 33	16-0155	EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	151.98	51.92
26 05 33	16-0156	EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	175.22	61.65
26 05 33	16-0157	EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	210.53	74.63
26 05 33	16-0158	EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box..... Note: Two hubs.	188.94	61.65
26 05 33	16-0159	EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box..... Note: Three hubs.	243.29	77.87
26 05 33	16-0160	Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: Up to 2" deep boxes.		
26 05 33	16-0161	EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	137.76	42.18
26 05 33	16-0162	EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	152.36	48.67
26 05 33	16-0163	EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	176.73	58.40
26 05 33	16-0164	EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	166.36	55.16
26 05 33	16-0165	EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	188.65	64.89
26 05 33	16-0166	Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0167	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box.....	154.28	42.18	
		Note: One hub.			
26 05 33 16-0168	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box.....	167.90	48.67	
		Note: One hub.			
26 05 33 16-0169	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box.....	191.23	55.16	
		Note: Two hubs.			
26 05 33 16-0170	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box.....	214.92	64.89	
		Note: Two hubs.			
26 05 33 16-0171		Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0265 for box covers.			
26 05 33 16-0172		Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.			
26 05 33 16-0173	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....	100.98	32.45	
		Note: One hub.			
26 05 33 16-0174	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....	115.40	38.94	
		Note: One hub.			
26 05 33 16-0175	EA	1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box.....	127.51	48.67	
		Note: One hub.			
26 05 33 16-0176	EA	1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box.....	94.57	32.45	
		Note: One hub.			
26 05 33 16-0177	EA	3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box.....	119.92	38.94	
		Note: One hub.			
26 05 33 16-0178	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....	127.56	45.43	
		Note: Two hubs.			
26 05 33 16-0179	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....	153.17	55.16	
		Note: Two hubs.			
26 05 33 16-0180	EA	1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box.....	192.36	68.14	
		Note: Two hubs.			
26 05 33 16-0181	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box.....	138.71	45.43	
		Note: Two hubs.			
26 05 33 16-0182	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box.....	147.74	55.16	
		Note: Two hubs.			
26 05 33 16-0183	EA	1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box.....	132.37	45.43	
		Note: Two hubs.			
26 05 33 16-0184	EA	3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box.....	151.53	55.16	
		Note: Two hubs.			
26 05 33 16-0185	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box.....	128.27	45.43	
		Note: Two hubs.			
26 05 33 16-0186	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box.....	151.53	55.16	
		Note: Two hubs.			
26 05 33 16-0187	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box.....	118.81	45.43	
		Note: Two hubs.			
26 05 33 16-0188	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box.....	161.59	55.16	
		Note: Two hubs.			
26 05 33 16-0189	EA	1/2" Depth, Type FSFA, Shallow, Single Gang Cast Aluminum Box.....	151.30	58.40	
		Note: Three hubs.			
26 05 33 16-0190	EA	3/4" Depth, Type FSFA, Shallow, Single Gang Cast Aluminum Box.....	183.78	71.38	
		Note: Three hubs.			
26 05 33 16-0191	EA	1/2" Depth, Type FSFC, Shallow, Single Gang Cast Aluminum Box.....	161.10	58.40	
		Note: Three hubs.			
26 05 33 16-0192	EA	3/4" Depth, Type FSFC, Shallow, Single Gang Cast Aluminum Box.....	217.74	71.38	
		Note: Three hubs.			
26 05 33 16-0193	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	160.28	58.40	
		Note: Three hubs.			
26 05 33 16-0194	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box.....	196.70	71.38	
		Note: Three hubs.			
26 05 33 16-0195	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box.....	199.61	71.38	
		Note: Three hubs.			
26 05 33 16-0196	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box.....	195.42	71.38	
		Note: Four hubs.			
26 05 33 16-0197	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box.....	238.46	87.61	
		Note: Four hubs.			
26 05 33 16-0198		Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.			
26 05 33 16-0199	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....	112.35	32.45	
		Note: One hub.			
26 05 33 16-0200	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....	134.58	38.94	
		Note: One hub.			
26 05 33 16-0201	EA	1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box.....	153.89	48.67	
		Note: One hub.			
26 05 33 16-0202	EA	3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box.....	144.97	38.94	
		Note: One hub.			
26 05 33 16-0203	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....	142.26	45.43	
		Note: Two hubs.			
26 05 33 16-0204	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....	171.22	55.16	
		Note: Two hubs.			
26 05 33 16-0205	EA	1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box.....	190.66	68.14	
		Note: Two hubs.			
26 05 33 16-0206	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box.....	173.63	55.16	
		Note: Two hubs.			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box Note: Three hubs.	211.85	71.38
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	134.76	35.69
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	154.15	42.18
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	164.66	51.92
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	167.90	48.67
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	170.08	58.40
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box Note: Two hubs.	210.19	71.38
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	134.63	35.69
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box Note: One hub.	155.70	42.18
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	171.45	48.67
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	193.85	58.40
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	171.45	48.67
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	193.85	58.40
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	179.84	51.92
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box Note: Two hubs.	201.33	61.65
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	206.86	45.43
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	229.98	55.16
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127) Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body 26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body 26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body 26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body 26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA	213.39 265.34 241.07 236.36 289.09	51.92 58.40 64.89 58.40 64.89
26 05 33 16-0234 Non-Metallic (PVC) Boxes (26 05 33 16) See CSI section 26 27 26 00-0265 for box covers.		
26 05 33 16-0235 Shallow, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	67.01	27.25
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	76.49	31.80
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box Note: One hub.	86.84	38.61
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	85.58	36.34
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	100.48	43.15
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	121.88	52.24
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	85.91	36.34
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	99.60	43.15
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	118.87	52.24

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0245	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	108.54	45.43	
26 05 33 16-0246	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	123.22	54.51	
26 05 33 16-0247	EA	1" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box Note: Three hubs.	144.89	65.86	
26 05 33 16-0248 Deep, Single Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)					
26 05 33 16-0249	EA	No Hub, Type FD, Deep, Single Gang Non-Metallic (PVC) Box Note: No hubs.	67.98	27.25	
26 05 33 16-0250	EA	1/2" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	66.28	27.25	
26 05 33 16-0251	EA	3/4" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	78.81	31.80	
26 05 33 16-0252	EA	1" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box Note: One hub.	87.78	38.61	
26 05 33 16-0253	EA	1/2" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	87.49	36.34	
26 05 33 16-0254	EA	3/4" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	97.97	43.15	
26 05 33 16-0255	EA	1" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box Note: Two hubs.	117.00	52.24	
26 05 33 16-0256 Shallow, Two Gang Non-Metallic (PVC) Boxes (26 05 33 16-0234)					
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	72.06	29.53	
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	82.51	34.07	
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box Note: One hub.	91.54	40.89	
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	88.00	38.61	
26 05 33 16-0261	EA	3/4" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	109.18	45.43	
26 05 33 16-0262	EA	1" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	129.07	54.51	
26 05 33 16-0263	EA	1/2" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	90.26	38.61	
26 05 33 16-0264	EA	3/4" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	115.45	45.43	
26 05 33 16-0265	EA	1" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box Note: Two hubs.	124.04	54.51	
26 05 33 16-0266	EA	1/2" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	110.27	47.70	
26 05 33 16-0267	EA	3/4" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	146.06	56.79	
26 05 33 16-0268	EA	1" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box Note: Three hubs.	149.28	68.14	
26 05 33 16-0269 Poke Thru Units (26 05 33 16)					
26 05 33 16-0270 Surface Poke Thru Units (26 05 33 16-0269)					
Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.					
26 05 33 16-0271	EA	Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	533.42	48.67	
26 05 33 16-0272	EA	Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black non-metallic cover. Wiremold RC3KTCAL.	340.96		
26 05 33 16-0273	EA	20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC37REC.	48.80	12.98	
26 05 33 16-0274	EA	Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC3APTCBK.	57.38	6.49	
26 05 33 16-0275	EA	Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	602.76	51.92	
26 05 33 16-0276	EA	Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	319.61		
26 05 33 16-0277	EA	Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4REC2.	83.17	19.47	
26 05 33 16-0278	EA	Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold RC4APTCBK.	57.38	6.49	
26 05 33 16-0279	EA	Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit Note: Wiremold ABPLUG4.	166.19	12.98	
26 05 33 16-0280	EA	Four Jack RC9AMD Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	477.71	45.43	



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0281	EA	Abandonment Plate For RC9 Series Communications Poke Thru Unit	40.22		6.49
Note: Wiremold RC9APTCBK.					
26 05 33 16-0282	EA	Eight Jack AMD8 Communications Poke Thru Unit.....	475.54		45.43
Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.					
26 05 33 16-0283	EA	Communication Conduit Adapter For Poke Thru Units	55.50		6.49
Note: Includes two conduit connections for communication systems. Wiremold COM75.					
26 05 33 16-0284		Recessed Poke Thru Units (26 05 33 16-0269)			
Note: Excludes concrete drilling.					
26 05 33 16-0285		Evolution 6AT Poke Thru Units (26 05 33 16-0284)			
Note: Excludes concrete drilling.					
26 05 33 16-0286	EA	Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP)	846.68		51.92
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.					
26 05 33 16-0287	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP)	846.78		51.92
Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.					
26 05 33 16-0288	EA	Recessed Assembly With Surface Style Cover (Wiremold 6ATC).....	807.50		51.92
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.					
26 05 33 16-0289	EA	Recessed Assembly With Flush Style Cover (Wiremold 6AT).....	807.50		51.92
Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.					
26 05 33 16-0290	EA	Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA).....	846.68		51.92
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.					
26 05 33 16-0291	EA	Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA).....	846.68		51.92
Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.					
26 05 33 16-0292	EA	Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF).....	774.33		51.92
Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2" to 1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.					
26 05 33 16-0293	EA	Recessed Assembly With Disposable Plate (Wiremold 6STC).....	488.89		48.67
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.					
26 05 33 16-0294	EA	Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV)	523.55		48.67
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.					
26 05 33 16-0295	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP)	526.98		48.67
Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.					
26 05 33 16-0296	EA	6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS).....	151.96		25.96
Note: Non-metallic sleeve attaches to structural decking and maintains 6" to 6-1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.					
26 05 33 16-0297	EA	Surface Style Cover Assembly (Wiremold 6CTC).....	339.57		12.98
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.					
26 05 33 16-0298	EA	Flush Style Cover Assembly (Wiremold 6CT).....	339.57		12.98
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.					
26 05 33 16-0299	EA	Furniture Feed Cover Assembly (Wiremold 6CFFTC)	282.74		12.98
Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2" to 1-1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.					
26 05 33 16-0300	EA	Tile Shim (Wiremold 6TS).....	41.19		3.24
Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.					
26 05 33 16-0301	EA	Device Mounting Plate (Wiremold 6AAP)	21.22		6.49
Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.					
26 05 33 16-0302	EA	Device Mounting Plate (Wiremold 6ACT8A)	24.30		6.49
Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.					
26 05 33 16-0303	EA	Device Mounting Plate (Wiremold 6B)	21.13		6.49
Note: Device plate used to blank off center compartment, when no devices are used.					

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC).....	21.19	6.49
Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP).....	21.06	6.49
Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP).....	24.63	6.49
Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A).....	24.38	6.49
Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS).....	24.94	6.49
Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.		
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1).....	20.76	6.49
Note: Receptacle opening 1 3/8". For 6" poke-thru units only.		
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2).....	20.78	6.49
Note: Receptacle opening 1 9/16". For 6" poke-thru units only.		
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER).....	20.51	6.49
Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	20.51	6.49
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC).....	48.17	9.73
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B).....	18.89	6.49
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP).....	19.33	6.49
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25).....	147.52	11.68
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A).....	24.10	6.49
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA).....	25.05	6.49
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH).....	25.73	6.49
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA).....	40.16	12.98
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA).....	46.29	16.22
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA).....	50.70	16.22
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA).....	38.67	12.98
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA).....	24.89	6.49
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH).....	24.89	6.49
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA).....	26.16	6.49
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....	27.01	6.49
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284)		
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP).....	1,107.33	51.92
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP).....	1,054.45	51.92
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P).....	1,119.30	51.92
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		



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MINOR			DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM	UNIT COST		UNIT COST	
26 05 33	16-0332	EA	Recessed Assembly With Surface Style Cover (Wiremold 8ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,044.50	51.92
26 05 33	16-0333	EA	Recessed Assembly With Flush Style Cover (Wiremold 8AT)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,035.07	51.92
26 05 33	16-0334	EA	Recessed Assembly With Disposable Plate (Wiremold 8STC)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	628.80	48.67
26 05 33	16-0335	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	703.30	48.67
26 05 33	16-0336	EA	8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS)..... Note: Non-metallic sleeve attaches to structural decking and maintains 8" to 8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	181.03	25.96
26 05 33	16-0337	EA	Surface Style Cover Assembly (Wiremold 8CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	367.00	12.98
26 05 33	16-0338	EA	Flush Style Cover Assembly (Wiremold 8CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	367.00	12.98
26 05 33	16-0339	EA	Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	63.81	3.24
26 05 33	16-0340	EA	Device Mounting Plate (Wiremold 8B)..... Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	21.88	6.49
26 05 33	16-0341	EA	Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	22.00	6.49
26 05 33	16-0342	EA	Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCIs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	22.13	6.49
26 05 33	16-0343	EA	Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	25.44	6.49
26 05 33	16-0344	EA	Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	30.52	6.49
26 05 33	16-0345	EA	Crestron Double Gang Plate (Wiremold 8CREST)..... Note: Device plate accepts Crestron double-gang decorator style devices.	30.48	6.49
26 05 33	16-0346	EA	Device Mounting Plate (Wiremold 8S1)..... Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	21.26	6.49
26 05 33	16-0347	EA	Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	21.52	6.49
26 05 33	16-0348	EA	Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	21.26	6.49
26 05 33	16-0349	EA	Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	21.26	6.49
26 05 33	16-0350	EA	Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	30.07	6.49
26 05 33	16-0351	EA	Device Mounting Plate (Wiremold 8AAP)..... Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	25.29	6.49
26 05 33	16-0352	EA	8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	28.95	6.49
26 05 33	16-0353	EA	Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	40.16	12.98

26 05 43 Underground Ducts and Raceways for Electrical Systems (26 05)

Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trenched ductbank.

26 05 43 00-0001	Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)	
	Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.	
26 05 43 00-0002	10" Wide Pedestrian Trench (26 05 43 00-0001)	
26 05 43 00-0003	LF	Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench
26 05 43 00-0004	LF	Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench
26 05 43 00-0005	LF	Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench
26 05 43 00-0006	LF	Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench
26 05 43 00-0007	EA	End Wall, 10" Wide x 15" Deep Pedestrian Trench
26 05 43 00-0008	EA	End Wall, 10" Wide x 24" Deep Pedestrian Trench
26 05 43 00-0009	LF	Lid, Concrete, 10" Wide Pedestrian Trench

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0010			20" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0011	LF		Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	116.95	
26 05 43 00-0012	LF		Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	109.82	
26 05 43 00-0013	LF		Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	158.44	
26 05 43 00-0014	LF		Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	151.94	
26 05 43 00-0015	EA		End Wall, 20" Wide x 15" Deep Pedestrian Trench	78.06	
26 05 43 00-0016	EA		End Wall, 20" Wide x 24" Deep Pedestrian Trench	113.75	
26 05 43 00-0017	LF		Lid, Concrete, 20" Wide Pedestrian Trench	76.92	
26 05 43 00-0018			30" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0019	LF		Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	149.34	
26 05 43 00-0020	LF		Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	175.46	
26 05 43 00-0021	LF		Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	186.85	
26 05 43 00-0022	LF		Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	179.46	
26 05 43 00-0023	EA		End Wall, 30" Wide x 15" Deep Pedestrian Trench	112.02	
26 05 43 00-0024	EA		End Wall, 30" Wide x 24" Deep Pedestrian Trench	151.97	
26 05 43 00-0025	LF		Lid, Concrete, 30" Wide Pedestrian Trench	96.03	
26 05 43 00-0026			40" Wide Pedestrian Trench (26 05 43 00-0001)		
26 05 43 00-0027	LF		Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	178.90	
26 05 43 00-0028	LF		Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	172.17	
26 05 43 00-0029	LF		Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	218.92	
26 05 43 00-0030	LF		Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	210.69	
26 05 43 00-0031	EA		End Wall, 40" Wide x 15" Deep Pedestrian Trench	143.38	
26 05 43 00-0032	EA		End Wall, 40" Wide x 24" Deep Pedestrian Trench	194.29	
26 05 43 00-0033	LF		Lid, Concrete, 40" Wide Pedestrian Trench	113.50	
26 05 43 00-0034			Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43)		
Note: Rated for 7,000 Lb Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.					
26 05 43 00-0035			10" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0036	LF		Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench	112.06	
26 05 43 00-0037	LF		Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench	106.83	
26 05 43 00-0038	LF		Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench	155.61	
26 05 43 00-0039	LF		Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench	148.37	
26 05 43 00-0040	EA		End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	73.41	
26 05 43 00-0041	EA		End Wall, 10" Wide x 24" Deep Medium Vehicle Trench	85.46	
26 05 43 00-0042	LF		Lid, Concrete 10" Wide Medium Vehicle Trench	74.70	
26 05 43 00-0043	LF		Lid, Galvanized Steel 10" Wide Medium Vehicle Trench	332.45	
26 05 43 00-0044			20" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0045	LF		Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench	141.11	
26 05 43 00-0046	LF		Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench	131.91	
26 05 43 00-0047	LF		Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench	190.29	
26 05 43 00-0048	LF		Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench	181.89	
26 05 43 00-0049	EA		End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	90.79	
26 05 43 00-0050	EA		End Wall, 20" Wide x 24" Deep Medium Vehicle Trench	132.48	
26 05 43 00-0051	LF		Lid, Concrete 20" Wide Medium Vehicle Trench	93.41	
26 05 43 00-0052	LF		Lid, Galvanized Steel 20" Wide Medium Vehicle Trench	440.88	
26 05 43 00-0053			30" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0054	LF		Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench	142.00	
26 05 43 00-0055	LF		Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench	170.37	
26 05 43 00-0056	LF		Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench	223.11	
26 05 43 00-0057	LF		Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench	213.55	
26 05 43 00-0058	EA		End Wall, 30" Wide x 15" Deep Medium Vehicle Trench	129.58	
26 05 43 00-0059	EA		End Wall, 30" Wide x 24" Deep Medium Vehicle Trench	177.96	
26 05 43 00-0060	LF		Lid, Concrete 30" Wide Medium Vehicle Trench	116.93	
26 05 43 00-0061	LF		Lid, Galvanized Steel 30" Wide Medium Vehicle Trench	550.39	
26 05 43 00-0062			40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0063	LF		Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench	211.85	
26 05 43 00-0064	LF		Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench	203.16	
26 05 43 00-0065	LF		Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench	259.34	
26 05 43 00-0066	LF		Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench	248.68	
26 05 43 00-0067	EA		End Wall, 40" Wide x 15" Deep Medium Vehicle Trench	165.87	
26 05 43 00-0068	EA		End Wall, 40" Wide x 24" Deep Medium Vehicle Trench	227.48	
26 05 43 00-0069	LF		Lid, Concrete 40" Wide Medium Vehicle Trench	137.66	
26 05 43 00-0070	LF		Lid, Galvanized Steel 40" Wide Medium Vehicle Trench	748.29	
26 05 43 00-0071			Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

Note: H20 Rated for 32,000 Lb Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0072	10" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0073 LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	242.55
26 05 43 00-0074 LF	Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	230.83
26 05 43 00-0075 LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	302.99
26 05 43 00-0076 LF	Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	288.20
26 05 43 00-0077 LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	232.89
26 05 43 00-0078 LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	221.73
26 05 43 00-0079 LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	293.33
26 05 43 00-0080 LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	279.13
26 05 43 00-0081 EA	End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench	160.38
26 05 43 00-0082 EA	End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench	217.09
26 05 43 00-0083 EA	End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench	145.05
26 05 43 00-0084 EA	End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench	201.42
26 05 43 00-0085 LF	Lid, Concrete 10" Wide Road Crossing Trench	111.92
26 05 43 00-0086 LF	Lid, Galvanized Steel 10" Wide Road Crossing Trench	360.77
26 05 43 00-0087	20" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0088 LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	257.11
26 05 43 00-0089 LF	Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	245.08
26 05 43 00-0090 LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	340.11
26 05 43 00-0091 LF	Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	324.02
26 05 43 00-0092 LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	257.11
26 05 43 00-0093 LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	245.08
26 05 43 00-0094 LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	330.45
26 05 43 00-0095 LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	314.95
26 05 43 00-0096 EA	End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench	229.08
26 05 43 00-0097 EA	End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench	311.75
26 05 43 00-0098 EA	End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench	206.76
26 05 43 00-0099 EA	End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench	289.43
26 05 43 00-0100 LF	Lid, Concrete 20" Wide Road Crossing Trench	124.80
26 05 43 00-0101 LF	Lid, Galvanized Steel 20" Wide Road Crossing Trench	535.18
26 05 43 00-0102	30" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0103 LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	303.56
26 05 43 00-0104 LF	Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	289.79
26 05 43 00-0105 LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	375.33
26 05 43 00-0106 LF	Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	358.23
26 05 43 00-0107 LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	293.89
26 05 43 00-0108 LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	280.70
26 05 43 00-0109 LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	365.66
26 05 43 00-0110 LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	348.84
26 05 43 00-0111 EA	End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench	305.52
26 05 43 00-0112 EA	End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench	404.55
26 05 43 00-0113 EA	End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench	276.20
26 05 43 00-0114 EA	End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench	375.23
26 05 43 00-0115 LF	Lid, Concrete 30" Wide Road Crossing Trench	157.98
26 05 43 00-0116 LF	Lid, Galvanized Steel 30" Wide Road Crossing Trench	671.11
26 05 43 00-0117	40" Wide H20 Road Crossing Trench (26 05 43 00-0071)	
26 05 43 00-0118 LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	335.08
26 05 43 00-0119 LF	Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	320.29
26 05 43 00-0120 LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	412.53
26 05 43 00-0121 LF	Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	393.96
26 05 43 00-0122 LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	325.42
26 05 43 00-0123 LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	311.22
26 05 43 00-0124 LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	402.86
26 05 43 00-0125 LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	384.87
26 05 43 00-0126 EA	End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench	379.13
26 05 43 00-0127 EA	End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	501.73
26 05 43 00-0128 EA	End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench	343.15
26 05 43 00-0129 EA	End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench	465.74
26 05 43 00-0130 LF	Lid, Concrete 40" Wide Road Crossing Trench	190.81
26 05 43 00-0131 LF	Lid, Galvanized Steel 40" Wide Road Crossing Trench	912.57

26 05 46 Utility Poles for Electrical Systems (26 05)

26 05 46 00-0001	Wood Poles (26 05 46)		
26 05 46 00-0002	Wood Pole, Class 3, Penta-Treated To 8 Lb. Retention (26 05 46 00-0001)		
Note: Machine dig and set.			
26 05 46 00-0003	EA 25' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,044.80	338.11
	For Class 1 Pole, Add	128.95	
	For Class 2 Pole, Add	73.69	
	For Class 4 Pole, Deduct	-36.84	
	For Class 5 Pole, Deduct	-110.53	
	For Class 6 Pole, Deduct	-147.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0004	EA		30' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,250.57	375.15
			For Class 1 Pole, Add	175.08	
			For Class 2 Pole, Add	100.05	
			For Class 4 Pole, Deduct	-50.02	
			For Class 5 Pole, Deduct	-150.07	
			For Class 6 Pole, Deduct	-200.09	
26 05 46 00-0005	EA		35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,621.22	496.16
			For Class 1 Pole, Add	220.16	
			For Class 2 Pole, Add	125.81	
			For Class 4 Pole, Deduct	-62.90	
			For Class 5 Pole, Deduct	-188.71	
			For Class 6 Pole, Deduct	-251.62	
26 05 46 00-0006	EA		40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,855.23	545.72
			For Class 1 Pole, Add	267.34	
			For Class 2 Pole, Add	152.77	
			For Class 4 Pole, Deduct	-76.38	
			For Class 5 Pole, Deduct	-229.15	
			For Class 6 Pole, Deduct	-305.53	
26 05 46 00-0007	EA		45' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,120.34	607.81
			For Class 1 Pole, Add	316.61	
			For Class 2 Pole, Add	180.92	
			For Class 4 Pole, Deduct	-90.46	
			For Class 5 Pole, Deduct	-271.38	
			For Class 6 Pole, Deduct	-361.84	
26 05 46 00-0008	EA		50' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,412.64	682.14
			For Class 1 Pole, Add	366.94	
			For Class 2 Pole, Add	209.68	
			For Class 4 Pole, Deduct	-104.84	
			For Class 5 Pole, Deduct	-314.52	
			For Class 6 Pole, Deduct	-419.36	
26 05 46 00-0009	EA		55' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,698.83	750.29
			For Class 1 Pole, Add	419.36	
			For Class 2 Pole, Add	239.63	
			For Class 4 Pole, Deduct	-119.82	
			For Class 5 Pole, Deduct	-359.45	
			For Class 6 Pole, Deduct	-479.26	
26 05 46 00-0010	EA		60' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,016.13	825.06
			For Class 1 Pole, Add	478.07	
			For Class 2 Pole, Add	273.18	
			For Class 4 Pole, Deduct	-136.59	
			For Class 5 Pole, Deduct	-409.77	
			For Class 6 Pole, Deduct	-546.36	
26 05 46 00-0011	EA		65' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,945.85	899.25
			For Class 1 Pole, Add	1,101.55	
			For Class 2 Pole, Add	629.46	
			For Class 4 Pole, Deduct	-314.73	
			For Class 5 Pole, Deduct	-944.19	
			For Class 6 Pole, Deduct	-1,258.92	
26 05 46 00-0012	EA		70' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,431.76	956.58
			For Class 1 Pole, Add	1,231.49	
			For Class 2 Pole, Add	703.71	
			For Class 4 Pole, Deduct	-351.86	
			For Class 5 Pole, Deduct	-1,055.57	
			For Class 6 Pole, Deduct	-1,407.42	
26 05 46 00-0013	EA		75' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,971.25	1,021.71
			For Class 1 Pole, Add	1,374.72	
			For Class 2 Pole, Add	785.56	
			For Class 4 Pole, Deduct	-392.78	
			For Class 5 Pole, Deduct	-1,178.33	
			For Class 6 Pole, Deduct	-1,571.11	
26 05 46 00-0014			Removal And Relocation Of Wood Poles With Cross Arm (26 05 46 00-0001)		
26 05 46 00-0015	LF		Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....	28.82	
26 05 46 00-0016			Crossarms (26 05 46) Note: Includes hardware and braces.		
26 05 46 00-0017			Wood Single Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0018	EA		3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	246.12	100.84
26 05 46 00-0019	EA		3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	297.59	100.84
26 05 46 00-0020	EA		3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	312.47	129.66
26 05 46 00-0021			Wood Double Arm Crossarms (26 05 46 00-0016)		
26 05 46 00-0022	EA		3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	634.14	280.92
26 05 46 00-0023	EA		3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	675.14	280.92
26 05 46 00-0024	EA		3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	702.90	280.92
26 05 46 00-0025			Fiberglass Crossarms (26 05 46 00-0016) Note: Includes hardware.		
26 05 46 00-0026			Single Phase, 15 Degree Angle (26 05 46 00-0025)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 Lb.....	285.54	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 Lb.....	359.67	60.50
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 Lb.	374.08	64.82
26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 Lb.....	447.95	77.79
26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 Lb. Per Conductor.....	701.38	99.40
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 Lb. Per Conductor.....	831.33	121.02
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	121.97	17.29
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket	609.90	86.44
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm	481.18	144.07
26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)		
26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	144.51	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting.....	118.00	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting	340.99	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting	230.79	
26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038)		
Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting	102.82	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting	90.21	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting	313.20	
26 05 46 00-0048 Guying (26 05 46)		
Note: Includes cable, anchor and rod assembly, guy marker.		
26 05 46 00-0049 Down Guy (26 05 46 00-0048)		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole	1,003.62	403.38
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole	1,022.26	403.38
26 05 46 00-0052 EA Down Guy For 65' To 75' Pole	1,060.61	403.38
26 05 46 00-0053 EA Guy Guard, Plastic.....	41.86	
26 05 46 00-0054 Head Guy, 50' Spans (26 05 46 00-0048)		
26 05 46 00-0055 EA Head Guy (50' Span), For 25' To 40' Pole	1,443.38	619.47
26 05 46 00-0056 EA Head Guy (50' Span), For 45' To 60' Pole	1,443.38	619.47
26 05 46 00-0057 EA Head Guy (50' Span), For 65' To 75' Pole	1,443.38	619.47
26 05 46 00-0058 Guy Strain Insulators Additional Insulators (26 05 46 00-0048)		
Note: As required at same material cost and labor.		
26 05 46 00-0059 EA Guy Strain Insulator	612.01	302.53
26 05 46 00-0060 Insulators (26 05 46)		
26 05 46 00-0061 Pin Insulator With Pin (26 05 46 00-0060)		
26 05 46 00-0062 EA 5 KV Class 55-3, Pin Insulator With Pin.....	193.14	86.44
26 05 46 00-0063 EA 15 KV Class 55-5, Pin Insulator With Pin.....	198.58	86.44
26 05 46 00-0064 Suspension Insulator (26 05 46 00-0060)		
Note: Includes clevis and strain clamp.		
26 05 46 00-0065 EA 5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	245.05	115.25
26 05 46 00-0066 EA 15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	259.85	115.25
26 05 46 00-0067 EA 25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	364.16	144.07
26 05 46 00-0068 EA 50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	576.30	230.50
26 05 46 00-0069 Spool Insulator With Clevis (26 05 46 00-0060)		
26 05 46 00-0070 EA 5 KV Class 53-5, Spool Insulator With Clevis	81.58	36.02
26 05 46 00-0071 EA 15 KV Class, Spool Insulator With Clevis	261.45	129.66
26 05 46 00-0072 EA 25 KV Class, Spool Insulator With Clevis	339.10	129.66
26 05 46 00-0073 Secondary Rack (26 05 46 00-0060)		
26 05 46 00-0074 EA 1 Spool Secondary Rack	162.11	72.03
26 05 46 00-0075 EA 2 Spool Secondary Rack	166.89	91.91
26 05 46 00-0076 EA 3 Spool Secondary Rack	249.92	122.46
26 05 46 00-0077 EA 4 Spool Secondary Rack	280.92	122.46

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 05 46 00-0078		Outdoor Load Break Switches (26 05 46)			
Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.					
26 05 46 00-0079		7.2 KV Outdoor Load Break Switches (26 05 46 00-0078)			
26 05 46 00-0080	EA	600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	5,174.65		489.82
26 05 46 00-0081	EA	1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	10,162.50		489.82
26 05 46 00-0082	EA	1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,138.49		828.38
26 05 46 00-0083	EA	2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,436.38		828.38
26 05 46 00-0084		14.4 KV Outdoor Load Break Switches (26 05 46 00-0078)			
26 05 46 00-0085	EA	600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	6,329.14		489.82
26 05 46 00-0086	EA	1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	12,015.32		489.82
26 05 46 00-0087	EA	1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,138.49		828.38
26 05 46 00-0088	EA	2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,436.38		828.38
26 05 46 00-0089		23 KV Outdoor Load Break Switches (26 05 46 00-0078)			
26 05 46 00-0090	EA	600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	6,977.31		569.06
26 05 46 00-0091	EA	1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	13,146.08		569.06
26 05 46 00-0092	EA	1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	15,811.50		979.64
26 05 46 00-0093	EA	2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator	16,119.15		979.64
26 05 46 00-0094		Square Distribution Poles (26 05 46)			
26 05 46 00-0095		Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0094)			
26 05 46 00-0096	EA	20', Steel Taped Shaft Distribution Pole	3,843.00		612.28
26 05 46 00-0097	EA	25', Steel Taped Shaft Distribution Pole	4,297.03		648.29
26 05 46 00-0098	EA	30', Steel Taped Shaft Distribution Pole	4,660.88		720.33
26 05 46 00-0099	EA	35', Steel Taped Shaft Distribution Pole	5,157.91		792.36
26 05 46 00-0100	EA	40', Steel Taped Shaft Distribution Pole	7,011.14		864.39
26 05 46 00-0101		Square Prestressed Concrete Distribution Poles (26 05 46 00-0094)			
26 05 46 00-0102	EA	30', Prestressed Concrete Square Pole For Distribution.....	5,447.69		1,088.97
26 05 46 00-0103	EA	35', Prestressed Concrete Square Pole For Distribution.....	6,155.47		1,194.35
26 05 46 00-0104	EA	40', Prestressed Concrete Square Pole For Distribution.....	7,224.11		1,334.87
26 05 46 00-0105	EA	45', Prestressed Concrete Square Pole For Distribution.....	8,140.38		1,475.38
26 05 46 00-0106	EA	50', Prestressed Concrete Square Pole For Distribution.....	6,311.40		1,791.53
26 05 46 00-0107	EA	55', Prestressed Concrete Square Pole For Distribution.....	11,481.62		2,107.69
26 05 46 00-0108	EA	60', Prestressed Concrete Square Pole For Distribution.....	13,548.17		2,388.71
26 05 46 00-0109	EA	65', Prestressed Concrete Square Pole For Distribution.....	16,352.40		2,950.77
26 05 46 00-0110	EA	70', Prestressed Concrete Square Pole For Distribution.....	18,317.62		3,231.79
26 05 46 00-0111		Aluminum Tapered Poles (26 05 46)			
26 05 46 00-0112		Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0111)			
26 05 46 00-0113	EA	20', Aluminum Tapered Round Seamless Shaft Pole For Distribution	3,808.74		540.24
26 05 46 00-0114	EA	25', Aluminum Tapered Round Seamless Shaft Pole For Distribution	5,344.17		576.26
26 05 46 00-0115	EA	30', Aluminum Tapered Round Seamless Shaft Pole For Distribution	6,148.71		648.29
26 05 46 00-0116	EA	35', Aluminum Tapered Round Seamless Shaft Pole For Distribution	7,303.53		720.33
26 05 46 00-0117	EA	40', Aluminum Tapered Round Seamless Shaft Pole For Distribution	11,114.18		792.36
26 05 46 00-0118		Steel Service Poles Distribution (26 05 46)			
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.					
26 05 46 00-0119		Round Tapered Pole (26 05 46 00-0118)			
26 05 46 00-0120	EA	40', Galvanized Steel Tapered Round Pole For Distribution	5,296.71		864.39
26 05 46 00-0121	EA	45', Galvanized Steel Tapered Round Pole For Distribution	6,161.01		936.42
26 05 46 00-0122	EA	50', Galvanized Steel Tapered Round Pole For Distribution	6,563.36		1,008.45
26 05 46 00-0123	EA	55', Galvanized Steel Tapered Round Pole For Distribution	7,732.21		1,152.52
26 05 46 00-0124	EA	60', Galvanized Steel Tapered Round Pole For Distribution	9,573.55		1,296.58
26 05 46 00-0125	EA	65', Galvanized Steel Tapered Round Pole For Distribution	11,308.89		1,651.02
26 05 46 00-0126	EA	70', Galvanized Steel Tapered Round Pole For Distribution	12,585.55		1,873.03
26 05 46 00-0127	EA	75', Galvanized Steel Tapered Round Pole For Distribution	13,908.78		2,107.69
26 05 46 00-0128	EA	80', Galvanized Steel Tapered Round Pole For Distribution	15,602.75		2,388.71
26 05 46 00-0129	EA	85', Galvanized Steel Tapered Round Pole For Distribution	16,674.85		2,529.22
26 05 46 00-0130	EA	90', Galvanized Steel Tapered Round Pole For Distribution	18,087.45		2,810.25
26 05 46 00-0131	EA	95', Galvanized Steel Tapered Round Pole For Distribution	19,903.10		3,161.53
26 05 46 00-0132	EA	100', Galvanized Steel Tapered Round Pole For Distribution	21,954.93		3,583.06
26 05 46 00-0133		12 Sided Tapered (26 05 46 00-0118)			
26 05 46 00-0134	EA	40', Galvanized Steel Tapered 12 Sided Pole For Distribution	9,121.45		864.39
26 05 46 00-0135	EA	45', Galvanized Steel Tapered 12 Sided Pole For Distribution	10,068.61		936.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0136 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution	11,153.25	1,008.45
26 05 46 00-0137 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution	12,249.64	1,152.52
26 05 46 00-0138 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution	16,303.22	1,296.58
26 05 46 00-0139 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution	18,079.95	1,651.02
26 05 46 00-0140 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution	20,948.53	1,873.03
26 05 46 00-0141 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution	22,535.36	2,107.69
26 05 46 00-0142 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution	24,218.50	2,388.71
26 05 46 00-0143 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution	25,658.15	2,529.22
26 05 46 00-0144 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution	29,133.01	2,810.25
26 05 46 00-0145 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution	30,917.70	3,161.53
26 05 46 00-0146 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution	33,041.84	3,583.06
26 05 46 00-0147 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution	35,316.32	4,004.61
26 05 46 00-0148 Standard Options For Round, 12 Sided and Octagonal Tapered Poles (26 05 46 00-0118)		
26 05 46 00-0149 EA Ladder Clips.....	24.55	
26 05 46 00-0150 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	184.22	
26 05 46 00-0151 EA Ground Sleeve-2' At Ground Line.....	185.29	
26 05 46 00-0152 Arms With Baseplates And Endplates (26 05 46 00-0118)		
26 05 46 00-0153 EA 4' Arm With Baseplate And Endplate.....	830.47	144.07
26 05 46 00-0154 EA 5' Arm With Baseplate And Endplate.....	904.01	144.07
26 05 46 00-0155 EA 6' Arm With Baseplate And Endplate.....	1,122.74	216.10
26 05 46 00-0156 EA 7' Arm With Baseplate And Endplate.....	1,187.06	216.10
26 05 46 00-0157 EA 8' Arm With Baseplate And Endplate.....	1,403.57	288.13
26 05 46 00-0158 EA 9' Arm With Baseplate And Endplate.....	1,477.07	288.13
26 05 46 00-0159 EA 10' Arm With Baseplate And Endplate.....	1,961.30	360.16
26 05 46 00-0160 EA 11' Arm With Baseplate And Endplate.....	2,043.81	360.16
26 05 46 00-0161 Standard Vangs Load Bearing At Any Angle (26 05 46 00-0118)		
26 05 46 00-0162 EA 15,000 Lb. Standard Vangs Load Bearing At Any Angle	348.78	144.07
26 05 46 00-0163 EA 30,000 Lb. Standard Vangs Load Bearing At Any Angle	393.83	144.07
26 05 46 00-0164 EA 45,000 Lb. Standard Vangs Load Bearing At Any Angle	455.44	144.07
26 05 46 00-0165 Armless Construction Brackets (26 05 46 00-0118)		
26 05 46 00-0166 Verticals Insulator And Equipment Bracket (26 05 46 00-0165)		
26 05 46 00-0167 EA 7" 1 Position Vertical Insulation And Equipment Bracket.....	356.12	144.07
26 05 46 00-0168 EA 12" 1 Position Vertical Insulation And Equipment Bracket.....	384.57	144.07
26 05 46 00-0169 EA 12" 3 Position Vertical Insulation And Equipment Bracket.....	430.78	144.07
26 05 46 00-0170 EA 18" 1 Position Vertical Insulation And Equipment Bracket.....	605.01	216.10
26 05 46 00-0171 EA 18" 3 Position Vertical Insulation And Equipment Bracket.....	632.00	216.10
26 05 46 00-0172 Horizontal And Multiple Insulator Brackets (26 05 46 00-0165)		
26 05 46 00-0173 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets	333.97	144.07
26 05 46 00-0174 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets	393.74	144.07
26 05 46 00-0175 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets	576.06	216.10
26 05 46 00-0176 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets	717.13	216.10
26 05 46 00-0177 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets	920.05	288.13
26 05 46 00-0178 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets	994.92	288.13
26 05 46 00-0179 Pole Top Bracket And Pins (26 05 46 00-0165)		
26 05 46 00-0180 EA Pole Top Pin - 5".....	342.65	144.07
26 05 46 00-0181 EA Pole Top Bracket - 5".....	357.16	144.07
26 05 46 00-0182 Angle Pins (26 05 46 00-0165)		
26 05 46 00-0183 EA Angle Pin - 25 Degree, 6".....	340.69	144.07
26 05 46 00-0184 EA Angle Pin - 25 Degree, 7 1/4".....	387.82	144.07
26 05 46 00-0185 Static And Neutral Wire Brackets (26 05 46 00-0165)		
26 05 46 00-0186 EA Neutral Wire Extension Bracket.....	363.13	144.07
26 05 46 00-0187 EA Static Wire Support Bracket.....	368.51	144.07
26 05 46 00-0188 Cutout, Arrestor And Terminator Brackets (26 05 46 00-0165)		
26 05 46 00-0189 EA Cutout And Arrestor, With Mounting Bracket	324.68	144.07
26 05 46 00-0190 EA Equipment Mounting T Bracket.....	348.59	144.07
26 05 46 00-0191 EA 15 KV Cutout	458.06	
26 05 46 00-0192 EA 9/10 KV Arrestor	424.41	144.07
26 05 46 00-0193 Spacer Cable, Conduit Support And Cluster Bracket (26 05 46 00-0165)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0194	EA	Parallel Cable Spacer	401.73	144.07
26 05 46 00-0195	EA	Conduit Standoff Support Bracket	384.56	144.07
26 05 46 00-0196	EA	Three Transformer Pole Mounted Cluster Bracket	979.70	144.07
26 05 46 00-0197		15 KV, 200 Amperes, Solenoid Operated High Voltage Switch (26 05 46 00-0165)		
Note: Includes pole mounting bracket.				
26 05 46 00-0198	EA	15 KV, 1 Phase, Solenoid Switch With Pole Bracket	2,202.64	360.16
26 05 46 00-0199		Octagonal Tapered (26 05 46 00-0118)		
26 05 46 00-0200	EA	40', Galvanized Steel Tapered Octagonal Pole For Distribution	9,405.72	864.39
26 05 46 00-0201	EA	45', Galvanized Steel Tapered Octagonal Pole For Distribution	10,383.91	936.42
26 05 46 00-0202	EA	50', Galvanized Steel Tapered Octagonal Pole For Distribution	11,504.72	1,008.45
26 05 46 00-0203	EA	55', Galvanized Steel Tapered Octagonal Pole For Distribution	12,632.12	1,224.55
26 05 46 00-0204	EA	60', Galvanized Steel Tapered Octagonal Pole For Distribution	16,830.43	1,296.58
26 05 46 00-0205	EA	65', Galvanized Steel Tapered Octagonal Pole For Distribution	18,648.51	1,651.02
26 05 46 00-0206	EA	70', Galvanized Steel Tapered Octagonal Pole For Distribution	21,610.13	1,756.40
26 05 46 00-0207	EA	75', Galvanized Steel Tapered Octagonal Pole For Distribution	23,240.89	2,107.69
26 05 46 00-0208	EA	80', Galvanized Steel Tapered Octagonal Pole For Distribution	24,965.37	2,248.20
26 05 46 00-0209	EA	85', Galvanized Steel Tapered Octagonal Pole For Distribution	26,448.97	2,529.22
26 05 46 00-0210	EA	90', Galvanized Steel Tapered Octagonal Pole For Distribution	30,034.95	2,669.73
26 05 46 00-0211	EA	95', Galvanized Steel Tapered Octagonal Pole For Distribution	31,866.16	3,161.53
26 05 46 00-0212	EA	100', Galvanized Steel Tapered Octagonal Pole For Distribution	34,036.82	3,372.30
26 05 46 00-0213	EA	105', Galvanized Steel Tapered Octagonal Pole For Distribution	36,362.99	3,793.84
26 05 46 00-0214		Removal And Relocation Of Steel Service Poles (26 05 46 00-0118)		
26 05 46 00-0215	LF	Removal And Relocation Of Steel Service Poles With Arms Up To 60'	50.41	
26 05 46 00-0216		Special Steel Bases For Poles (26 05 46 00-0118)		
26 05 46 00-0217	EA	Spin-In Steel Base For Poles	293.40	
26 05 46 00-0218	EA	Series 3, 25' Pole And less	324.90	72.03
26 05 46 00-0219	EA	Series 4, 40' Pole And less	386.69	82.84
26 05 46 00-0220	EA	Series 5, 50' Pole And less	441.28	90.04
26 05 53 Identification for Electrical Systems (26 05)				
26 05 53 00-0001		Conduit Markers Pressure-Sensitive (26 05 53)		
Note: Stick-on, includes arrow tape.				
26 05 53 00-0002	EA	1/2" Outside Diameter Pressure Sensitive Marker Stick-on	14.66	
26 05 53 00-0003	EA	3/4" Outside Diameter Pressure Sensitive Marker Stick-on	15.31	
26 05 53 00-0004	EA	1" Outside Diameter Pressure Sensitive Marker Stick-on	16.62	
26 05 53 00-0005	EA	1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on	16.88	
26 05 53 00-0006	EA	1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	17.13	
26 05 53 00-0007	EA	2" Outside Diameter Pressure Sensitive Marker Stick-on	17.53	
26 05 53 00-0008	EA	2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	20.60	
26 05 53 00-0009	EA	3" Outside Diameter Pressure Sensitive Marker Stick-on	21.12	
26 05 53 00-0010	EA	3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	21.50	
26 05 53 00-0011	EA	4" Outside Diameter Pressure Sensitive Marker Stick-on	21.90	
26 05 53 00-0012	EA	4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on	22.72	
26 05 53 00-0013	EA	5" Outside Diameter Pressure Sensitive Marker Stick-on	23.59	
26 05 53 00-0014	EA	6" Outside Diameter Pressure Sensitive Marker Stick-on	24.36	
26 05 53 00-0015	EA	7" Outside Diameter Pressure Sensitive Marker Stick-on	25.12	
26 05 53 00-0016	EA	8" Outside Diameter Pressure Sensitive Marker Stick-on	27.60	
26 05 53 00-0017	EA	10" Outside Diameter Pressure Sensitive Marker Stick-on	29.03	
26 05 53 00-0018		Labeling Existing Electrical Wires (26 05 53)		
Note: Self-adhesive vinyl coated white cloth				
26 05 53 00-0019	EA	Labeling Existing Wire	3.99	
26 05 53 00-0020		Equipment Labeling (26 05 53)		
26 05 53 00-0021	EA	Label Both Ends Of One 4 Pair Cable	25.55	
26 05 53 00-0022	EA	Label single gang face plate (2 labels required)	20.44	
26 05 53 00-0023	EA	Label two gang face plate (4 labels required)	30.65	
26 05 53 00-0024	EA	Label both ends of a Siamese (dual 4 Pair cable)	25.55	
26 05 83 Wiring Connections (26 05)				
26 05 83 00-0001		Tape Wrapped Compression Connectors (26 05 83)		
26 05 83 00-0002	EA	#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	17.38	5.84
26 05 83 00-0003	EA	#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	19.05	6.49
26 05 83 00-0004	EA	#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	20.63	7.14
26 05 83 00-0005	EA	1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	23.88	7.78
26 05 83 00-0006	EA	2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	25.69	8.44



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0007	EA		3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	28.49	9.09
26 05 83 00-0008	EA		4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	30.54	9.73
26 05 83 00-0009	EA		250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	33.26	10.38
26 05 83 00-0010	EA		300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	36.81	11.68
26 05 83 00-0011	EA		350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	38.62	12.33
26 05 83 00-0012	EA		400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	42.99	12.98
26 05 83 00-0013	EA		500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	46.79	13.63
26 05 83 00-0014	EA		750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt	52.31	14.93
26 05 83 00-0015	EA		1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	60.69	16.87
26 05 83 00-0016 One Hole Compression Lugs (26 05 83)					
26 05 83 00-0017	EA		#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	22.46	16.87
26 05 83 00-0018	EA		#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	22.63	16.87
26 05 83 00-0019	EA		#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	25.61	18.17
26 05 83 00-0020	EA		#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	31.78	20.12
26 05 83 00-0021	EA		#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	44.60	25.96
26 05 83 00-0022	EA		#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	52.16	25.96
26 05 83 00-0023	EA		#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	60.02	25.96
26 05 83 00-0024	EA		1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	73.86	38.94
26 05 83 00-0025	EA		2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	86.51	38.94
26 05 83 00-0026	EA		3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	101.21	38.94
26 05 83 00-0027	EA		4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	122.00	51.92
26 05 83 00-0028	EA		250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	144.68	77.87
26 05 83 00-0029	EA		300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	165.51	77.87
26 05 83 00-0030	EA		350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	177.88	77.87
26 05 83 00-0031	EA		400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	193.78	90.85
26 05 83 00-0032	EA		500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	211.88	90.85
26 05 83 00-0033	EA		750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	230.23	103.83
26 05 83 00-0034	EA		1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	270.99	116.81
26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)					
26 05 83 00-0036	EA		#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	45.92	22.07
26 05 83 00-0037	EA		#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	49.33	23.49
26 05 83 00-0038	EA		#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	51.96	23.49
26 05 83 00-0039	EA		#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	59.80	26.99
26 05 83 00-0040	EA		1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	73.63	33.74
26 05 83 00-0041	EA		2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	86.27	40.10
26 05 83 00-0042	EA		3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	100.94	46.99
26 05 83 00-0043	EA		4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	121.69	56.98
26 05 83 00-0044	EA		250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	144.32	67.62
26 05 83 00-0045	EA		300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	165.10	77.23
26 05 83 00-0046	EA		350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	177.44	83.20
26 05 83 00-0047	EA		400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	193.27	90.08
26 05 83 00-0048	EA		500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	211.30	98.38
26 05 83 00-0049	EA		750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	230.99	106.69
26 05 83 00-0050	EA		1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	286.17	129.79
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)					
26 05 83 00-0052	EA		#8 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	68.43	51.92
26 05 83 00-0053	EA		#6 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	75.24	55.81
26 05 83 00-0054	EA		#4 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	85.80	58.40
26 05 83 00-0055	EA		#2 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	99.69	64.89
26 05 83 00-0056	EA		1/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	117.76	71.38
26 05 83 00-0057	EA		2/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	132.30	77.87
26 05 83 00-0058	EA		3/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	165.46	84.36
26 05 83 00-0059	EA		4/0 AWG Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	177.53	90.85
26 05 83 00-0060	EA		250 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	187.15	97.34
26 05 83 00-0061	EA		300 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	213.90	107.08
26 05 83 00-0062	EA		350 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	240.65	155.75
26 05 83 00-0063	EA		400 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	263.73	129.79
26 05 83 00-0064	EA		500 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	286.81	175.21
26 05 83 00-0065	EA		750 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	318.91	181.70
26 05 83 00-0066	EA		1,000 MCM Split Bolt Connectors, Tape Wrapped, Low Voltage, To 600 Volt	361.89	194.68
26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)					
26 05 83 00-0068	EA		#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	114.08	51.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.26	
26 05 83 00-0069	EA		#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	126.82	51.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.90	
26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	175.49	77.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.27	
26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	199.08	77.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.92	
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	238.34	97.34
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.00	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	333.33	129.79
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.12	

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0074			Terminal Blocks (26 05 83)		
			Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,151.26	480.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	288.42	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	302.40	65.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.41	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	334.38	65.04
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.82	
26 05 83 00-0078			Parallel Gutter Tap Or Motor Connection (26 05 83)		
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	45.91	23.49
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	49.33	23.49
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	51.96	23.49
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	59.80	26.99
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	73.63	33.74
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	86.27	40.10
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	100.94	46.99
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	121.69	56.98
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	144.32	67.62
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	165.10	77.23
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	177.44	83.20
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	193.27	90.08
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	211.30	98.38
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	211.82	98.38
26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	45.91	23.49
26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	49.33	23.49
26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	51.96	23.49
26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	59.80	26.99
26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	73.63	33.74
26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	86.27	40.10
26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	100.94	46.99
26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	121.69	56.98
26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	144.32	67.62
26 05 83 00-0102	EA		300 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	165.10	77.23
26 05 83 00-0103	EA		350 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	177.44	83.20
26 05 83 00-0104	EA		400 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	193.27	90.08
26 05 83 00-0105	EA		500 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	211.30	98.38
26 05 83 00-0106	EA		750 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	211.82	98.38
26 05 83 00-0107			Copper Mechanical Lugs (26 05 83)		
26 05 83 00-0108	EA		#8 Copper Mechanical Lugs.....	36.64	16.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.74	
26 05 83 00-0109	EA		#6 Copper Mechanical Lugs.....	43.99	19.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.76	
26 05 83 00-0110	EA		#4 Copper Mechanical Lugs.....	50.83	22.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.63	
26 05 83 00-0111	EA		#2 Copper Mechanical Lugs.....	66.44	28.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.38	
26 05 83 00-0112	EA		1/0 Copper Mechanical Lugs.....	89.47	38.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.36	
26 05 83 00-0113	EA		2/0 Copper Mechanical Lugs.....	106.54	45.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.14	
26 05 83 00-0114	EA		3/0 Copper Mechanical Lugs.....	124.49	51.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.15	
26 05 83 00-0115	EA		4/0 Copper Mechanical Lugs.....	141.62	58.28
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.93	
26 05 83 00-0116	EA		250 MCM Copper Mechanical Lugs.....	161.99	64.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.93	
26 05 83 00-0117	EA		300 MCM Copper Mechanical Lugs.....	182.06	71.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.85	
26 05 83 00-0118	EA		350 MCM Copper Mechanical Lugs.....	202.03	77.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.72	
26 05 83 00-0119	EA		400 MCM Copper Mechanical Lugs.....	221.86	84.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.58	
26 05 83 00-0120	EA		500 MCM Copper Mechanical Lugs.....	242.03	90.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.51	
26 05 83 00-0121	EA		750 MCM Copper Mechanical Lugs.....	274.36	103.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.10	
26 05 83 00-0122	EA		1,000 MCM Copper Mechanical Lugs.....	310.58	116.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.09	
26 05 83 00-0123			Gel Connectors (26 05 83)		
26 05 83 00-0124	EA		3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	69.96	
			Note: Kit contains connector, gel filled cap and cap clamp.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.90	
26 05 83 00-0125	EA		4 Port, #14 to 2, Gel Tap Splice Kit.....	67.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0126			Other Connections (26 05 83)		
26 05 83 00-0127	EA		#14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	12.93	5.93
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 83 00-0128	EA		#12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.04	5.93
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 83 00-0129	EA		#10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	13.15	5.93
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 83 00-0130			Motor/Equipment Connections And Terminations (26 05 83)		
			Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors.		
26 05 83 00-0131			AC Single Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0132	EA		<1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	78.32	32.45
26 05 83 00-0133	EA		1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	77.87	32.45
26 05 83 00-0134	EA		3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.39	38.94
26 05 83 00-0135	EA		1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	111.85	48.67
26 05 83 00-0136	EA		1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.76	48.67
26 05 83 00-0137	EA		2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.94	48.67
26 05 83 00-0138	EA		3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	115.91	48.67
26 05 83 00-0139	EA		5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	148.72	64.89
26 05 83 00-0140	EA		7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	152.06	64.89
26 05 83 00-0141	EA		10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	191.99	81.12
26 05 83 00-0142			AC Three Phase, 230 Volt (26 05 83 00-0130)		
26 05 83 00-0143	EA		1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	77.87	32.45
26 05 83 00-0144	EA		3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.39	38.94
26 05 83 00-0145	EA		1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	111.85	48.67
26 05 83 00-0146	EA		1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.76	48.67
26 05 83 00-0147	EA		2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.94	48.67
26 05 83 00-0148	EA		3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	115.91	48.67
26 05 83 00-0149	EA		5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	148.72	64.89
26 05 83 00-0150	EA		7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	152.06	64.89
26 05 83 00-0151	EA		10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	191.99	81.12
26 05 83 00-0152	EA		15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	196.50	81.12
26 05 83 00-0153	EA		20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	246.70	97.34
26 05 83 00-0154	EA		25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	253.56	97.34
26 05 83 00-0155	EA		30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	345.22	129.79
26 05 83 00-0156	EA		40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	432.65	162.24
26 05 83 00-0157	EA		50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	510.73	194.68
26 05 83 00-0158	EA		60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	606.80	227.13
26 05 83 00-0159	EA		75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	697.12	259.58
26 05 83 00-0160	EA		100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	865.76	324.47
26 05 83 00-0161	EA		125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,023.17	386.13
26 05 83 00-0162	EA		150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,210.13	450.37
26 05 83 00-0163	EA		200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,732.65	675.43
26 05 83 00-0164			AC Three Phase, 460 Volt (26 05 83 00-0130)		
26 05 83 00-0165	EA		1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	77.87	32.45
26 05 83 00-0166	EA		3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.39	38.94
26 05 83 00-0167	EA		1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	111.85	48.67
26 05 83 00-0168	EA		1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.76	48.67
26 05 83 00-0169	EA		2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	112.94	48.67
26 05 83 00-0170	EA		3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	115.91	48.67
26 05 83 00-0171	EA		5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	148.72	64.89
26 05 83 00-0172	EA		7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	152.06	64.89
26 05 83 00-0173	EA		10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	191.99	81.12
26 05 83 00-0174	EA		15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	196.50	81.12
26 05 83 00-0175	EA		20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	246.71	97.34
26 05 83 00-0176	EA		25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	253.55	97.34
26 05 83 00-0177	EA		30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	345.22	129.79
26 05 83 00-0178	EA		40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	433.05	162.49
26 05 83 00-0179	EA		50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	510.73	194.68
26 05 83 00-0180	EA		60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	606.80	227.13
26 05 83 00-0181	EA		75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	697.12	259.58
26 05 83 00-0182	EA		100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	865.76	324.47
26 05 83 00-0183	EA		125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,023.54	386.26
26 05 83 00-0184	EA		150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,210.63	450.64
26 05 83 00-0185	EA		200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,733.78	675.95
26 05 83 00-0186			AC Single Phase, 120 Volt (26 05 83 00-0130)		
26 05 83 00-0187	EA		1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	78.33	32.45

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 83 00-0188	Motor Moisture Sensor (26 05 83 00-0130)		
26 05 83 00-0189	EA Motor Moisture Sensor Located In Winding	794.54	

26 09 Instrumentation and Control for Electrical Systems (26)

Note: Includes testing of new devices and certification.

26 09 23 Lighting Control Devices (26 09)

26 09 23 00-0001	Lighting Contactors (26 09 23)		
	Note: Up to 600 volt.		
26 09 23 00-0002	Electrically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0003	NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0004	2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0005	EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	565.39	103.83
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.30	
26 09 23 00-0006	EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	701.46	116.81
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.09	
26 09 23 00-0007	EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,321.70	181.70
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.03	
26 09 23 00-0008	EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	2,066.75	246.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.96	
26 09 23 00-0009	EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	4,349.38	324.47
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	194.69	
26 09 23 00-0010	3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0011	EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	638.62	116.81
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.09	
26 09 23 00-0012	EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	768.70	129.79
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.87	
26 09 23 00-0013	EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,428.65	207.66
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	124.60	
26 09 23 00-0014	EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	2,230.71	272.56
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.54	
26 09 23 00-0015	EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	4,666.88	356.93
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	214.16	
26 09 23 00-0016	4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0003)		
26 09 23 00-0017	EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	753.75	129.79
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.87	
26 09 23 00-0018	EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	907.67	142.77
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.66	
26 09 23 00-0019	EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	1,732.18	233.62
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.18	
26 09 23 00-0020	EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	2,674.79	298.51
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	179.11	
26 09 23 00-0021	EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor	5,973.11	389.38
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	233.62	
26 09 23 00-0022	NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0023	2-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0024	EA 30 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	932.50	116.81
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.09	
26 09 23 00-0025	EA 60 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	1,895.23	181.70
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.03	
26 09 23 00-0026	EA 100 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	2,857.95	246.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.96	
26 09 23 00-0027	3-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0028	EA 30 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	1,340.28	129.79
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	77.87	
26 09 23 00-0029	EA 60 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	2,077.94	207.66
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	124.60	
26 09 23 00-0030	EA 100 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	3,149.54	272.56
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.54	
26 09 23 00-0031	EA 200 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	7,318.88	356.93
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	214.16	
26 09 23 00-0032	4-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)		
26 09 23 00-0033	EA 30 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	1,263.54	142.77
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.66	
26 09 23 00-0034	EA 60 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor	2,083.97	233.62
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0035 EA 100 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,852.47 179.11	298.51
26 09 23 00-0036 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0037 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0038 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	945.69 62.30	103.83
26 09 23 00-0039 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,205.66 70.09	116.81
26 09 23 00-0040 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,327.16 109.03	181.70
26 09 23 00-0041 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,494.84 147.96	246.60
26 09 23 00-0042 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,786.85 194.69	324.47
26 09 23 00-0043 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0044 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	979.17 70.09	116.81
26 09 23 00-0045 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,272.90 77.87	129.79
26 09 23 00-0046 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,437.05 124.60	207.66
26 09 23 00-0047 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,657.81 163.54	272.56
26 09 23 00-0048 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7,103.36 214.16	356.93
26 09 23 00-0049 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)		
26 09 23 00-0050 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,057.77 77.87	129.79
26 09 23 00-0051 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,411.88 85.66	142.77
26 09 23 00-0052 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,132.74 140.18	233.62
26 09 23 00-0053 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,494.04 179.11	298.51
26 09 23 00-0054 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9,490.73 233.62	389.38
26 09 23 00-0055 NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)		
26 09 23 00-0056 2-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0057 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,845.33 109.03	181.70
26 09 23 00-0058 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,038.79 147.96	246.60
26 09 23 00-0059 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,778.23 194.69	324.47
26 09 23 00-0060 3-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0061 EA 60 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,039.51 124.60	207.66
26 09 23 00-0062 EA 100 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,293.95 163.54	272.56
26 09 23 00-0063 4-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)		
26 09 23 00-0064 EA 60 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,557.46 140.18	233.62
26 09 23 00-0065 EA 100 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,154.49 179.11	298.51
26 09 23 00-0066 Mechanically Held, Lighting Contactors (26 09 23 00-0001)		
26 09 23 00-0067 NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0068 2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0069 EA 20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	842.56 62.30	103.83
26 09 23 00-0070 EA 30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	958.96 70.09	116.81
26 09 23 00-0071 EA 60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,822.95 109.03	181.70

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0072 EA 100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,541.47 147.96	246.60
26 09 23 00-0073 EA 200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,890.49 194.69	324.47
26 09 23 00-0074 3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0075 EA 20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	899.67 70.09	116.81
26 09 23 00-0076 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,028.17 77.87	129.79
26 09 23 00-0077 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,932.85 124.60	207.66
26 09 23 00-0078 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,706.41 163.54	272.56
26 09 23 00-0079 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,625.70 214.16	356.93
26 09 23 00-0080 4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0067)		
26 09 23 00-0081 EA 20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	970.75 77.87	129.79
26 09 23 00-0082 EA 30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,095.40 85.66	142.77
26 09 23 00-0083 EA 60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,262.92 140.18	233.62
26 09 23 00-0084 EA 100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,178.99 179.11	298.51
26 09 23 00-0085 EA 200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,005.64 233.62	389.38
26 09 23 00-0086 NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0087 2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0088 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,271.20 62.30	103.83
26 09 23 00-0089 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,463.17 70.09	116.81
26 09 23 00-0090 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,831.36 109.03	181.70
26 09 23 00-0091 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,969.55 147.96	246.60
26 09 23 00-0092 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,326.00 194.69	324.47
26 09 23 00-0093 3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0094 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,342.28 70.09	116.81
26 09 23 00-0095 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,532.37 77.87	129.79
26 09 23 00-0096 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,941.26 124.60	207.66
26 09 23 00-0097 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,135.47 163.54	272.56
26 09 23 00-0098 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,063.17 214.16	356.93
26 09 23 00-0099 4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0100 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,418.73 77.87	129.79
26 09 23 00-0101 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,599.60 85.66	142.77
26 09 23 00-0102 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,663.48 140.18	233.62
26 09 23 00-0103 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,998.25 179.11	298.51
26 09 23 00-0104 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,451.52 233.62	389.38
26 09 23 00-0105 NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)		
26 09 23 00-0106 2-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)		
26 09 23 00-0107 EA 30 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	789.37 70.09	116.81
26 09 23 00-0108 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,460.28 109.03	207.66



Electrical		26
Instrumentation and Control for Electrical Systems		26 09
Lighting Control Devices		26 09 23

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0109 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,989.81 147.96	246.60
26 09 23 00-0110 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,644.54 194.69	324.47
26 09 23 00-0111 3-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0109)		
26 09 23 00-0112 EA 30 Amperes, 3 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	840.31 77.87	129.79
26 09 23 00-0113 4-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0109)		
26 09 23 00-0114 EA 200 Amperes, 4 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,267.89 233.62	389.38
26 09 23 00-0115 Combination Lighting Contactors (26 09 23) Note: Up to 600 volt.		
26 09 23 00-0116 Electrically Held, Combination Lighting Contactors (26 09 23 00-0115)		
26 09 23 00-0117 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0116)		
26 09 23 00-0118 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0117)		
26 09 23 00-0119 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,634.49 85.66	142.77
26 09 23 00-0120 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,562.13 137.06	228.43
26 09 23 00-0121 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,146.75 179.89	299.82
26 09 23 00-0122 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,591.96 235.57	392.62
26 09 23 00-0123 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0118)		
26 09 23 00-0124 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0123)		
26 09 23 00-0125 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,977.56 85.66	142.77
26 09 23 00-0126 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,632.01 137.06	228.43
26 09 23 00-0127 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,758.73 179.89	299.82
26 09 23 00-0128 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,212.35 235.57	392.62
26 09 23 00-0129 Mechanically Held, Combination Lighting Contactors (26 09 23 00-0115)		
26 09 23 00-0130 NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0129)		
26 09 23 00-0131 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0130)		
26 09 23 00-0132 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,787.82 85.66	142.77
26 09 23 00-0133 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,092.87 137.06	228.43
26 09 23 00-0134 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,649.48 179.89	299.82
26 09 23 00-0135 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,020.54 235.57	392.62
26 09 23 00-0136 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0129)		
26 09 23 00-0137 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0136)		

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26 09 23 00-0138 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,132.36 85.66	142.77
26 09 23 00-0139 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,165.70 137.06	228.43
26 09 23 00-0140 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,262.93 179.89	299.82
26 09 23 00-0141 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,640.92 235.57	392.62
26 09 23 00-0142 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket (26 09 23)		
26 09 23 00-0143 EA 105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	148.62 20.28	33.74
26 09 23 00-0144 EA 105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.05 20.28	33.74
26 09 23 00-0145 Dimming Module System (Lutron Grafik Eye) (26 09 23)		
26 09 23 00-0146 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,809.79 77.87	129.79
26 09 23 00-0147 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,336.29 77.87	129.79
26 09 23 00-0148 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,872.18 77.87	129.79
26 09 23 00-0149 Dimming Module Contol (Leviton) (26 09 23)		
26 09 23 00-0150 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	234.15 9.76	16.26
26 09 23 00-0151 Light Control Panels (26 09 23)		
26 09 23 00-0152 Lighting Control Panels (Watt Stopper) (26 09 23 00-0151)		
26 09 23 00-0153 Lighting Control Panels (Watt Stopper) (26 09 23 00-0152)		
26 09 23 00-0154 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,122.20 109.28	182.12
26 09 23 00-0155 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,988.30 117.08	195.13
26 09 23 00-0156 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,238.12 117.08	195.13
26 09 23 00-0157 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,356.09 117.08	195.13
26 09 23 00-0158 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,649.38 117.08	195.13
26 09 23 00-0159 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,362.46 109.28	182.12
26 09 23 00-0160 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,534.99 117.08	195.13
26 09 23 00-0161 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,827.99 117.08	195.13
26 09 23 00-0162 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,473.30 117.08	195.13
26 09 23 00-0163 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,766.58 117.08	195.13
26 09 23 00-0164 Accessories For Lighting Control Panels (Watt Stopper) (26 09 23 00-0152)		
26 09 23 00-0165 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	204.32 19.51	32.52
26 09 23 00-0166 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.17 15.61	26.02
26 09 23 00-0167 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.80 15.61	26.02
26 09 23 00-0168 Lighting Control Panels (Synergy) (26 09 23 00-0151)		
26 09 23 00-0169 Lighting Control Panels (Synergy) (26 09 23 00-0168)		
26 09 23 00-0170 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,871.71 117.08	195.13
26 09 23 00-0171 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0168)		
26 09 23 00-0172 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	703.50 19.51	32.52



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26 09 23 00-0173 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20).....	272.51	13.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81	
26 09 23 00-0174 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT).....	155.03	19.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.71	
26 09 23 00-0175 Lighting Switching Panels (Lutron) (26 09 23 00-0151)		
26 09 23 00-0176 Lighting Switching Panels (Lutron) (26 09 23 00-0175)		
26 09 23 00-0177 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....	2,338.85	195.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.08	
26 09 23 00-0178 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT).....	3,203.45	208.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	124.88	
26 09 23 00-0179 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT).....	4,192.05	221.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.69	
26 09 23 00-0180 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0151)		
26 09 23 00-0181 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z).....	1,567.07	182.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.28	
26 09 23 00-0182 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z).....	1,785.76	182.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.28	
26 09 23 00-0183 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z).....	2,004.45	182.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.28	
26 09 23 00-0184 Power Filters (26 09 23 00-0151)		
26 09 23 00-0185 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure	42,366.48	1,081.55
26 09 23 00-0186 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure	25,062.49	470.23
26 09 23 00-0187 Signal Filters (26 09 23 00-0151)		
26 09 23 00-0188 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case	19,387.95	983.29
26 09 23 00-0189 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case	13,262.75	600.93
26 09 23 00-0190 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....	7,398.35	348.88
26 09 23 00-0191 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case.....	10,078.57	348.88
26 09 23 00-0192 Lighting Control Devices (Encelium) (26 09 23)		
26 09 23 00-0193 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120 Volt) With Polaris 3D™ (Encelium EN-ECU-G4-P3D).....	16,566.48	130.09
Note: Excludes GB II cable.		
26 09 23 00-0194 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U)	7,575.29	130.09
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0195 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT).....	3,944.17	130.09
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0196 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT)	16,663.90	130.09
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0197 EA Isolated, Wired Luminaire Control Module (Encelium EN-ILCM-1R10V-GB2-BK).....	131.43	16.26
Note: Excludes GB II cable.		
26 09 23 00-0198 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-ILCM-1R10V-GB2-BK/DR).....	203.37	16.26
Note: Excludes GB II cable.		
26 09 23 00-0199 EA Wired Area Lighting Controller, Heavy-Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK).....	256.22	32.52
Note: Excludes GB II cable.		
26 09 23 00-0200 EA Damp Rated, Wired Area Lighting Controller, Heavy-Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR).....	309.10	32.52
Note: Excludes GB II cable.		
26 09 23 00-0201 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK).....	163.95	32.52
Note: Excludes GB II cable.		
26 09 23 00-0202 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR).....	235.89	32.52
Note: Excludes GB II cable.		
26 09 23 00-0203 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700)	593.80	65.04
Note: Excludes cable.		
26 09 23 00-0204 EA Rack Mounted, Wired Power Bar (Encelium PWR-700)	446.01	65.04
26 09 23 00-0205 EA Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800)	817.54	65.04
26 09 23 00-0206 EA Wall Mounted, 4U Mounting Rack (Encelium RCK-700).....	278.99	65.04
26 09 23 00-0207 EA 4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042)	916.51	65.04
Note: Excludes cable.		
26 09 23 00-0208 EA Wired BACnet Interface (Encelium BIF-600)	9,608.96	260.18
Note: Excludes cable.		
26 09 23 00-0209 EA Wired AV Interface (Encelium EN-SW-AVINT).....	7,112.99	65.04
Note: Excludes cable.		
26 09 23 00-0210 EA Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH).....	266.42	16.26
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0211 EA 3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH)	324.86	16.26
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0212 EA 3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH).....	310.76	16.26
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0213 EA 5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH)	324.86	16.26
Note: Includes white finish. Excludes GB II cable.		

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26 09 23 00-0214 EA 6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH).....	310.76	16.26
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0215 EA Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT).....	234.82	16.26
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0216 EA Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT).....	324.86	16.26
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0217 EA 3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT).....	310.76	16.26
Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0218 EA Wired Key Switch Controller (Encelium KSW-300).....	229.14	16.26
Note: Excludes GB II cable.		
26 09 23 00-0219 EA Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH).....	97.61	16.26
Note: Includes white finish.		
26 09 23 00-0220 EA 1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2).....	79.83	32.52
26 09 23 00-0221 EA 1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2).....	80.45	32.52
26 09 23 00-0222 EA 5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2).....	85.43	32.52
26 09 23 00-0223 EA 10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2).....	90.35	32.52
26 09 23 00-0224 EA 15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2).....	96.22	32.52
26 09 23 00-0225 EA 20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2).....	101.51	32.52
26 09 23 00-0226 EA 25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2).....	108.01	32.52
26 09 23 00-0227 EA 50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2).....	137.40	32.52
26 09 23 00-0228 EA 1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2).....	880.25	32.52
26 09 23 00-0229 EA Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....	214.19	32.52
26 09 23 00-0230 EA 1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....	1,136.20	32.52
26 09 23 00-0231 EA Indoor Wired Photo Sensor (Encelium PHS-700).....	665.68	65.04
Note: Excludes GB II cable.		
26 09 23 00-0232 EA Outdoor Wired Photo Sensor (Encelium PHS-800).....	665.68	65.04
Note: Excludes GB II cable.		
26 09 23 00-0233 EA Skylight Wired Photo Sensor (Encelium PHS-900).....	665.68	65.04
Note: Excludes GB II cable.		
26 09 23 00-0234 EA 450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450).....	347.20	65.04
Note: Excludes GB II cable.		
26 09 23 00-0235 EA 1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500).....	336.52	65.04
Note: Excludes GB II cable.		
26 09 23 00-0236 EA 2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00).....	343.64	65.04
Note: Excludes GB II cable.		
26 09 23 00-0237 EA High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY).....	379.23	65.04
Note: Excludes GB II cable.		
26 09 23 00-0238 EA Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG).....	343.64	65.04
Note: Excludes GB II cable.		
26 09 23 00-0239 EA 120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV).....	272.47	65.04
Note: Excludes GB II cable.		
26 09 23 00-0240 EA High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V).....	288.74	65.04
Note: Excludes GB II cable.		
26 09 23 00-0241 EA High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPSM24V).....	288.74	65.04
Note: Excludes GB II cable.		
26 09 23 00-0242 EA 360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360).....	153.15	65.04
Note: Excludes GB II cable.		
26 09 23 00-0243 EA Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24).....	352.45	65.04
Note: Excludes GB II cable.		
26 09 23 00-0244 EA Hallway, Wired Occupancy Sensor (Encelium HW-13).....	497.54	65.04
Note: Excludes GB II cable.		
26 09 23 00-0245 EA 500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500).....	436.18	65.04
Note: Excludes GB II cable.		
26 09 23 00-0246 EA 1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000).....	464.65	65.04
Note: Excludes GB II cable.		
26 09 23 00-0247 EA 2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000).....	478.90	65.04
Note: Excludes GB II cable.		
26 09 23 00-0248 EA 1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM-1200).....	432.62	65.04
Note: Excludes GB II cable.		
26 09 23 00-0249 EA 120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV).....	361.45	65.04
Note: Excludes GB II cable.		
26 09 23 00-0250 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W).....	451.49	65.04
Note: Excludes GB II cable.		
26 09 23 00-0251 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W).....	447.76	65.04
Note: Excludes GB II cable.		
26 09 23 00-0252 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W).....	496.33	65.04
Note: Excludes GB II cable.		
26 09 23 00-0253 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W).....	481.40	65.04
Note: Excludes GB II cable.		
26 09 23 00-0254 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24).....	517.89	65.04
Note: Excludes GB II cable.		
26 09 23 00-0255 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV).....	481.54	65.04
Note: Excludes GB II cable.		
26 09 23 00-0256 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT).....	481.54	65.04
Note: Excludes GB II cable.		
26 09 23 00-0257 EA 10 Amperes, 120 Volt, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C).....	317.52	65.04
26 09 23 00-0258 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C).....	339.89	65.04
26 09 23 00-0259 EA 20 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P).....	593.30	65.04



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0260	EA		20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P).....	634.38	65.04
26 09 23 00-0261	EA		10 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D).....	468.67	65.04
26 09 23 00-0262	EA		10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D).....	488.52	65.04
26 09 23 00-0263	EA		24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2)	1,399.14	130.09
			Note: Excludes GB II cable and enclosure.		
26 09 23 00-0264	EA		24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V)	4,376.22	520.35
			Note: Excludes GB II cable.		
26 09 23 00-0265	EA		12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V)	6,377.54	520.35
			Note: Excludes GB II cable.		
26 09 23 00-0266	EA		24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V)	8,378.84	520.35
			Note: Excludes GB II cable.		
26 09 23 00-0267	EA		Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2).....	699.57	65.04
			Note: Excludes GB II cable.		
26 09 23 00-0268	EA		Wired DALI Bridge (Encelium EN-DB-1L-GB2)	801.27	65.04
			Note: Excludes GB II cable.		
26 09 23 00-0269	EA		Wireless Manager (Encelium EN-WM-ZB-P3D)	2,163.94	65.04
			Note: Includes white finish.		
26 09 23 00-0270	EA		Wireless Control Module (Encelium EN-WCM-ZB).....	295.54	32.52
26 09 23 00-0271	EA		Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR)	349.78	32.52
26 09 23 00-0272	EA		Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK).....	351.13	32.52
26 09 23 00-0273	EA		Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR).....	363.92	32.52
26 09 23 00-0274	EA		2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0275	EA		3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0276	EA		3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0277	EA		5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0278	EA		6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0279	EA		Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	271.83	16.26
26 09 23 00-0280	EA		315 MHz, Wireless Photocell (Encelium TAP-17C)	577.54	65.04
26 09 23 00-0281	EA		450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB)	360.59	65.04
26 09 23 00-0282	EA		1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB)	360.59	65.04
26 09 23 00-0283	EA		1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	414.83	65.04
26 09 23 00-0284	EA		450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	414.83	65.04
26 09 23 00-0285	EA		2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0286	EA		3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0287	EA		3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0288	EA		5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0289	EA		6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0290	EA		Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	271.83	16.26
			Note: Includes white finish.		
26 09 23 00-0291	EA		315 MHz, Wireless Photocell (Encelium TAP-17C)	577.54	65.04
26 09 23 00-0292	EA		3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)	263.02	16.26
26 09 23 00-0293	EA		5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	263.02	16.26
26 09 23 00-0294	EA		6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)	263.02	16.26
26 09 23 00-0295	EA		Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	271.83	16.26
26 09 23 00-0296	EA		315 MHz, Wireless Photocell (Encelium TAP-17C)	577.54	65.04
26 09 23 00-0297	EA		450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB)	360.59	65.04
26 09 23 00-0298	EA		1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB)	360.59	65.04
26 09 23 00-0299	EA		1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR).....	414.83	65.04
26 09 23 00-0300	EA		450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR).....	414.83	65.04
26 09 23 00-0301	EA		2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH).....	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0302	EA		3 Scene Control, Wireless, Wall Station (Encelium EN-WS-SC3-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0303	EA		3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0304	EA		5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0305	EA		6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH)	263.02	16.26
			Note: Includes white finish.		
26 09 23 00-0306	EA		Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW)	271.83	16.26
26 09 23 00-0307	EA		315 MHz, Wireless Photocell (Encelium TAP-17C)	577.54	65.04
26 09 23 00-0308	EA		Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB)	161.27	65.04
26 09 23 00-0309	EA		Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit).....	755.96	65.04

26 09 23 00-0310

Lighting Control Sensors (26 09 23)

26 09 23 00-0311	EA		DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI)	402.92	29.27
26 09 23 00-0312	EA		DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI)	402.92	29.27
26 09 23 00-0313	EA		Smart Multi-sensor (LG 9SD131VVDA.ALWB000)	352.93	29.27
26 09 23 00-0314	EA		Zigbee Dongle (LG 9CM2315VD2.AWP01U)	106.36	19.51
26 09 23 00-0315	EA		Clip for Performance Troffer (LG BKTTR015122.BUAAWAA).....	8.59	
26 09 23 00-0316	EA		Clip for Downlight (BKTCE015123.BUAAWAA).....	69.24	
26 09 23 00-0317	EA		Clip for Tube (LG BKTU015121.BUAAWAA).....	12.23	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0318		Radio Controlled Devices (Lutron) (26 09 23)		
26 09 23 00-0319		Tabletop Transmitters For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0320		Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0321	EA	One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH).....	531.29	19.51
26 09 23 00-0322	EA	Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH).....	690.90	19.51
26 09 23 00-0323	EA	Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH).....	870.46	19.51
26 09 23 00-0324		Dimmable Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0325	EA	One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH).....	531.29	19.51
26 09 23 00-0326	EA	Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH).....	631.05	19.51
26 09 23 00-0327	EA	Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH).....	870.46	19.51
26 09 23 00-0328	EA	One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH).....	531.29	19.51
26 09 23 00-0329	EA	Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH).....	690.90	19.51
26 09 23 00-0330	EA	Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH).....	870.46	19.51
26 09 23 00-0331		Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0332	EA	One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH).....	690.90	19.51
26 09 23 00-0333	EA	Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH).....	870.46	19.51
26 09 23 00-0334	EA	One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH).....	870.46	19.51
26 09 23 00-0335		Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0336	EA	One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B-WH).....	531.29	19.51
26 09 23 00-0337	EA	Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3-B-WH).....	690.90	19.51
26 09 23 00-0338	EA	One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH).....	631.05	19.51
26 09 23 00-0339	EA	Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH).....	770.71	19.51
26 09 23 00-0340	EA	One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH).....	690.90	19.51
26 09 23 00-0341	EA	Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH).....	830.56	19.51
26 09 23 00-0342	EA	One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH).....	690.90	19.51
26 09 23 00-0343		Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0344	EA	One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH).....	531.29	19.51
26 09 23 00-0345	EA	Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH).....	690.90	19.51
26 09 23 00-0346	EA	One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH).....	690.90	19.51
26 09 23 00-0347	EA	Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH).....	870.46	19.51
26 09 23 00-0348	EA	One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH).....	690.90	19.51
26 09 23 00-0349	EA	One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH).....	870.46	19.51
26 09 23 00-0350		Output Switch Closure Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0351	EA	Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	531.29	19.51
26 09 23 00-0352	EA	Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	690.90	19.51
26 09 23 00-0353	EA	Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH).....	870.46	19.51
26 09 23 00-0354		Accessories For Tabletop Wireless Transmitter (26 09 23 00-0319)		
26 09 23 00-0355	EA	Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH).....	112.32	19.51
26 09 23 00-0356		Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0318)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0357 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH).....	491.39	19.51
26 09 23 00-0358 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	531.29	19.51
26 09 23 00-0359 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH).....	531.29	19.51
26 09 23 00-0360 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	531.29	19.51
26 09 23 00-0361 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....	531.29	19.51
26 09 23 00-0362 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	531.29	19.51
26 09 23 00-0363 Interfaces For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0364 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	491.39	19.51
26 09 23 00-0365 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	491.39	19.51
26 09 23 00-0366 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....	491.39	19.51
26 09 23 00-0367 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8).....	998.15	19.51
26 09 23 00-0368 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232).....	1,429.09	19.51
26 09 23 00-0369 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI).....	1,429.09	19.51
26 09 23 00-0370 Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0371 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW).....	631.05	19.51
26 09 23 00-0372 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....	710.85	19.51
26 09 23 00-0373 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....	830.56	19.51
26 09 23 00-0374 AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0318)		
26 09 23 00-0375 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC).....	930.31	19.51
26 09 23 00-0376 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....	1,279.46	19.51
26 09 23 00-0377 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)		
26 09 23 00-0378 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0377)		
26 09 23 00-0379 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS).....	143.87	26.02
26 09 23 00-0380 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....	169.27	26.02
26 09 23 00-0381 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....	263.94	26.02
26 09 23 00-0382 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS).....	101.49	26.02
26 09 23 00-0383 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277).....	123.68	26.02
26 09 23 00-0384 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS).....	110.81	26.02
26 09 23 00-0385 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277).....	133.45	26.02
26 09 23 00-0386 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0377)		
26 09 23 00-0387 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M).....	138.01	26.02
26 09 23 00-0388 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....	149.73	26.02
26 09 23 00-0389 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120).....	179.04	26.02
26 09 23 00-0390 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120).....	192.04	32.52
26 09 23 00-0391 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....	236.67	26.02
26 09 23 00-0392 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	78.90	26.02
26 09 23 00-0393 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....	95.02	26.02
26 09 23 00-0394 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD).....	84.78	26.02
26 09 23 00-0395 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277).....	100.88	26.02
26 09 23 00-0396 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV).....	266.90	45.53
26 09 23 00-0397 Removal And Reinstallation Of Occupancy Sensors (26 09 23)		
26 09 23 00-0398 EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor.....	87.81	
26 09 23 00-0399 EA Removal And Reinstallation Of Wall Mounted Occupancy Sensor.....	58.53	
26 09 23 00-0400 Occupancy Sensors (Watt Stopper) (26 09 23)		
Note: Includes testing of new devices and certification.		

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0401	Occupancy Sensors (26 09 23 00-0400) Note: Exclude boxes.			
26 09 23 00-0402	Wall Switch Mounted Occupancy Sensors (26 09 23 00-0401)			
26 09 23 00-0403	Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0402)			
26 09 23 00-0404	EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100).....	149.44	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0405	EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200).....	176.77	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0406	Passive Infrared, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0402)			
26 09 23 00-0407	EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100).....	123.01	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0408	EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS).....	114.73	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0409	EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100).....	130.19	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0410	EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200).....	151.09	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0411	EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD).....	149.37	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0412	Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors (26 09 23 00-0402)			
26 09 23 00-0413	EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100).....	218.39	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0414	EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200).....	235.68	13.01	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81		
26 09 23 00-0415	Wall Switch Mounted Occupancy Sensor Accessories (26 09 23 00-0402)			
26 09 23 00-0416	EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	8.15	3.25	
26 09 23 00-0417	EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	9.53	3.25	
26 09 23 00-0418	EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP).....	9.53	3.25	
26 09 23 00-0419	Ceiling Mounted Occupancy Sensors (26 09 23 00-0401)			
26 09 23 00-0420	Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)			
26 09 23 00-0421	25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0420)			
26 09 23 00-0422	EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A).....	195.34	29.27	
26 09 23 00-0423	EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A).....	225.07	29.27	
26 09 23 00-0424	EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A).....	255.02	29.27	
26 09 23 00-0425	EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H).....	252.31	29.27	
26 09 23 00-0426	32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0420)			
26 09 23 00-0427	EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605).....	212.94	29.27	
26 09 23 00-0428	EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105).....	243.09	29.27	
26 09 23 00-0429	EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205).....	271.64	29.27	
26 09 23 00-0430	EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255).....	276.47	29.27	
26 09 23 00-0431	EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600).....	230.96	29.27	
26 09 23 00-0432	EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100).....	261.86	29.27	
26 09 23 00-0433	EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200).....	292.64	29.27	
26 09 23 00-0434	EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	301.51	29.27	
26 09 23 00-0435	40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0420)			
26 09 23 00-0436	EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	221.65	29.27	
26 09 23 00-0437	EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	257.67	29.27	
26 09 23 00-0438	EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	287.82	29.27	
26 09 23 00-0439	EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	208.38	29.27	
26 09 23 00-0440	EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	253.77	29.27	
26 09 23 00-0441	EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	268.48	29.27	



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0442	EA	500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	223.52	29.27
26 09 23 00-0443	EA	1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	249.66	29.27
26 09 23 00-0444	EA	2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	281.94	29.27
26 09 23 00-0445		Passive Infrared, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)		
26 09 23 00-0446	EA	30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	160.64	29.27
26 09 23 00-0447	EA	HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	164.15	29.27
26 09 23 00-0448	EA	Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	172.47	29.27
26 09 23 00-0449	EA	Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	194.78	29.27
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0450	EA	Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	197.49	29.27
26 09 23 00-0451	EA	Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	209.16	29.27
26 09 23 00-0452	EA	Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	227.84	29.27
26 09 23 00-0453		Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)		
26 09 23 00-0454	EA	1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	271.39	29.27
26 09 23 00-0455	EA	1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	310.92	29.27
26 09 23 00-0456	EA	1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	263.00	29.27
26 09 23 00-0457		Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0401)		
26 09 23 00-0458		Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0457)		
26 09 23 00-0459	EA	120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	334.60	29.27
26 09 23 00-0460	EA	2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	334.60	29.27
26 09 23 00-0461		Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0457)		
26 09 23 00-0462	EA	2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	310.92	29.27
26 09 23 00-0463		Occupancy Sensor Power Packs (26 09 23 00-0400)		
26 09 23 00-0464		Single Voltage, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0465	EA	220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	107.31	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0466	EA	347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	97.27	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0467		Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0468	EA	120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	89.00	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0469		Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0463)		
26 09 23 00-0470	EA	120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	119.27	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0471		Form C, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0472	EA	120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	107.77	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0473	EA	277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P).....	107.85	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0474		Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0463)		
26 09 23 00-0475	EA	120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P).....	136.87	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0476	EA	277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P).....	138.86	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0477		Occupancy Sensor Power Supplies (26 09 23 00-0463)		
26 09 23 00-0478	EA	120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150).....	119.83	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0479	EA	277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277).....	283.99	26.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 09 23 00-0480	Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0463)				
26 09 23 00-0481	EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	377.31		26.02	
26 09 23 00-0482	DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0463)				
26 09 23 00-0483	EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	118.13		26.02	
26 09 23 00-0484	Occupancy Sensor Accessories (26 09 23 00-0400)				
26 09 23 00-0485	Protective Cages For Occupancy Sensors (26 09 23 00-0484)				
26 09 23 00-0486	EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	68.81		9.75	
26 09 23 00-0487	Mounting Brackets For Occupancy Sensors (26 09 23 00-0484)				
26 09 23 00-0488	EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB).....	52.21		16.26	
Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.					
26 09 23 00-0489	Occupancy/Lighting Logger (26 09 23 00-0484)				
Note: Logs when a space is occupied/vacant and when lighting is on/off.					
26 09 23 00-0490	EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	514.01		55.29	
26 09 23 00-0491	Digital Time Light Switches (26 09 23 00-0400)				
26 09 23 00-0492	EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	110.81		13.01	
26 09 23 00-0493	Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (26 09 23 00-0400)				
26 09 23 00-0494	EA Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (Watt Stopper FSP-211).....	241.10		42.28	
26 09 23 00-0495	Occupancy Sensors (Sensor Switch) (26 09 23)				
Note: Includes testing of new devices and certification.					
26 09 23 00-0496	Occupancy Sensors (Sensor Switch) (26 09 23 00-0495)				
Note: Exclude boxes					
26 09 23 00-0497	Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)				
26 09 23 00-0498	Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497)				
26 09 23 00-0499	EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	225.53		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Low Voltage Relay Option, Add		18.14			
26 09 23 00-0500	EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL).....	159.03		13.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.81			
26 09 23 00-0501	EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD).....	151.71		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Photocell (Inhibit Mode Only) Option, Add		18.14			
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.81			
26 09 23 00-0502	EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	151.71		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Photocell (Inhibit Mode Only) Option, Add		18.14			
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.81			
26 09 23 00-0503	EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P).....	192.28		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Photocell (Inhibit Mode Only) Option, Add		18.14			
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.81			
26 09 23 00-0504	EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	192.28		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Photocell (Inhibit Mode Only) Option, Add		18.14			
26 09 23 00-0505	EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	233.86		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Photocell (Inhibit Mode Only) Option, Add		18.14			
26 09 23 00-0506	EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD).....	192.28		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Photocell (Inhibit Mode Only) Option, Add		18.14			
26 09 23 00-0507	Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497)				
Note: Includes passive infrared and microphonics detection					
26 09 23 00-0508	EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	292.03		13.01	
For Low Temp/High Humidity Option, Add		15.11			
For Low Voltage Relay Option, Add		18.14			
26 09 23 00-0509	EA Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL).....	225.53		13.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.81			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0510	EA		Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT)	220.56	13.01
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81	
26 09 23 00-0511	EA		2-Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA)	220.56	13.01
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81	
26 09 23 00-0512	EA		2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P)	258.78	13.01
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81	
26 09 23 00-0513	EA		Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT)	258.78	13.01
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
26 09 23 00-0514	EA		2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P)	278.73	13.01
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
26 09 23 00-0515 Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch) (26 09 23 00-0497)					
26 09 23 00-0516	EA		One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX)	19.80	3.25
26 09 23 00-0517	EA		One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX)	19.80	3.25
26 09 23 00-0518	EA		Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3)	39.75	3.25
26 09 23 00-0519	EA		Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3)	39.75	3.25
26 09 23 00-0520 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)					
26 09 23 00-0521 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch) (26 09 23 00-0520)					
Note: One photocell or dimming option per occupancy sensor					
26 09 23 00-0522	EA		Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9)	258.04	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0523	EA		Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9)	258.04	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0524	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9)	258.04	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0525	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9)	274.67	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0526	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9)	274.67	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0527	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)	221.46	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0528	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P)	341.17	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Photocell Option With Dual Zone On/Off, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	

26 Electrical**26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
26 09 23 00-0529	EA	2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P).....	341.17		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Photocell Option With Dual Zone On/Off, Add	45.34			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56			
26 09 23 00-0530	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P).....	287.97		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Photocell Option With Dual Zone On/Off, Add	45.34			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56			
26 09 23 00-0531	EA	Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10).....	258.04		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Low Voltage Relay Option, Add	18.14			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Occupancy Controlled Dimming Option, Add	30.23			
		For Photocell Option With Dimming Capability, Add	45.34			
26 09 23 00-0532	EA	Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10).....	258.04		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Low Voltage Relay Option, Add	18.14			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Occupancy Controlled Dimming Option, Add	30.23			
		For Photocell Option With Dimming Capability, Add	45.34			
26 09 23 00-0533	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10).....	258.04		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Low Voltage Relay Option, Add	18.14			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Occupancy Controlled Dimming Option, Add	30.23			
		For Photocell Option With Dimming Capability, Add	45.34			
26 09 23 00-0534	EA	Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	274.67		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Occupancy Controlled Dimming Option, Add	30.23			
		For Photocell Option With Dimming Capability, Add	45.34			
26 09 23 00-0535	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10).....	274.67		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Occupancy Controlled Dimming Option, Add	30.23			
		For Photocell Option With Dimming Capability, Add	45.34			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56			
26 09 23 00-0536	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10).....	221.46		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Occupancy Controlled Dimming Option, Add	30.23			
		For Photocell Option With Dimming Capability, Add	45.34			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56			
26 09 23 00-0537	EA	2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P).....	341.17		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Photocell Option With Dual Zone On/Off, Add	45.34			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56			
26 09 23 00-0538	EA	2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P).....	341.17		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Photocell Option With Dual Zone On/Off, Add	45.34			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56			
26 09 23 00-0539	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P).....	287.97		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Photocell Option With Dual Zone On/Off, Add	45.34			
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56			
26 09 23 00-0540		Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch) ^(26 09 23 00-0520) Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection				
26 09 23 00-0541	EA	Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	324.54		29.27	
		For Low Temp/High Humidity Option, Add	15.11			
		For Low Voltage Relay Option, Add	18.14			
		For Photocell (Inhibit Mode Only) Option, Add	18.14			
		For Occupancy Controlled Dimming Option, Add	30.23			
		For Photocell Option With Dimming Capability, Add	45.34			



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0542	EA		Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	324.54	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0543	EA		Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	324.54	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0544	EA		Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	307.92	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0545	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	307.92	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0546	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	254.71	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0547	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	374.42	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Photocell Option With Dual Zone On/Off, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0548	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	374.42	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Photocell Option With Dual Zone On/Off, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0549	EA		2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	321.22	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Photocell Option With Dual Zone On/Off, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0550	EA		Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	324.54	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0551	EA		Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	324.54	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0552	EA		Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	324.54	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
26 09 23 00-0553	EA		Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	307.92	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0554	EA		Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	307.92	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0555	EA		Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	254.71	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Photocell Option With Dimming Capability, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0556	EA		2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	374.42	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Photocell Option With Dual Zone On/Off, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0557	EA		2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	374.42	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Photocell Option With Dual Zone On/Off, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0558	EA		2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	321.22	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Photocell Option With Dual Zone On/Off, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0559			Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)		
26 09 23 00-0560			Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)		
26 09 23 00-0561	EA		Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	258.04	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Ceiling Mount, Add	30.23	
26 09 23 00-0562	EA		Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	291.29	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Ceiling Mount, Add	30.23	
26 09 23 00-0563	EA		Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	357.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Ceiling Mount, Add	30.23	
26 09 23 00-0564	EA		Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	341.17	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Ceiling Mount, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0565	EA		2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	407.67	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Ceiling Mount, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0566			Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)		
			Note: Includes passive infrared and microphonics detection		
26 09 23 00-0567	EA		Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	324.54	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Ceiling Mount, Add	30.23	
26 09 23 00-0568	EA		Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	374.42	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Ceiling Mount, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0569	EA		2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	440.92	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell (Inhibit Mode Only) Option, Add	18.14	
			For Ceiling Mount, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0570			High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)		
26 09 23 00-0571			Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0570)		
26 09 23 00-0572	EA		Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	258.04	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell Option, Add	30.23	
			For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0573	EA		Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	258.04	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell Option, Add	30.23	
			For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0574	EA		Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	258.04	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Low Voltage Relay Option, Add	18.14	
			For Photocell Option, Add	30.23	
			For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0575	EA		Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	221.46	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Start To High, HID Option, Add	18.14	
			For Photocell Option, Add	30.23	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0576	EA		Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	221.46	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Start To High, HID Option, Add	18.14	
			For Photocell Option, Add	30.23	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0577	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	221.46	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Start To High, HID Option, Add	18.14	
			For Photocell Option, Add	30.23	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0578	EA		2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....	287.97	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0579	EA		2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....	287.97	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0580	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	287.97	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0581	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	244.74	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0582	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	244.74	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0583	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	244.74	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0584	EA		480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	244.74	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0585	EA		480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	244.74	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Photocell Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0586 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	244.74	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Photocell Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0587 EA Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	291.29	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Low Voltage Relay Option, Add	18.14	
For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0588 EA Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	291.29	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Low Voltage Relay Option, Add	18.14	
For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0589 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	291.29	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Low Voltage Relay Option, Add	18.14	
For Photocell Option, Add	30.23	
For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0590 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	354.47	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Start To High, HID Option, Add	18.14	
For Occupancy Controlled Dimming Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0591 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	354.47	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Start To High, HID Option, Add	18.14	
For Occupancy Controlled Dimming Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0592 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	354.47	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Start To High, HID Option, Add	18.14	
For Photocell Option, Add	30.23	
For Occupancy Controlled Dimming Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0593 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	311.24	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0594 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	311.24	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Photocell Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0595 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	261.36	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0596 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	261.36	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Photocell Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0597 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	261.36	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0598 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	261.36	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Photocell Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0599 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	291.29	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Low Voltage Relay Option, Add	18.14	
For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0600 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	291.29	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Low Voltage Relay Option, Add	18.14	
For Occupancy Controlled Dimming Option, Add	30.23	
26 09 23 00-0601 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	354.47	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Start To High, HID Option, Add	18.14	
For Occupancy Controlled Dimming Option, Add	30.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0602	EA		Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10)	354.47	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Start To High, HID Option, Add	18.14	
			For Occupancy Controlled Dimming Option, Add	30.23	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0603	EA		2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P)	341.17	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0604	EA		480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480)	307.92	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0605	EA		208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208)	307.92	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0606 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0495)					
26 09 23 00-0607	EA		Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20)	145.14	26.02
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0608	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P)	211.65	26.02
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0609	EA		Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20)	111.89	26.02
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0610	EA		2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20)	101.92	26.02
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0611	EA		20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20)	135.17	26.02
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0612	EA		120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH)	218.30	26.02
			For Low Temp/High Humidity Option, Add	15.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0613	EA		120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR)	218.30	26.02
			For Low Temp/High Humidity Option, Add	15.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0614	EA		120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM)	218.30	26.02
			For Low Temp/High Humidity Option, Add	15.11	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.61	
26 09 23 00-0615 Daylighting Control (Sensor Switch) (26 09 23 00-0495)					
26 09 23 00-0616	EA		Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Dual Zone Option, Add	45.34	
26 09 23 00-0617	EA		Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Dual Zone Option, Add	45.34	
26 09 23 00-0618	EA		Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Dual Zone Option, Add	45.34	
26 09 23 00-0619	EA		Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For 480 Volt AC Option, Add	21.16	
			For Dual Zone Option, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0620	EA		Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For 480 Volt AC Option, Add	21.16	
			For Dual Zone Option, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0621	EA		Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For 480 Volt AC Option, Add	21.16	
			For Dual Zone Option, Add	45.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0622	EA		Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Dual Zone Option, Add	45.34	
26 09 23 00-0623	EA		Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Dual Zone Option, Add	45.34	
26 09 23 00-0624	EA		Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC)	224.79	29.27
			For Low Temp/High Humidity Option, Add	15.11	
			For Dual Zone Option, Add	45.34	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0625 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	224.79	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0626 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	224.79	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0627 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	224.79	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0628 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	324.54	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
26 09 23 00-0629 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	324.54	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
26 09 23 00-0630 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	324.54	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
26 09 23 00-0631 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	324.54	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0632 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	324.54	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0633 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	324.54	29.27
For Low Temp/High Humidity Option, Add	15.11	
For Dual Zone Option, Add	45.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 09 23 00-0634 Occupancy Sensors (Sensor Switch nLight®) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0635 Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0634)		
Note: Excludes boxes.		
26 09 23 00-0636 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)		
26 09 23 00-0637 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0636)		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0638 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	350.66	13.01
26 09 23 00-0639 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)		
26 09 23 00-0640 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0639)		
Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0641 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	415.27	29.27
26 09 23 00-0642 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	415.27	29.27
26 09 23 00-0643 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	415.27	29.27
26 09 23 00-0644 Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0639)		
Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0645 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	486.61	29.27
26 09 23 00-0646 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	486.61	29.27
26 09 23 00-0647 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	504.42	29.27
26 09 23 00-0648 Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)		
26 09 23 00-0649 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0648)		
Note: Includes passive infrared and microphonics detection		



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0650	EA	Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16)	486.61	29.27	
26 09 23 00-0651		High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0635)			
26 09 23 00-0652		Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) (26 09 23 00-0651)			
26 09 23 00-0653	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6)	415.27	29.27	
26 09 23 00-0654		Occupancy Sensor Power Packs (Sensor Switch nLight®) (26 09 23 00-0634)			
26 09 23 00-0655	EA	150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150)	141.22	26.02	
26 09 23 00-0656	EA	250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250)	176.93	26.02	
26 09 23 00-0657	EA	30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO)	237.54	26.02	
26 09 23 00-0658	EA	System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16)	237.54	26.02	
26 09 23 00-0659		Occupancy Sensor Accessories (Sensor Switch nLight®) (26 09 23 00-0634)			
26 09 23 00-0660	EA	RS232 AV Integrator (Sensor Switch nLight® nIO X)	504.42	29.27	
26 09 23 00-0661	EA	8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT)	406.13	29.27	
26 09 23 00-0662		Daylighting Controls (Sensor Switch nLight®) (26 09 23 00-0634)			
26 09 23 00-0663	EA	Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC)	343.92	29.27	
26 09 23 00-0664		Controls (Sensor Switch nLight®) (26 09 23 00-0634)			
26 09 23 00-0665	EA	On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX)	226.20	29.27	
26 09 23 00-0666	EA	1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB)	326.11	29.27	
26 09 23 00-0667	EA	On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM)	754.17	29.27	
26 09 23 00-0668	EA	3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX)	754.17	29.27	
26 09 23 00-0669	EA	3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2)	2,823.25	29.27	
26 09 23 00-0670		Occupancy Sensors (Lutron) (26 09 23)			
		Note: Includes testing of new devices and certification.			
26 09 23 00-0671		Wireless Occupancy Sensors (26 09 23 00-0670)			
26 09 23 00-0672	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH)	168.29	29.27	
26 09 23 00-0673	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH)	175.67	29.27	
26 09 23 00-0674	EA	Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH)	170.04	29.27	
26 09 23 00-0675	EA	Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH)	179.80	29.27	
26 09 23 00-0676	EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH)	172.23	29.27	
26 09 23 00-0677	EA	Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH)	179.80	29.27	
26 09 23 00-0678	EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH)	168.29	29.27	
26 09 23 00-0679	EA	Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH)	172.23	29.27	
26 09 23 00-0680	EA	Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V)	170.04	29.27	
26 09 23 00-0681	EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH)	261.89	29.27	
26 09 23 00-0682	EA	Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH)	279.39	29.27	
26 09 23 00-0683	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH)	318.75	29.27	
26 09 23 00-0684	EA	Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH)	336.25	29.27	
26 09 23 00-0685	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH)	345.00	29.27	
26 09 23 00-0686	EA	Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH)	362.49	29.27	
26 09 23 00-0687	EA	Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH)	206.78	29.27	
26 09 23 00-0688	EA	Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH)	218.15	29.27	
26 09 23 00-0689	EA	Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH)	255.33	29.27	
26 09 23 00-0690	EA	Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH)	283.76	29.27	
26 09 23 00-0691	EA	Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH)	305.63	29.27	
26 09 23 00-0692	EA	Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH)	264.08	29.27	
26 09 23 00-0693	EA	Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH)	242.84	29.27	
26 09 23 00-0694	EA	Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH)	203.32	29.27	
26 09 23 00-0695	EA	Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH)	249.92	29.27	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0696 EA Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C)	303.15	29.27
26 09 23 00-0697 EA Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H)	321.68	29.27
26 09 23 00-0698 EA Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K)	321.68	29.27
26 09 23 00-0699 EA Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W)	321.68	29.27
26 09 23 00-0700 EA Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V)	338.65	29.27
26 09 23 00-0701 EA Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W)	549.11	42.28
26 09 23 00-0702 Nodes And Modules (26 09 23 00-0670)		
26 09 23 00-0703 EA 0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C)	272.83	29.27
26 09 23 00-0704 EA 0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J)	272.83	29.27
26 09 23 00-0705 EA 4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C)	345.00	29.27
26 09 23 00-0706 EA 4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J)	345.00	29.27
26 09 23 00-0707 EA 120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH)	441.17	32.52
26 09 23 00-0708 EA 120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH)	441.17	32.52
26 09 23 00-0709 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH)	535.21	32.52
26 09 23 00-0710 EA 120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH)	548.33	32.52
26 09 23 00-0711 EA 120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH)	677.36	32.52
26 09 23 00-0712 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH)	718.91	32.52
26 09 23 00-0713 EA 120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH)	760.47	32.52
26 09 23 00-0714 EA 1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2)	2,055.91	52.04
26 09 23 00-0715 EA 2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4)	2,019.72	58.53
26 09 23 00-0716 EA 3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6)	2,962.18	65.04
26 09 23 00-0717 Other Accessories (26 09 23 00-0670)		
26 09 23 00-0718 EA Pico® Wireless Control Wallplate Adapter (Lutron® PJ)	43.63	
26 09 23 00-0719 EA Pico® Wireless Control (Lutron® PJ)	56.01	
26 09 23 00-0720 EA 4-Scene Wireless Remote Control (Lutron® GRX-IT-WH)	166.07	
26 09 23 00-0721 EA 8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH)	316.97	
26 09 23 00-0722 EA 4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL)	332.38	29.27
26 09 23 00-0723 EA seeTouch® QS Wallstation (Lutron® QSWS2)	421.02	29.27
26 09 23 00-0724 EA seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2)	421.02	29.27
26 09 23 00-0725 EA 120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S)	690.48	32.52
26 09 23 00-0726 EA 120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S)	946.36	32.52
26 09 23 00-0727 EA Control Interface (Lutron® QSE-CI-NWK-E)	1,138.86	29.27
26 09 23 00-0728 EA 1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S)	1,130.13	29.27
26 09 23 00-0729 EA 2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S)	1,512.85	29.27
26 09 23 00-0730 MLF 5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S)	2,473.13	908.53
26 09 23 00-0731 MLF 5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S)	3,347.91	908.53
26 09 23 00-0732 Fixture Mounted Occupancy Sensors (Leviton) (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0733 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW)	161.29	29.27
26 09 23 00-0734 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W)	141.17	29.27
26 09 23 00-0735 EA 120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW)	177.92	29.27
26 09 23 00-0736 EA 480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W)	141.17	29.27
26 09 23 00-0737 EA 120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT)	234.46	12.98
26 09 23 00-0738 Wireless Enabled Communication Devices For Streetlights (26 09 23)		
Note: Includes testing of new devices and certification.		
26 09 23 00-0739 Wireless Enabled Communication Nodes For Streetlights (Roam®) (26 09 23 00-0738)		
26 09 23 00-0740 EA 120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1)	357.26	
26 09 23 00-0741 EA 480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1)	499.95	
26 09 23 00-0742 Wireless Enabled Communication Devices For Streetlights (Roam®) (26 09 23 00-0738)		
26 09 23 00-0743 EA Retrofit Receptacle Kit (Roam® DUR103)	61.18	
Note: For adapting light fixtures for use with a NEMA locking type photocontrol.		
26 09 23 00-0744 EA Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127)	14,414.21	72.36
26 09 23 00-0745 Counter Mounted Consolets (26 09 23)		
26 09 23 00-0746 EA 20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24)	705.72	162.24
26 09 23 00-0747 Lighting Console And Stations (26 09 23)		
26 09 23 00-0748 EA 80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40)	5,089.65	162.24
For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add		110.19
For Lighting Console Case (ETC ColorSourcePart 11866), Add		1,174.91
26 09 23 00-0749 EA 10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2)	3,515.27	97.34



Electrical		26
Instrumentation and Control for Electrical Systems		26 09
Lighting Control Devices		26 09 23

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0750	Emergency Lighting Controls (26 09 23)		
26 09 23 00-0751	Emergency Lighting Control Units (Watt Stopper ELCU) (26 09 23 00-0750) Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.		
26 09 23 00-0752	EA DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100).....	255.49	32.52
26 09 23 00-0753	EA 1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200)	255.49	32.52
26 09 23 00-0754	Emergency Shunt Relays (Lighting Control & Design GR 2001™) (26 09 23 00-0750) Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.		
26 09 23 00-0755	EA 1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	413.33	45.53
26 09 23 00-0756	EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	564.30	52.04
26 09 23 00-0757	EA 2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual).....	761.59	58.53
	Note: Controls normal and emergency lighting from single-pole wall switch.		
26 09 23 00-0758	Photocells (26 09 23)		
26 09 23 00-0759	EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	101.05	
26 09 23 00-0760	EA Wired Photocell For Lighting Fixtures (Intermac® K4021C).....	230.54	
26 09 23 00-0761	Outdoor Lighting Motion Sensors (26 09 23)		
26 09 23 00-0762	EA 70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000).....	134.27	32.52
26 09 23 00-0763	EA 70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000)	146.82	32.52
26 09 23 00-0764	EA 30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR)	612.87	32.52
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 09 23 00-0765	Street Light Controls (26 09 23)		
26 09 23 00-0766	Photo Controls (26 09 23 00-0765)		
26 09 23 00-0767	EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014	106.22	
26 09 23 00-0768	EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	121.71	
26 09 23 00-0769	Connector Node (26 09 23 00-0765)		
26 09 23 00-0770	EA Outdoor Lighting Connector Node (Phillips City Touch LLC7260).....	554.57	3.44
26 10 Medium-Voltage Electrical Distribution (26)			
26 11 Substations (26 10)			
26 11 13 Primary Unit Substations (26 11)			
26 11 13 00-0001	"Switchyard" Substation Primary Incoming Section (26 11 13)		
26 11 13 00-0002	Outdoor Oil Circuit Breakers "Switchyard" (26 11 13 00-0001) Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment		
26 11 13 00-0003	EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	69,555.44	2,253.74
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,375.44	
26 11 13 00-0004	EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	85,320.04	2,850.31
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,719.30	
26 11 13 00-0005	EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	96,689.89	2,850.31
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,719.30	
26 11 13 00-0006	EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	111,203.81	2,850.31
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,833.92	
26 11 13 00-0007	EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	126,156.38	3,513.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,116.07	
26 11 13 00-0008	Accessories For Outdoor Oil Circuit Breakers (26 11 13 00-0001)		
26 11 13 00-0009	EA Reclosure Relay, Adjustable, 3 Shot, #179	1,890.67	237.20
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.45	
26 11 13 00-0010	EA Overcurrent Relay, 1 Phase, #51/51N.....	591.28	171.97
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.68	
26 11 13 00-0011	EA Directional Overcurrent Relay, Three-Phase, Device No. 67.....	889.68	171.97
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	116.72	
26 11 13 00-0012	EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase.....	703.44	171.97
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.68	
26 11 13 00-0013	EA Differential Relay Package, Complete, Device No. 87	2,631.40	581.15
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	350.91	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 11 13 00-0014 "Switchyard", Substation Transformer Section (26 11 13)				
Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range				
26 11 13 00-0015 14.4 KV Nominal Primary (26 11 13 00-0014)				
26 11 13 00-0016	EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	39,974.92		2,253.74
	For 50 Hz Operation, Add	4,246.81		
	For Forced Air-Cooling, Add	4,246.81		
	For External Control Panel, Add	1,061.70		
	For Internally Mounted Current Transformers And Linear Couplers, Add	353.90		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,769.51		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,423.76		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,308.52		
26 11 13 00-0017	EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	45,684.96		2,823.80
	For 50 Hz Operation, Add	4,794.47		
	For Forced Air-Cooling, Add	4,794.47		
	For External Control Panel, Add	1,198.62		
	For Internally Mounted Current Transformers And Linear Couplers, Add	399.54		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,997.70		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,994.24		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,993.09		
26 11 13 00-0018	EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	70,321.06		3,977.19
	For 50 Hz Operation, Add	7,460.43		
	For Forced Air-Cooling, Add	7,460.43		
	For External Control Panel, Add	1,865.11		
	For Internally Mounted Current Transformers And Linear Couplers, Add	621.70		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,108.51		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,771.29		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,325.54		
26 11 13 00-0019	EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	101,979.39		4,777.42
	For 50 Hz Operation, Add	11,001.02		
	For Forced Air-Cooling, Add	11,001.02		
	For External Control Panel, Add	2,750.25		
	For Internally Mounted Current Transformers And Linear Couplers, Add	916.75		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,583.76		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,459.39		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,751.27		
26 11 13 00-0020	EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	125,630.28		6,182.55
	For 50 Hz Operation, Add	13,530.00		
	For Forced Air-Cooling, Add	13,530.00		
	For External Control Panel, Add	3,382.50		
	For Internally Mounted Current Transformers And Linear Couplers, Add	1,127.50		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,637.50		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	14,093.75		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	16,912.50		
26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)				
26 11 13 00-0022	EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	44,661.02		3,049.18
	For 50 Hz Operation, Add	4,671.60		
	For External Control Panel, Add	1,167.90		
	For Internally Mounted Current Transformers And Linear Couplers, Add	389.30		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,946.50		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,866.25		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,839.50		
	For Forced Air-Cooling, Add	3,114.40		
26 11 13 00-0023	EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	50,972.82		3,049.18
	For 50 Hz Operation, Add	5,286.28		
	For External Control Panel, Add	1,321.57		
	For Internally Mounted Current Transformers And Linear Couplers, Add	440.52		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,202.62		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,506.55		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,607.85		
	For Forced Air-Cooling, Add	3,524.19		
26 11 13 00-0024	EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	81,877.31		4,507.48
	For 50 Hz Operation, Add	8,724.92		
	For External Control Panel, Add	2,181.23		
	For Internally Mounted Current Transformers And Linear Couplers, Add	727.08		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,635.38		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,088.46		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,906.15		
	For Forced Air-Cooling, Add	5,816.62		
26 11 13 00-0025	EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	109,824.20		6,182.55
	For 50 Hz Operation, Add	11,633.27		
	For External Control Panel, Add	2,908.32		
	For Internally Mounted Current Transformers And Linear Couplers, Add	969.44		
	For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,847.19		
	For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,117.99		
	For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	14,541.58		
	For Forced Air-Cooling, Add	7,755.51		



Electrical		26
Medium-Voltage Electrical Distribution		26 10
Substations		26 11

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	136,167.70	6,182.55
For 50 Hz Operation, Add	14,794.49	
For External Control Panel, Add	3,698.62	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,232.87	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,164.37	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	15,410.92	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	18,493.11	
For Forced Air-Cooling, Add	9,862.99	
26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	56,095.17	3,645.76
For 50 Hz Operation, Add	5,900.97	
For External Control Panel, Add	1,475.24	
For Internally Mounted Current Transformers And Linear Couplers, Add	491.75	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,458.74	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,146.84	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,376.21	
For Forced Air-Cooling, Add	3,933.98	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	67,755.42	5,700.63
For 50 Hz Operation, Add	7,130.33	
For External Control Panel, Add	1,782.58	
For Internally Mounted Current Transformers And Linear Couplers, Add	594.19	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,970.97	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,427.43	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	8,912.91	
For Forced Air-Cooling, Add	4,753.55	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	93,653.93	5,700.63
For 50 Hz Operation, Add	9,863.03	
For External Control Panel, Add	2,465.76	
For Internally Mounted Current Transformers And Linear Couplers, Add	821.92	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,109.60	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,273.99	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,328.79	
For Forced Air-Cooling, Add	6,575.35	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	120,361.53	6,042.04
For 50 Hz Operation, Add	12,897.75	
For External Control Panel, Add	3,224.44	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,074.81	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,374.06	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	13,435.15	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	16,122.18	
For Forced Air-Cooling, Add	8,598.50	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	208,267.26	7,728.19
For 50 Hz Operation, Add	23,013.66	
For External Control Panel, Add	5,753.41	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,917.80	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	9,589.02	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	23,972.56	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	28,767.07	
For Forced Air-Cooling, Add	15,342.44	
26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	86,127.40	4,242.33
For 50 Hz Operation, Add	9,334.97	
For External Control Panel, Add	2,333.74	
For Internally Mounted Current Transformers And Linear Couplers, Add	777.91	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,889.57	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,723.92	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,668.71	
For Forced Air-Cooling, Add	6,223.31	
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	97,362.91	4,242.33
For 50 Hz Operation, Add	10,583.19	
For External Control Panel, Add	2,645.80	
For Internally Mounted Current Transformers And Linear Couplers, Add	881.93	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,409.66	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,024.16	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,228.99	
For Forced Air-Cooling, Add	7,055.46	
26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	134,928.92	5,700.63
For 50 Hz Operation, Add	14,816.03	
For External Control Panel, Add	3,704.01	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,234.67	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,173.34	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	15,433.36	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	18,520.03	
For Forced Air-Cooling, Add	9,877.35	
26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled	164,846.74	7,728.19
For 50 Hz Operation, Add	17,803.19	
For External Control Panel, Add	4,450.80	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,483.60	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,418.00	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	18,544.99	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	22,253.99	
For Forced Air-Cooling, Add	11,868.80	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	234,676.03 26,182.71 6,545.68 2,181.89 10,909.46 27,273.65 32,728.38 17,455.14	7,728.19
26 11 13 00-0039 69 KV Nominal Primary (26 11 13 00-0014)		
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	124,110.66 13,792.92 3,448.23 1,149.41 5,747.05 14,367.63 17,241.16 9,195.28	4,507.48
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	142,502.38 15,724.84 3,931.21 1,310.40 6,552.02 16,380.04 19,656.05 10,483.23	5,700.63
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	196,039.09 22,149.25 5,537.31 1,845.77 9,228.85 23,072.13 27,686.56 14,766.16	5,700.63
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	207,501.05 22,921.71 5,730.43 1,910.14 9,550.71 23,876.78 28,652.14 15,281.14	7,728.19
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled For 50 Hz Operation, Add For External Control Panel, Add For Internally Mounted Current Transformers And Linear Couplers, Add For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add For Forced Air-Cooling, Add	271,983.57 30,659.61 7,664.90 2,554.97 12,774.84 31,937.10 38,324.52 20,439.74	7,728.19
26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV (26 11 13)		
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section 26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section	74,511.72 81,822.99 93,143.51 87,052.57 98,097.79 111,910.69 115,341.82 129,093.75 135,287.63	1,098.78 1,098.78 1,364.87 1,641.18 1,641.18 1,906.70 2,178.40 2,178.40 2,446.37
26 11 16 Secondary Unit Substations (26 11)		
26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)		
26 11 16 11-0001 Substation Primary Incoming Section (26 11 16 11)		
26 11 16 11-0002 Manual Transferring Fused Load Break Switches (26 11 16 11-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position..... 26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	41,279.33 47,643.01	1,613.53 1,613.53
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches (26 11 16 11-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch 26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch	58,396.54 62,538.06	1,613.53 1,613.53



Electrical			26
Medium-Voltage Electrical Distribution			26 10
Substations			26 11

26

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches (26 11 16 11-0001)				
26 11 16 11-0009	EA	Primary Lightning Arrestors Accessories, Secondary Distribution Section	21,923.22	
26 11 16 11-0010	EA	Key Interlock Accessories, Secondary Distribution Section	2,133.94	
26 11 16 11-0011 Oil Filled Substation Transformers (26 11 16 11)				
Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.				
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ (26 11 16 11-0011)				
26 11 16 11-0013	EA	75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	38,234.85	994.30
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,537.24	
		For Control Power Transformer On Fans And Auxiliary, Add	1,087.39	
		For Internal Mounted Current Transformer And Linear Coupler, Add	362.46	
26 11 16 11-0014	EA	112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	56,524.91	1,193.15
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,789.70	
		For Control Power Transformer On Fans And Auxiliary, Add	1,624.16	
		For Internal Mounted Current Transformer And Linear Coupler, Add	541.39	
26 11 16 11-0015	EA	150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	64,011.22	1,325.73
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	4,295.18	
		For Control Power Transformer On Fans And Auxiliary, Add	1,840.79	
		For Internal Mounted Current Transformer And Linear Coupler, Add	613.60	
26 11 16 11-0016	EA	225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	75,619.92	1,657.16
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	5,061.39	
		For Control Power Transformer On Fans And Auxiliary, Add	2,169.17	
		For Internal Mounted Current Transformer And Linear Coupler, Add	723.06	
26 11 16 11-0017	EA	300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	84,019.04	2,054.88
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	5,593.65	
		For Control Power Transformer On Fans And Auxiliary, Add	2,397.28	
		For Internal Mounted Current Transformer And Linear Coupler, Add	799.09	
26 11 16 11-0018	EA	500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	89,391.81	2,518.88
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	5,904.78	
		For Control Power Transformer On Fans And Auxiliary, Add	2,530.62	
		For Internal Mounted Current Transformer And Linear Coupler, Add	843.54	
26 11 16 11-0019	EA	750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	104,483.35	1,325.73
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,886.95	
		For Control Power Transformer On Fans And Auxiliary, Add	2,951.55	
		For Internal Mounted Current Transformer And Linear Coupler, Add	983.85	
26 11 16 11-0020	EA	1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	111,234.86	3,314.32
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	7,322.43	
		For Control Power Transformer On Fans And Auxiliary, Add	3,138.19	
		For Internal Mounted Current Transformer And Linear Coupler, Add	1,046.06	
26 11 16 11-0021	EA	1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	124,380.39	3,645.76
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	8,196.22	
		For Control Power Transformer On Fans And Auxiliary, Add	3,512.67	
		For Internal Mounted Current Transformer And Linear Coupler, Add	1,170.89	
26 11 16 11-0022	EA	2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	144,094.47	4,043.48
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	9,520.53	
		For Control Power Transformer On Fans And Auxiliary, Add	4,080.23	
		For Internal Mounted Current Transformer And Linear Coupler, Add	1,360.08	
26 11 16 11-0023	EA	2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	158,272.71	4,408.04
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	10,461.96	
		For Control Power Transformer On Fans And Auxiliary, Add	4,483.70	
		For Internal Mounted Current Transformer And Linear Coupler, Add	1,494.57	
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ (26 11 16 11-0011)				
26 11 16 11-0025	EA	75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	36,426.58	994.30
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,410.66	
		For Control Power Transformer On Fans And Auxiliary, Add	1,033.14	
		For Internal Mounted Current Transformer And Linear Coupler, Add	344.38	
26 11 16 11-0026	EA	112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	55,540.84	994.30
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,748.66	
		For Control Power Transformer On Fans And Auxiliary, Add	1,606.57	
		For Internal Mounted Current Transformer And Linear Coupler, Add	535.52	
26 11 16 11-0027	EA	150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	63,971.20	1,325.73
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	4,292.38	
		For Control Power Transformer On Fans And Auxiliary, Add	1,839.59	
		For Internal Mounted Current Transformer And Linear Coupler, Add	613.20	
26 11 16 11-0028	EA	225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	75,688.76	1,657.16
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	5,066.21	
		For Control Power Transformer On Fans And Auxiliary, Add	2,171.23	
		For Internal Mounted Current Transformer And Linear Coupler, Add	723.74	
26 11 16 11-0029	EA	300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	91,045.58	2,054.88
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,085.51	
		For Control Power Transformer On Fans And Auxiliary, Add	2,608.07	
		For Internal Mounted Current Transformer And Linear Coupler, Add	869.36	
26 11 16 11-0030	EA	500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	98,141.11	2,518.88
		For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,517.23	
		For Control Power Transformer On Fans And Auxiliary, Add	2,793.10	
		For Internal Mounted Current Transformer And Linear Coupler, Add	931.03	

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	108,523.45 7,169.76 3,072.75 1,024.25	3,049.18
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	118,194.29 7,809.59 3,346.97 1,115.66	3,314.32
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... <i>For Forced Air-Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add</i> <i>For Control Power Transformer On Fans And Auxiliary, Add</i> <i>For Internal Mounted Current Transformer And Linear Coupler, Add</i>	133,380.00 8,826.20 3,782.66 1,260.89	3,645.76
26 11 16 11-0034 Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)		
26 11 16 11-0035 EA Sudden Pressure Relay	10,986.10	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV)	21,811.14	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole).....	14,361.79	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	79,700.75	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout	74,567.99	
26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011)		
Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,477.56	1,436.32
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,477.56	1,436.32
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,477.56	1,436.32
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,477.56	1,436.32
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,477.56	1,436.32
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,477.56	1,436.32
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	8,477.56	1,436.32
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area	10,378.19	1,656.11
26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11)		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)		
Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	67,548.60	1,060.59
<i>For Gas Filled Transformers, Add</i>	39,256.46	
<i>For Single Phase Transformers, Deduct</i>	-1,635.69	
<i>For Dry Type Unit, Add</i>	14,606.15	
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	67,681.18	1,126.87
<i>For Gas Filled Transformers, Add</i>	39,256.46	
<i>For Single Phase Transformers, Deduct</i>	-1,635.69	
<i>For Dry Type Unit, Add</i>	14,619.41	
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	68,931.13	1,325.73
<i>For Gas Filled Transformers, Add</i>	39,767.80	
<i>For Single Phase Transformers, Deduct</i>	-1,656.99	
<i>For Dry Type Unit, Add</i>	14,846.67	
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	76,087.96	1,458.30
<i>For Gas Filled Transformers, Add</i>	43,902.82	
<i>For Single Phase Transformers, Deduct</i>	-1,829.28	
<i>For Dry Type Unit, Add</i>	16,389.36	
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	84,321.92	1,723.45
<i>For Gas Filled Transformers, Add</i>	48,525.02	
<i>For Single Phase Transformers, Deduct</i>	-2,021.88	
<i>For Dry Type Unit, Add</i>	18,137.20	
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	97,702.84	1,988.59
<i>For Gas Filled Transformers, Add</i>	56,235.39	
<i>For Single Phase Transformers, Deduct</i>	-2,343.14	
<i>For Dry Type Unit, Add</i>	21,017.36	
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	113,341.91	2,386.31
<i>For Gas Filled Transformers, Add</i>	65,141.57	
<i>For Single Phase Transformers, Deduct</i>	-2,714.23	
<i>For Dry Type Unit, Add</i>	24,362.51	
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	134,178.20	2,651.46
<i>For Gas Filled Transformers, Add</i>	77,325.17	
<i>For Single Phase Transformers, Deduct</i>	-3,221.88	
<i>For Dry Type Unit, Add</i>	28,882.85	
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	174,672.83	2,784.03
<i>For Gas Filled Transformers, Add</i>	101,462.86	
<i>For Single Phase Transformers, Deduct</i>	-4,227.62	
<i>For Dry Type Unit, Add</i>	37,759.86	
26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)		
Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	65,226.76	1,060.59
<i>For Gas Filled Transformers, Add</i>	37,863.36	
<i>For Single Phase Transformers, Deduct</i>	-1,577.64	
<i>For Dry Type Unit, Add</i>	14,095.35	



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Substations		26 11	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 11 16 11-0062	EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	67,681.18		1,126.87
	For Gas Filled Transformers, Add	39,256.46		
	For Single Phase Transformers, Deduct	-1,635.69		
	For Dry Type Unit, Add	14,619.41		
26 11 16 11-0063	EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	68,931.13		1,325.73
	For Gas Filled Transformers, Add	39,767.80		
	For Single Phase Transformers, Deduct	-1,656.99		
	For Dry Type Unit, Add	14,846.67		
26 11 16 11-0064	EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	76,087.96		1,458.30
	For Gas Filled Transformers, Add	43,902.82		
	For Single Phase Transformers, Deduct	-1,829.28		
	For Dry Type Unit, Add	16,389.36		
26 11 16 11-0065	EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	84,321.92		1,723.45
	For Gas Filled Transformers, Add	48,525.02		
	For Single Phase Transformers, Deduct	-2,021.88		
	For Dry Type Unit, Add	18,137.20		
26 11 16 11-0066	EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	97,702.84		1,988.59
	For Gas Filled Transformers, Add	56,235.39		
	For Single Phase Transformers, Deduct	-2,343.14		
	For Dry Type Unit, Add	21,017.36		
26 11 16 11-0067	EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	113,341.91		2,386.31
	For Gas Filled Transformers, Add	65,141.57		
	For Single Phase Transformers, Deduct	-2,714.23		
	For Dry Type Unit, Add	24,362.51		
26 11 16 11-0068	EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	134,178.20		2,651.46
	For Gas Filled Transformers, Add	77,325.17		
	For Single Phase Transformers, Deduct	-3,221.88		
	For Dry Type Unit, Add	28,882.85		
26 11 16 11-0069	EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	174,672.83		2,784.03
	For Gas Filled Transformers, Add	101,462.86		
	For Single Phase Transformers, Deduct	-4,227.62		
	For Dry Type Unit, Add	37,759.86		
26 11 16 11-0070	EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	191,888.71		2,916.60
	For Gas Filled Transformers, Add	111,633.31		
	For Single Phase Transformers, Deduct	-4,651.39		
	For Dry Type Unit, Add	41,515.53		
26 11 16 11-0071	EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	214,412.61		3,049.18
	For Gas Filled Transformers, Add	124,988.56		
	For Single Phase Transformers, Deduct	-5,207.86		
	For Dry Type Unit, Add	46,438.97		
26 11 16 11-0072	EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer	247,532.39		3,181.75
	For Gas Filled Transformers, Add	144,701.34		
	For Single Phase Transformers, Deduct	-6,029.22		
	For Dry Type Unit, Add	53,693.51		
26 11 16 11-0073	Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)			
26 11 16 11-0074	EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	72,618.47		1,193.15
	For Gas Filled Transformers, Add	42,139.30		
	For Single Phase Transformers, Deduct	-1,755.80		
	For Dry Type Unit, Add	15,689.71		
26 11 16 11-0075	EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	75,059.46		1,259.44
	For Gas Filled Transformers, Add	43,524.35		
	For Single Phase Transformers, Deduct	-1,813.51		
	For Dry Type Unit, Add	16,210.82		
26 11 16 11-0076	EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	80,188.08		1,458.30
	For Gas Filled Transformers, Add	46,362.89		
	For Single Phase Transformers, Deduct	-1,931.79		
	For Dry Type Unit, Add	17,291.39		
26 11 16 11-0077	EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	84,613.75		1,590.87
	For Gas Filled Transformers, Add	48,859.20		
	For Single Phase Transformers, Deduct	-2,035.80		
	For Dry Type Unit, Add	18,233.22		
26 11 16 11-0078	EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	96,444.53		1,856.02
	For Gas Filled Transformers, Add	55,639.49		
	For Single Phase Transformers, Deduct	-2,318.31		
	For Dry Type Unit, Add	20,772.35		
26 11 16 11-0079	EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	106,819.13		2,121.16
	For Gas Filled Transformers, Add	61,546.08		
	For Single Phase Transformers, Deduct	-2,564.42		
	For Dry Type Unit, Add	22,991.13		
26 11 16 11-0080	EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	124,692.80		2,518.88
	For Gas Filled Transformers, Add	71,793.02		
	For Single Phase Transformers, Deduct	-2,991.38		
	For Dry Type Unit, Add	26,827.88		
26 11 16 11-0081	EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	151,360.53		2,784.03
	For Gas Filled Transformers, Add	87,475.48		
	For Single Phase Transformers, Deduct	-3,644.81		
	For Dry Type Unit, Add	32,631.15		
26 11 16 11-0082	EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer	183,379.78		2,916.60
	For Gas Filled Transformers, Add	106,527.95		
	For Single Phase Transformers, Deduct	-4,438.66		
	For Dry Type Unit, Add	39,643.57		

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 11 Substations**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0083			Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt (26 11 16 11-0049)		
26 11 16 11-0084	EA		112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	72,618.47	1,193.15
			<i>For Gas Filled Transformers, Add</i>	42,139.30	
			<i>For Single Phase Transformers, Deduct</i>	-1,755.80	
			<i>For Dry Type Unit, Add</i>	15,689.71	
26 11 16 11-0085	EA		150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	75,059.46	1,259.44
			<i>For Gas Filled Transformers, Add</i>	43,524.35	
			<i>For Single Phase Transformers, Deduct</i>	-1,813.51	
			<i>For Dry Type Unit, Add</i>	16,210.82	
26 11 16 11-0086	EA		225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	80,188.08	1,458.30
			<i>For Gas Filled Transformers, Add</i>	46,362.89	
			<i>For Single Phase Transformers, Deduct</i>	-1,931.79	
			<i>For Dry Type Unit, Add</i>	17,291.39	
26 11 16 11-0087	EA		300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	84,613.75	1,590.87
			<i>For Gas Filled Transformers, Add</i>	48,859.20	
			<i>For Single Phase Transformers, Deduct</i>	-2,035.80	
			<i>For Dry Type Unit, Add</i>	18,233.22	
26 11 16 11-0088	EA		500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	96,444.53	1,856.02
			<i>For Gas Filled Transformers, Add</i>	55,639.49	
			<i>For Single Phase Transformers, Deduct</i>	-2,318.31	
			<i>For Dry Type Unit, Add</i>	20,772.35	
26 11 16 11-0089	EA		750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	93,398.12	2,121.16
			<i>For Gas Filled Transformers, Add</i>	53,493.47	
			<i>For Single Phase Transformers, Deduct</i>	-2,228.89	
			<i>For Dry Type Unit, Add</i>	20,038.51	
26 11 16 11-0090	EA		1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	97,120.82	2,518.88
			<i>For Gas Filled Transformers, Add</i>	55,249.84	
			<i>For Single Phase Transformers, Deduct</i>	-2,302.08	
			<i>For Dry Type Unit, Add</i>	20,762.05	
26 11 16 11-0091	EA		1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	119,770.94	2,784.03
			<i>For Gas Filled Transformers, Add</i>	68,521.73	
			<i>For Single Phase Transformers, Deduct</i>	-2,855.07	
			<i>For Dry Type Unit, Add</i>	25,681.44	
26 11 16 11-0092	EA		2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	142,435.50	2,916.60
			<i>For Gas Filled Transformers, Add</i>	81,961.38	
			<i>For Single Phase Transformers, Deduct</i>	-3,415.06	
			<i>For Dry Type Unit, Add</i>	30,635.83	
26 11 16 11-0093	EA		2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	159,445.85	3,049.18
			<i>For Gas Filled Transformers, Add</i>	92,008.50	
			<i>For Single Phase Transformers, Deduct</i>	-3,833.69	
			<i>For Dry Type Unit, Add</i>	34,346.29	
26 11 16 11-0094	EA		3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	187,609.30	3,181.75
			<i>For Gas Filled Transformers, Add</i>	108,747.49	
			<i>For Single Phase Transformers, Deduct</i>	-4,531.15	
			<i>For Dry Type Unit, Add</i>	40,510.43	
26 11 16 11-0095	EA		3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer	230,685.01	3,314.32
			<i>For Gas Filled Transformers, Add</i>	134,433.82	
			<i>For Single Phase Transformers, Deduct</i>	-5,601.41	
			<i>For Dry Type Unit, Add</i>	49,955.26	

26 12 Medium-Voltage Transformers (26 10)**26 12 13 Liquid-Filled, Medium-Voltage Transformers** (26 12)**26 12 13 00-0001 Removal And Relocation Of Transformers** (26 12 13)

26 12 13 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer	1,359.10	
26 12 13 00-0003	EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers	2,501.13	

26 12 13 00-0004 Single Phase Oil Filled Distribution Transformers (26 12 13)

Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.

26 12 13 00-0005 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA (26 12 13 00-0004)

26 12 13 00-0006	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	7,957.01	544.66
26 12 13 00-0007	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	9,518.01	680.82
26 12 13 00-0008	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	11,037.14	816.99
26 12 13 00-0009	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	14,325.92	1,021.24
26 12 13 00-0010	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	16,989.82	1,225.48
26 12 13 00-0011	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	23,875.43	1,429.73
26 12 13 00-0012	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase	28,270.67	1,702.06

26 12 13 00-0013 Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent Taps FCAN And FCBN. Rated To 5 KVA (26 12 13 00-0004)

26 12 13 00-0014	EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	7,957.01	544.66
26 12 13 00-0015	EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	9,706.60	680.82
26 12 13 00-0016	EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	11,037.14	816.99
26 12 13 00-0017	EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	14,325.92	1,021.24
26 12 13 00-0018	EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	16,989.82	1,225.48
26 12 13 00-0019	EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	21,936.98	1,429.73
26 12 13 00-0020	EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase	27,286.30	1,702.06



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 13 00-0021	Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0004)		
26 12 13 00-0022	EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,736.99	544.66
26 12 13 00-0023	EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,920.83	680.82
26 12 13 00-0024	EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,446.52	816.99
26 12 13 00-0025	EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,189.62	1,021.24
26 12 13 00-0026	EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,414.35	1,225.48
26 12 13 00-0027	EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	22,300.44	1,429.73
26 12 13 00-0028	EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	27,377.17	1,702.06
26 12 13 00-0029	Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0004)		
26 12 13 00-0030	EA 10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,758.50	544.66
26 12 13 00-0031	EA 15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,973.77	680.82
26 12 13 00-0032	EA 25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,205.02	816.99
26 12 13 00-0033	EA 37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,645.25	1,021.24
26 12 13 00-0034	EA 50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	19,167.14	1,225.48
26 12 13 00-0035	EA 75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	26,371.62	1,429.73
26 12 13 00-0036	EA 100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	33,949.41	1,702.06
26 12 13 00-0037	Transformer Platforms (26 12 13 00-0004)		
26 12 13 00-0038	EA Transformer Platforms, 75 - 167 KVA.....	5,331.54	919.79
26 12 13 00-0039	Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops FCBN Auto FCAN (26 12 13 00-0004)		
26 12 13 00-0040	EA 10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,690.01	544.66
26 12 13 00-0041	EA 15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,819.55	680.82
26 12 13 00-0042	EA 25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,206.33	816.99
26 12 13 00-0043	EA 37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,643.64	1,021.24
26 12 13 00-0044	EA 50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	19,302.74	1,293.56
26 12 13 00-0045	EA 75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	26,375.62	1,429.73
26 12 13 00-0046	EA 100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	33,949.41	1,702.06
26 12 13 00-0047	EA 167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	45,474.84	2,178.63
26 12 13 00-0048	EA 250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	58,116.40	2,927.54
26 12 13 00-0049	EA 333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	68,098.85	3,404.11
26 12 13 00-0050	EA 500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	86,930.68	3,676.45
26 12 13 00-0051	Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL (26 12 13 00-0004)		
26 12 13 00-0052	EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	7,957.01	666.93
26 12 13 00-0053	EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	9,518.01	833.60
26 12 13 00-0054	EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	11,036.58	999.32
26 12 13 00-0055	EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	14,327.23	1,252.31
26 12 13 00-0056	EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	16,988.57	1,500.13
26 12 13 00-0057	EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	23,873.72	1,747.13
26 12 13 00-0058	EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	28,270.67	2,084.14
26 12 13 00-0059	Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN (26 12 13 00-0004)		
26 12 13 00-0060	EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,957.01	666.93
26 12 13 00-0061	EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,706.60	833.60
26 12 13 00-0062	EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	11,036.58	999.32
26 12 13 00-0063	EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,327.23	1,252.31
26 12 13 00-0064	EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,988.57	1,500.13
26 12 13 00-0065	EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	21,935.27	1,747.13
26 12 13 00-0066	EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	27,286.30	2,084.14
26 12 13 00-0067	Primary 7.2 To 14.4 KV Ground Y (26 12 13 00-0004)		
26 12 13 00-0068	Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN (26 12 13 00-0067)		
26 12 13 00-0069	EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,304.02	544.66
26 12 13 00-0070	EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,490.71	680.82
26 12 13 00-0071	EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,632.67	816.99
26 12 13 00-0072	EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	11,331.85	1,021.24
26 12 13 00-0073	EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	14,236.93	1,225.48
26 12 13 00-0074	EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	22,855.35	1,429.73
26 12 13 00-0075	EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	26,263.08	1,702.06

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 12 13 00-0076	Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN (26 12 13 00-0067)	
26 12 13 00-0077	EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,803.98 544.66
26 12 13 00-0078	EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,862.09 680.82
26 12 13 00-0079	EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,346.93 816.99
26 12 13 00-0080	EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,760.37 1,021.24
26 12 13 00-0081	EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,451.15 1,225.48
26 12 13 00-0082	EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	19,997.98 1,429.73
26 12 13 00-0083	EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	23,405.71 1,702.06

26 12 16 Dry-Type, Medium-Voltage Transformers (26 12)

26 12 16 00-0001	Removal and Relocation of Transformers (26 12 16)	
26 12 16 00-0002	EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer	550.18
26 12 16 00-0003	EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer	2,445.23

26 12 19 Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers (26 12)

26 12 19 00-0001	Single Phase Pad Mounted Oil Filled Distribution Transformers (26 12 19) Note: Designed for residential and multi-family buildings. UL listed.	
26 12 19 00-0002	Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled (26 12 19 00-0001) Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.	
26 12 19 00-0003	Primary, 4.16/4.8 KV Ground Y Or Delta (26 12 19 00-0002) Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.	
26 12 19 00-0004	EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	19,112.04 662.86
26 12 19 00-0005	EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	20,724.78 795.44
26 12 19 00-0006	EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	24,724.13 928.01
26 12 19 00-0007	EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	30,735.75 994.30
26 12 19 00-0008	EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	34,957.42 1,060.59
26 12 19 00-0009	EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	45,742.75 1,392.02
26 12 19 00-0010	Factory Modifications Material Cost Only (26 12 19 00-0002)	
26 12 19 00-0011	EA Loadbreaker Current Limiting Fuse Factory Modifications	4,258.84
26 12 19 00-0012	EA Loadbreaker Oil Switch, 2 Position Factory Modifications	4,474.87
26 12 19 00-0013	EA Loadbreaker Inserts, Factory Modifications	4,922.35
26 12 19 00-0014	Distribution - Single Phase Multiple Building Transformer (26 12 19 00-0001) Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.	
26 12 19 00-0015	Primary, 4.16/4.8 KVA Ground Y Or Delta (26 12 19 00-0014) Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.	
26 12 19 00-0016	EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	24,262.45 662.86
26 12 19 00-0017	EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	27,219.85 662.86
26 12 19 00-0018	EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	29,166.72 908.12
26 12 19 00-0019	EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	36,604.60 908.12
26 12 19 00-0020	EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	41,124.25 1,193.15
26 12 19 00-0021	EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	49,284.12 1,193.15
26 12 19 00-0022	EA 250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	80,110.51 1,657.16
26 12 19 00-0023	Factory Modifications Material Cost Only (26 12 19 00-0014)	
26 12 19 00-0024	EA Loadbreaker Current Limiting Fuse Factory Modifications	5,678.45
26 12 19 00-0025	EA Lightning Arrestors, Factory Modifications	1,438.76
26 12 19 00-0026	EA Loadbreaker Oil Switch, 2 Position Factory Modifications	4,474.87
26 12 19 00-0027	EA Loop Feed Air Switch, Factory Modifications	7,283.23
26 12 19 00-0028	EA Loadbreaker Inserts (Two), Factory Modifications	1,944.25
26 12 19 00-0029	EA Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications	1,681.93



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0030	Primary, 12.47 KV Ground Y Or Delta (26 12 19 00-0014) Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.			
26 12 19 00-0031	EA	25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	26,355.30	662.86
26 12 19 00-0032	EA	37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	27,927.04	662.86
26 12 19 00-0033	EA	50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	28,892.97	908.12
26 12 19 00-0034	EA	75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	34,948.37	908.12
26 12 19 00-0035	EA	100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	44,583.21	1,193.15
26 12 19 00-0036	EA	167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	55,404.91	1,193.29
26 12 19 00-0037	EA	250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt	70,363.42	1,657.16
26 12 19 00-0038	Oil Filled Distribution Transformer Single Phase Cluster Mounted (26 12 19 00-0001) Note: Conventional type.			
26 12 19 00-0039	13.8/14.4 KV Ground Y Or Delta Primary 120/240V (26 12 19 00-0038) Note: 2.5 Taps FCBN and FCAN.			
26 12 19 00-0040	EA	10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	17,491.60	461.01
26 12 19 00-0041	EA	37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,574.83	648.29
26 12 19 00-0042	EA	50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	33,146.28	1,037.27
26 12 19 00-0043	EA	100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	59,971.46	1,037.27
26 12 19 00-0044	EA	167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	82,820.34	1,699.96
26 12 19 00-0045	EA	250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	111,744.24	1,699.96
26 12 19 00-0046	Oil Filled Distribution Transformer Single Phase (26 12 19 00-0001)			
26 12 19 00-0047	7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)			
26 12 19 00-0048	EA	10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	16,934.38	489.82
26 12 19 00-0049	EA	15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,471.29	489.82
26 12 19 00-0050	EA	25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,832.35	691.51
26 12 19 00-0051	EA	37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,018.43	691.51
26 12 19 00-0052	EA	50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	32,251.42	936.42
26 12 19 00-0053	EA	100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	58,548.40	1,440.65
26 12 19 00-0054	EA	167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	81,705.92	1,440.65
26 12 19 00-0055	EA	250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	110,024.01	1,800.81
26 12 19 00-0056	7.2 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)			
26 12 19 00-0057	EA	10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	16,934.38	489.82
26 12 19 00-0058	EA	15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,471.87	489.82
26 12 19 00-0059	EA	25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,832.35	691.51
26 12 19 00-0060	EA	37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,018.43	691.51
26 12 19 00-0061	EA	50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	32,251.42	936.42
26 12 19 00-0062	EA	75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	50,241.61	1,267.77
26 12 19 00-0063	EA	100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	58,548.40	1,267.77
26 12 19 00-0064	EA	167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	81,705.92	1,599.12
26 12 19 00-0065	EA	250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	110,024.01	1,800.81
26 12 19 00-0066	2.4 KV Primary, 277 Volt Secondary (26 12 19 00-0046)			
26 12 19 00-0067	EA	10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,682.98	489.82
26 12 19 00-0068	EA	15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	20,376.91	489.82
26 12 19 00-0069	EA	25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	24,091.67	691.51
26 12 19 00-0070	EA	37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	30,904.64	691.51
26 12 19 00-0071	EA	50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	35,569.47	936.42
26 12 19 00-0072	EA	75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	55,257.64	1,267.77
26 12 19 00-0073	EA	100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	64,659.06	1,267.77
26 12 19 00-0074	EA	167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	90,282.75	1,599.12
26 12 19 00-0075	EA	250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	121,650.92	1,800.81
26 12 19 00-0076	2.4 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)			
26 12 19 00-0077	EA	10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	16,934.38	489.82
26 12 19 00-0078	EA	15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,471.29	489.82
26 12 19 00-0079	EA	25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,832.35	940.89
26 12 19 00-0080	EA	37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,018.43	1,267.77
26 12 19 00-0081	EA	50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	32,251.42	936.42
26 12 19 00-0082	EA	75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	50,041.84	1,267.77
26 12 19 00-0083	EA	100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	58,536.97	1,267.77
26 12 19 00-0084	2.4 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)			
26 12 19 00-0085	EA	10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	16,934.38	489.82

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0086	EA	15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	18,471.29	489.82
26 12 19 00-0087	EA	25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	21,832.35	691.51
26 12 19 00-0088	EA	37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	28,018.43	691.51
26 12 19 00-0089	EA	50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	32,251.42	936.42
26 12 19 00-0090	EA	75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	50,041.84	1,267.77
26 12 19 00-0091	EA	100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase	58,536.97	1,267.77
26 12 19 00-0092		2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)		
26 12 19 00-0093	EA	10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	14,216.65	504.23
26 12 19 00-0094	EA	15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	15,401.88	561.85
26 12 19 00-0095	EA	25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	18,869.10	619.47
26 12 19 00-0096	EA	37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	23,832.17	864.39
26 12 19 00-0097	EA	50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	26,461.61	1,008.45
26 12 19 00-0098	EA	75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	37,079.67	1,181.33
26 12 19 00-0099	EA	100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	44,792.33	1,354.21
26 12 19 00-0100	EA	167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	71,067.38	1,728.78
26 12 19 00-0101	EA	250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	99,282.60	1,944.88
26 12 19 00-0102		3 Phase Pad Mounted Oil Filled Distribution Transformers (26 12 19)		
26 12 19 00-0103		Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt (26 12 19 00-0102)		
Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.				
26 12 19 00-0104	EA	112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	28,990.26	1,906.30
26 12 19 00-0105	EA	150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	36,482.65	2,042.47
26 12 19 00-0106	EA	225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	48,494.63	2,587.12
26 12 19 00-0107	EA	300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	63,370.74	3,267.96
26 12 19 00-0108	EA	500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	93,993.63	3,676.45
26 12 19 00-0109	EA	750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase	117,963.24	4,901.93
26 12 19 00-0110		Pad Mounted Commercial Type Distribution Transformers UL Listed (26 12 19)		
26 12 19 00-0111		Distribution 3 Phase Oil Filled Transformer (26 12 19 00-0110)		
Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.				
26 12 19 00-0112		Factory Modifications (26 12 19 00-0111)		
Note: For use with series 4100 3 phase transformers.				
26 12 19 00-0113	EA	Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification	3,248.18	
26 12 19 00-0114	EA	Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification	528.19	
26 12 19 00-0115	EA	Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification	2,112.76	
26 12 19 00-0116	EA	Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification	6,086.98	
26 12 19 00-0117	EA	Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification	745.68	
26 12 19 00-0118	EA	Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification	590.33	
26 12 19 00-0119		Accessories For Transformer Liquid Containment Area (26 12 19 00-0111)		
Note: Reinforced concrete curb with 6" slab.				
26 12 19 00-0120	EA	Containment Area For 75 KVA	8,350.46	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,601.00	
26 12 19 00-0121	EA	Containment Area For 112.5 KVA	8,350.46	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,601.00	
26 12 19 00-0122	EA	Containment Area For 150 KVA	8,350.46	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,601.00	
26 12 19 00-0123	EA	Containment Area For 225 KVA	8,350.46	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,601.00	
26 12 19 00-0124	EA	Containment Area For 300 KVA	8,341.86	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,598.42	
26 12 19 00-0125	EA	Containment Area For 500 KVA	8,341.86	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,598.42	
26 12 19 00-0126	EA	Containment Area For 750 KVA	8,428.86	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,598.42	
26 12 19 00-0127	EA	Containment Area For 1,000 KVA	9,690.30	2,401.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,598.42	
26 12 19 00-0128		Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL (26 12 19 00-0111)		
Note: Rated to 5 KVA.				
26 12 19 00-0129	EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	19,548.33	1,590.87
26 12 19 00-0130	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	21,412.52	1,590.87
26 12 19 00-0131	EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	22,655.33	1,590.87
26 12 19 00-0132	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	26,383.73	1,590.87
26 12 19 00-0133	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer	28,073.40	2,386.31



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Transformers		26 12	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0134	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	29,316.21	2,386.31
26 12 19 00-0135	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	44,229.81	2,386.31
26 12 19 00-0136	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	56,495.85	3,181.75
26 12 19 00-0137	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	72,652.25	3,181.75
26 12 19 00-0138 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL (26 12 19 00-0111)				
Note: Rated to 5 KVA.				
26 12 19 00-0139	EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	20,169.73	1,590.87
26 12 19 00-0140	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	22,655.33	1,590.87
26 12 19 00-0141	EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	23,276.73	1,590.87
26 12 19 00-0142	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	23,898.13	1,590.87
26 12 19 00-0143	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	28,073.40	2,386.31
26 12 19 00-0144	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	30,559.01	2,386.31
26 12 19 00-0145	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	44,229.81	2,386.31
26 12 19 00-0146	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	57,117.25	3,181.75
26 12 19 00-0147	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	72,652.25	3,181.75
26 12 19 00-0148 Primary 5 KV Or 15 KV, Secondary 277/480 Volt (26 12 19 00-0110)				
Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.				
26 12 19 00-0149	EA	150 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	69,224.41	2,096.93
26 12 19 00-0150	EA	225 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	75,447.82	2,475.47
26 12 19 00-0151	EA	300 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	84,493.99	3,025.58
26 12 19 00-0152	EA	500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	100,820.51	3,404.11
26 12 19 00-0153	EA	750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	124,505.19	3,583.17
26 12 19 00-0154	EA	1,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	149,725.46	5,235.53
26 12 19 00-0155	EA	1,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	176,465.51	5,923.17
26 12 19 00-0156	EA	2,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	221,433.07	6,808.24
26 12 19 00-0157	EA	2,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	245,369.10	7,148.64
26 12 19 00-0158	EA	3,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	258,391.70	7,965.91
26 12 19 00-0159	EA	3,750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, 3 Phase, Pad Mounted, Oil Filled, Commercial Type Distribution TransformersTransformer.....	297,643.67	8,510.57
26 12 19 00-0160 Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled (26 12 19 00-0110)				
26 12 19 00-0161	EA	1,500 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	127,973.89	5,908.11
26 12 19 00-0162	EA	2,000 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	157,855.40	6,794.36
26 12 19 00-0163	EA	2,500 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	179,950.21	7,151.90
26 12 19 00-0164	EA	3,000 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	190,812.51	7,993.34
26 12 19 00-0165	EA	3,750 KVA, 15 KV - 480 Volt, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	214,505.58	8,235.56
26 12 19 00-0166 Silicone Filled Distribution Transformers, 3 Phase (26 12 19 00-0110)				
Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.				
26 12 19 00-0167	EA	225 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	120,728.88	2,475.47
26 12 19 00-0168	EA	300 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	129,228.07	3,025.58
26 12 19 00-0169	EA	500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	151,546.07	3,404.11
26 12 19 00-0170	EA	750 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	184,217.96	3,583.17
26 12 19 00-0171	EA	1,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	219,839.16	5,235.53
26 12 19 00-0172	EA	1,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	280,373.81	5,923.17
26 12 19 00-0173	EA	2,000 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer.....	341,464.49	6,808.24

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 12 Medium-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 12 19 00-0174 EA 2,500 KVA Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase, Pad Mounted, Oil Filled, TransformersTransformer	391,281.70	7,148.64

26 13 Medium-Voltage Switchgear (26 10)**26 13 16 Medium-Voltage Fusible Interrupter Switchgear** (26 13)

26 13 16 00-0001	"Switchyard", Substation Secondary Distribution Section (26 13 16) Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
26 13 16 00-0002	4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0003 EA	1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	16,115.65	1,498.28
	For Weatherproofing, Add	3,335.35	
26 13 16 00-0004 EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	16,917.17	1,498.28
	For Weatherproofing, Add	3,511.68	
26 13 16 00-0005 EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	23,053.23	1,908.86
	For Weatherproofing, Add	4,818.97	
26 13 16 00-0006 EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	31,427.10	1,908.86
	For Weatherproofing, Add	6,629.09	
26 13 16 00-0007 EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	45,063.71	2,305.03
	For Weatherproofing, Add	9,590.79	
26 13 16 00-0008 EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	41,115.48	2,305.03
	For Weatherproofing, Add	8,705.86	
26 13 16 00-0009	7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0010 EA	1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	24,065.66	1,728.78
	For Weatherproofing, Add	5,062.62	
26 13 16 00-0011 EA	2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	29,548.19	2,160.97
	For Weatherproofing, Add	6,197.76	
26 13 16 00-0012 EA	3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	41,561.94	2,593.17
	For Weatherproofing, Add	8,789.78	
26 13 16 00-0013	13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0014 EA	1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	23,203.18	1,728.78
	For Weatherproofing, Add	4,853.84	
26 13 16 00-0015 EA	1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	31,955.46	1,728.78
	For Weatherproofing, Add	6,737.90	
26 13 16 00-0016 EA	1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	46,699.34	2,305.03
	For Weatherproofing, Add	9,934.31	
26 13 16 00-0017 EA	2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	59,367.26	2,305.03
	For Weatherproofing, Add	12,655.80	
26 13 16 00-0018 EA	2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	40,825.14	2,881.29
	For Weatherproofing, Add	8,968.38	
26 13 16 00-0019 EA	2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	59,367.26	2,881.29
	For Weatherproofing, Add	12,655.80	
26 13 16 00-0020 EA	3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	80,825.14	2,881.29
	For Weatherproofing, Add	8,608.03	
26 13 16 00-0021 EA	3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section	56,631.39	2,881.29
	For Weatherproofing, Add	12,043.90	
26 13 16 00-0022 EA	3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	73,423.22	2,881.29
	For Weatherproofing, Add	15,698.85	
26 13 16 00-0023	4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		
26 13 16 00-0024 EA	1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	7,226.80	943.63
	For Weatherproofing, Add	1,457.55	
26 13 16 00-0025 EA	1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	9,399.75	943.63
	For Weatherproofing, Add	1,935.60	
26 13 16 00-0026 EA	2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,189.89	1,253.36
	For Weatherproofing, Add	2,066.70	
26 13 16 00-0027 EA	2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,627.06	1,548.69
	For Weatherproofing, Add	2,561.08	
26 13 16 00-0028 EA	3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	17,024.94	1,548.69
	For Weatherproofing, Add	3,528.61	
26 13 16 00-0029	7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)		



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
Medium-Voltage Switchgear		26 13	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 13 16 00-0030	EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	9,145.54 1,861.28		1,440.65
26 13 16 00-0031	EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	11,966.86 2,439.52		1,440.65
26 13 16 00-0032	EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	18,264.25 3,783.06		1,440.65
26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)				
26 13 16 00-0034	EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	9,429.75 1,903.91		1,224.55
26 13 16 00-0035	EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	10,058.62 2,042.26		1,224.55
26 13 16 00-0036	EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	14,416.56 2,958.89		1,512.68
26 13 16 00-0037	EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	12,845.00 2,571.24		1,815.22
26 13 16 00-0038	EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	15,808.53 3,223.22		1,815.22
26 13 16 00-0039	EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	18,176.46 3,701.34		2,117.75
26 13 16 00-0040	EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	17,021.19 3,405.12		2,420.28
26 13 16 00-0041	EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	19,051.89 3,851.87		2,420.28
26 13 16 00-0042	EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section <i>For Weatherproofing, Add</i>	23,476.16 4,782.77		2,708.42
26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)				
26 13 16 00-0044	EA 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,585.18 547.77		912.93
26 13 16 00-0045	EA 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,732.92 607.87		1,013.06
26 13 16 00-0046	EA 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,483.85 731.29		1,218.79
26 13 16 00-0047	EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section	4,725.35		1,832.93
26 13 16 00-0048	EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	5,716.54		118.60
26 13 16 00-0049	EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	7,635.99		118.60
26 13 16 00-0050	EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	13,984.33		118.60
26 13 16 00-0051	EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	10,989.80		118.60
26 13 16 00-0052	EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	11,997.40		118.60
26 13 16 00-0053	EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	16,331.44		118.60
26 13 16 00-0054	EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	2,588.87		118.60
26 13 16 00-0055	EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	2,926.26		118.60
26 13 16 00-0056	EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section	4,445.41		118.60
26 13 16 00-0057	EA Overcurrent Phase Protection, Time And Instantaneous Device 67	2,845.11		118.60
26 13 16 00-0058	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA AC Ammeter With Switch	71.16 1,112.58		118.60
26 13 16 00-0059	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA AC Voltmeter With Switch And Potential Transformer	71.16 1,112.58		118.60
26 13 16 00-0060	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Indicating Wattmeter	71.16 1,645.10		118.60
26 13 16 00-0061	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Indicating Varmeter.....	71.16 1,940.55		118.60
26 13 16 00-0062	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Indicating Watt-hour Meter, 2 Element	71.16 1,218.36		118.60
26 13 16 00-0063	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Ground Protection, Time Or Instantaneous Device 67N.....	71.16 2,914.76		118.60
26 13 16 00-0064	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> EA Differential Generator Protection Single Phase NEMA Device 87	71.16 5,404.68		118.60
26 13 16 00-0065	EA Current Transformers 5 And 15 KV Single Secondary	754.22		118.60
26 13 16 00-0066	EA Potential Transformers 5 KV And 15 KV With Primary Fuses	3,606.51		118.60
26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)				
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)				
26 13 19 00-0002	EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	58,285.68		1,800.81
26 13 19 00-0003	EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	64,366.56		2,276.22
26 13 19 00-0004	EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	73,078.66		2,276.22
26 13 19 00-0005	EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	66,798.30		1,800.81
26 13 19 00-0006	EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	75,141.92		1,800.81
26 13 19 00-0007	EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	85,647.18		2,117.75
26 13 19 00-0008	EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	88,373.35		2,420.28
26 13 19 00-0009	EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	96,759.34		2,420.28
26 13 19 00-0010	EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	105,726.36		2,722.83
26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13)				

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 13 Medium-Voltage Switchgear**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0001		Substation Secondary Distribution Section (26 13 29) Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002		Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001) Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003	EA	800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	18,567.58	1,151.76
26 13 29 00-0004	EA	1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	29,314.41	1,741.35
26 13 29 00-0005	EA	2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	39,688.85	2,138.99
26 13 29 00-0006	EA	3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	65,978.18	2,481.76
26 13 29 00-0007	EA	4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	84,817.72	2,824.55
26 13 29 00-0008		Switchgear Compartment Without Circuit Breaker (26 13 29 00-0001)		
26 13 29 00-0009	EA	800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,218.47	349.64
26 13 29 00-0010	EA	1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	9,496.57	349.64
26 13 29 00-0011	EA	2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	12,424.56	514.18
26 13 29 00-0012	EA	3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	17,768.06	514.18
26 13 29 00-0013	EA	4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	29,676.21	754.13
26 13 29 00-0014		Switchgear Compartment, Blank, Use As Filler Or Metering (26 13 29 00-0001) Note: No provisions for future breaker.		
26 13 29 00-0015	EA	600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	8,347.82	390.78
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.45	
26 13 29 00-0016	EA	3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	10,497.22	390.78
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	262.31	
26 13 29 00-0017	EA	4,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	13,597.50	603.31
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	377.06	
26 13 29 00-0018		Accessories For Substation Secondary Distribution (26 13 29 00-0001)		
26 13 29 00-0019	EA	Short Time Delay Accessories, Secondary Distribution Section.....	4,679.63	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 13 29 00-0020	EA	Key Interlock Accessories, Secondary Distribution Section.....	3,612.64	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 13 29 00-0021	EA	Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	11,725.78	118.60
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 13 29 00-0022	EA	Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	11,725.78	118.60
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 13 29 00-0023	EA	Wattmeter - Complete Accessories, Secondary Distribution Section.....	15,550.84	118.60
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 13 29 00-0024	EA	Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....	20,181.17	118.60
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 13 29 00-0025	EA	Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	8,651.97	135.24
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.12	
26 13 29 00-0026	EA	Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	24,634.33	2,002.92
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,201.76	
26 13 29 00-0027	EA	Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800.....	5,243.32	118.60
26 13 29 00-0028	EA	Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	6,180.57	118.60
26 13 29 00-0029	EA	Shunt Trip And Auxilliary Switch Accessories, Secondary Distribution Section.....	3,306.15	59.30
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.58	
26 13 29 00-0030	EA	3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	25,381.90	118.60
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 13 29 00-0031	EA	3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....	3,145.09	59.30
26 18		Medium-Voltage Circuit Protection Devices (26 10)		
26 18 36		Medium-Voltage Enclosed Fuses (26 18)		
26 18 36 00-0001		Sectionalizing Switch (26 18 36)		
26 18 36 00-0002		Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001) Note: 15 KV - 25 KV.		
26 18 36 00-0003		Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002) Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004	EA	3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	77,211.77	994.30
26 18 36 00-0005	EA	3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	86,865.93	994.30
26 19		High-Voltage Circuit Protection (26 10)		
26 19 18		Protection Devices (26 19)		
26 19 18 00-0001		Primary Fuse Cutouts (26 19 18) Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 19 18 00-0002		Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 19 18 00-0001) Note: Includes the fuse and cutout switch.		
26 19 18 00-0003		8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0004	EA	15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	809.00	360.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
High-Voltage Circuit Protection		26 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 18 00-0005 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	953.07 216.10	360.16
26 19 18 00-0006 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,096.65 259.17	360.16
26 19 18 00-0007 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,118.85 259.33	360.16
26 19 18 00-0008 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,118.85 259.33	360.16
26 19 18 00-0009 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0010 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	809.00 172.88	288.13
26 19 18 00-0011 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0012 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	838.35 172.88	288.13
26 19 18 00-0013 Fuseholders (26 19 18 00-0002) Note: Including current limiting fuse.		
26 19 18 00-0014 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	685.29 172.88	360.16
26 19 18 00-0015 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	829.36 216.10	360.16
26 19 18 00-0016 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	972.94 259.17	360.16
26 19 18 00-0017 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	695.45 172.88	360.16
26 19 18 00-0018 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	839.52 216.10	360.16
26 19 18 00-0019 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	685.29 172.88	288.13
26 19 18 00-0020 Accessories (26 19 18 00-0002)		
26 19 18 00-0021 EA Hot Line Clamp..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	102.32 21.61	32.41
26 19 18 00-0022 EA Stirrup.....	111.63	32.41
26 19 18 00-0023 Loadbreak Current Limiting Primary Fuse Cutouts (26 19 18 00-0001) Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.		
26 19 18 00-0024 8.3 KV-95 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0025 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,037.54 172.88	360.16
26 19 18 00-0026 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,181.61 216.10	360.16
26 19 18 00-0027 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,325.19 259.17	360.16
26 19 18 00-0028 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,368.69 259.33	360.16
26 19 18 00-0029 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,368.69 259.33	360.16
26 19 18 00-0030 17.1 KV-95 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0031 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,037.54 172.88	288.13
26 19 18 00-0032 17.1 KV-125 KV BIL Loadbreak Current Limiting (26 19 18 00-0023)		
26 19 18 00-0033 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,037.54 172.88	288.13
26 19 18 00-0034 Fuseholders (26 19 18 00-0023) Note: Includes current limiting fuses.		
26 19 18 00-0035 EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	695.77 172.88	360.16
26 19 18 00-0036 EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	839.84 216.10	360.16
26 19 18 00-0037 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	983.42 259.17	360.16
26 19 18 00-0038 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	695.77 172.88	360.16
26 19 18 00-0039 Pole Mounted Capacitors (26 19 18 00-0023)		
26 19 18 00-0040 EA Capacitors - Pole Mounted 6 KVAR.....	1,883.49	290.43

26 Electrical**26 10 Medium-Voltage Electrical Distribution****26 19 High-Voltage Circuit Protection**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 19 80 Transmission and Distribution Accessories (26 19)**26 19 80 60 Structure Assemblies (26 19 80)****26 19 80 60-0001 Pole Structure Assemblies (26 19 80 60)****26 19 80 60-0002 5 KV Pole Structure Assemblies (26 19 80 60-0001)**

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0003	EA	Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	589.77	273.73
26 19 80 60-0004	EA	Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	985.41	461.01
26 19 80 60-0005	EA	Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,131.64	360.16
26 19 80 60-0006	EA	Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	647.91	187.28
26 19 80 60-0007	EA	Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	820.64	259.32
26 19 80 60-0008	EA	Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,431.60	518.63
26 19 80 60-0009	EA	Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,124.37	388.98
26 19 80 60-0010	EA	Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,050.60	777.95
26 19 80 60-0011	EA	Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,331.21	878.79
26 19 80 60-0012	EA	Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,275.69	432.19
26 19 80 60-0013	EA	Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,077.67	461.01
26 19 80 60-0014	EA	Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,020.05	936.42
26 19 80 60-0015	EA	Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,548.38	561.85
26 19 80 60-0016	EA	Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	963.91	403.38
26 19 80 60-0017	EA	Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,808.12	821.17
26 19 80 60-0018	EA	Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,429.63	417.78

26 19 80 60-0019 15 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0020	EA	Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	619.12	273.73
26 19 80 60-0021	EA	Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,027.34	461.01
26 19 80 60-0022	EA	Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,274.22	360.16
26 19 80 60-0023	EA	Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	698.23	187.28
26 19 80 60-0024	EA	Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	891.93	244.91
26 19 80 60-0025	EA	Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,574.18	518.63
26 19 80 60-0026	EA	Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,229.21	388.98
26 19 80 60-0027	EA	Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,264.47	777.95
26 19 80 60-0028	EA	Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,620.56	878.79
26 19 80 60-0029	EA	Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,418.27	432.19
26 19 80 60-0030	EA	Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,132.18	461.01
26 19 80 60-0031	EA	Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,074.56	936.42
26 19 80 60-0032	EA	Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,657.41	561.85
26 19 80 60-0033	EA	Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,018.42	388.98
26 19 80 60-0034	EA	Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,862.63	821.17
26 19 80 60-0035	EA	Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,538.66	504.23

26 19 80 60-0036 25 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0037	EA	Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,917.29	432.19
26 19 80 60-0038	EA	Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,177.12	216.10
26 19 80 60-0039	EA	Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,706.23	331.35
26 19 80 60-0040	EA	Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,227.90	677.10
26 19 80 60-0041	EA	Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,134.17	504.23
26 19 80 60-0042	EA	Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,431.11	994.04
26 19 80 60-0043	EA	Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,260.55	1,123.70
26 19 80 60-0044	EA	Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,295.00	655.49
26 19 80 60-0045	EA	Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,994.98	655.49

26 19 80 60-0046 50 KV Pole Structure Assemblies (26 19 80 60-0001)

Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.

26 19 80 60-0047	EA	Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,575.70	590.67
26 19 80 60-0048	EA	Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,403.18	302.53
26 19 80 60-0049	EA	Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	1,769.77	475.42
26 19 80 60-0050	EA	Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	3,321.48	965.23
26 19 80 60-0051	EA	Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,547.72	720.33
26 19 80 60-0052	EA	Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	4,889.96	1,440.65
26 19 80 60-0053	EA	Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	5,793.00	1,599.12
26 19 80 60-0054	EA	Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,956.39	777.95
26 19 80 60-0055	EA	Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,970.78	900.40
26 19 80 60-0056	EA	Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer	2,864.85	849.98

26 19 80 60-0057 Overhead To Underground Conversion Structures (26 19 80 60)

Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.

26 19 80 60-0058 5 KV Structures (26 19 80 60-0057)

Note: Excludes pole.

26 19 80 60-0059	EA	(3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,096.89	2,881.29
26 19 80 60-0060	EA	(3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles	6,096.89	2,881.29



Electrical		26	26
Medium-Voltage Electrical Distribution		26 10	
High-Voltage Circuit Protection		26 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 80 60-0061 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,096.89	2,881.29
26 19 80 60-0062 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,096.89	2,881.29
26 19 80 60-0063 15 KV Structures (26 19 80 60-0057) Note: Excludes pole.		
26 19 80 60-0064 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,294.20	2,881.29
26 19 80 60-0065 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,294.20	2,881.29
26 19 80 60-0066 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,294.20	2,881.29
26 19 80 60-0067 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,294.20	2,881.29
26 19 80 60-0068 25 KV Structures (26 19 80 60-0057) Note: Excludes pole.		
26 19 80 60-0069 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,509.46	2,881.29
26 19 80 60-0070 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,509.46	2,881.29
26 19 80 60-0071 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,509.46	2,881.29
26 19 80 60-0072 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,509.46	2,881.29
26 19 80 60-0073 Transformer Stations (26 19 80 60) Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
26 19 80 60-0074 5 KV Station (26 19 80 60-0073)		
26 19 80 60-0075 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	9,865.67	3,840.77
26 19 80 60-0076 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole.....	11,057.29	4,321.95
26 19 80 60-0077 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	12,248.92	4,801.67
26 19 80 60-0078 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole.....	12,248.92	4,801.67
26 19 80 60-0079 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole.....	9,865.67	3,840.77
26 19 80 60-0080 15 KV Stations (26 19 80 60-0073)		
26 19 80 60-0081 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	10,170.63	3,839.68
26 19 80 60-0082 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole.....	11,362.25	4,321.95
26 19 80 60-0083 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	12,553.88	4,801.67
26 19 80 60-0084 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole.....	12,553.88	4,801.67
26 19 80 60-0085 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole.....	10,170.63	3,840.77
26 19 80 60-0086 25 KV Stations (26 19 80 60-0073)		
26 19 80 60-0087 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	10,503.31	3,840.77
26 19 80 60-0088 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole.....	11,694.93	4,321.95
26 19 80 60-0089 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	12,886.56	4,801.67
26 19 80 60-0090 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole.....	12,886.56	4,801.67
26 19 80 60-0091 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole.....	10,503.31	3,840.77

26 20 Low-Voltage Electrical Distribution (26)

26 21 Low-Voltage Electrical Service Entrance (26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)

26 21 13 00-0001	Service Drop Cable And Weatherheads (26 21 13)			
26 21 13 00-0002	600 Volt Insulated Stranded Conductors (26 21 13 00-0001)			
26 21 13 00-0003	Aluminum Duplex ACSR Neutral (26 21 13 00-0002)			
26 21 13 00-0004	LF	#6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	9.38	3.43
26 21 13 00-0005	LF	#4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	11.37	4.05
26 21 13 00-0006	LF	#2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	13.56	4.57
26 21 13 00-0007	LF	1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	18.34	5.76
26 21 13 00-0008	Aluminum Triplex ACSR Neutral (26 21 13 00-0002)			
26 21 13 00-0009	LF	#6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	11.55	4.05
26 21 13 00-0010	LF	#4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	13.31	4.57
26 21 13 00-0011	LF	#2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	16.95	5.76
26 21 13 00-0012	LF	1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	21.42	7.03
26 21 13 00-0013	LF	2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	27.84	9.29
26 21 13 00-0014	LF	4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	35.79	11.53
26 21 13 00-0015	LF	336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	49.14	13.72
26 21 13 00-0016	Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)			
26 21 13 00-0017	LF	#6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	13.36	4.57
26 21 13 00-0018	LF	#4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	16.94	5.76
26 21 13 00-0019	LF	#2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	21.92	7.39

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 21 Low-Voltage Electrical Service Entrance**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0020	LF	1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	28.94	9.29	
26 21 13 00-0021	LF	2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	32.26	10.29	
26 21 13 00-0022	LF	3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	37.62	11.53	
26 21 13 00-0023	LF	4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	44.11	13.72	
26 21 13 00-0024	LF	336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable	56.72	15.16	
26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)					
26 21 13 00-0026	EA	1/2" Weatherproof Conduit Hubs	59.78	22.84	
26 21 13 00-0027	EA	3/4" Weatherproof Conduit Hubs	68.16	25.96	
26 21 13 00-0028	EA	1" Weatherproof Conduit Hubs	78.83	29.07	
26 21 13 00-0029	EA	1-1/4" Weatherproof Conduit Hubs	109.42	38.94	
26 21 13 00-0030	EA	1-1/2" Weatherproof Conduit Hubs	120.08	42.05	
26 21 13 00-0031	EA	2" Weatherproof Conduit Hubs	153.36	48.80	
26 21 13 00-0032	EA	2-1/2" Weatherproof Conduit Hubs	198.48	55.03	
26 21 13 00-0033	EA	3" Weatherproof Conduit Hubs	254.31	64.89	
26 21 13 00-0034	EA	4" Weatherproof Conduit Hubs	455.24	129.79	
26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)					
26 21 13 00-0036	EA	1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service	65.82	22.84	
26 21 13 00-0037	EA	3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service	75.40	25.96	
26 21 13 00-0038	EA	1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	86.11	29.07	
26 21 13 00-0039	EA	1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	115.64	38.94	
26 21 13 00-0040	EA	1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service	130.07	42.05	
26 21 13 00-0041	EA	2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service	168.60	48.80	
26 21 13 00-0042	EA	2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service	273.91	55.03	
26 21 13 00-0043	EA	3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service	312.62	64.89	
26 21 13 00-0044	EA	4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service	522.29	129.79	
26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)					
26 21 13 00-0046	EA	1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	63.92	22.84	
26 21 13 00-0047	EA	3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	72.20	25.96	
26 21 13 00-0048	EA	1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service	81.78	28.94	
26 21 13 00-0049	EA	1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	108.80	38.94	
26 21 13 00-0050	EA	1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	120.83	42.05	
26 21 13 00-0051	EA	2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	142.20	48.80	
26 21 13 00-0052	EA	2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	224.40	55.03	
26 21 13 00-0053	EA	3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	287.72	64.89	
26 21 13 00-0054	EA	3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	407.20	97.34	
26 21 13 00-0055	EA	4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	492.65	129.79	
26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)					
26 21 13 00-0057	EA	1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service	61.51	22.84	
26 21 13 00-0058	EA	3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service	70.28	25.96	
26 21 13 00-0059	EA	1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service	79.63	28.94	
26 21 13 00-0060	EA	1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	106.17	38.94	
26 21 13 00-0061	EA	1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service	115.47	42.05	
26 21 13 00-0062	EA	2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service	140.28	48.80	
26 21 13 00-0063	EA	2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service	221.69	55.03	
26 21 13 00-0064	EA	3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service	249.98	64.89	
26 21 13 00-0065	EA	3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service	422.70	97.34	
26 21 13 00-0066	EA	4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service	583.01	129.79	
26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)					
26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)					
Note: Excludes excavation and backfill.					
26 21 16 00-0002	MLF	#6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	4,878.28	1,280.59	
26 21 16 00-0003	MLF	#4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	5,618.48	1,355.94	
26 21 16 00-0004	MLF	#2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	6,692.19	1,440.65	
26 21 16 00-0005	MLF	1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	8,016.53	1,440.65	
26 21 16 00-0006	MLF	2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	8,944.65	1,536.74	
26 21 16 00-0007	MLF	3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	10,643.48	1,773.15	
26 21 16 00-0008	MLF	4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial	13,004.91	2,305.03	
26 22 Low-Voltage Transformers (26 20)					
26 22 13 Low-Voltage Distribution Transformers (26 22)					
26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13)					
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.					



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Transformers		26 22	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 22 13 00-0002	480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)			
Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.				
26 22 13 00-0003	EA	1 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	1,776.71	332.66
26 22 13 00-0004	EA	3 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,490.37	399.19
26 22 13 00-0005	EA	5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,251.34	416.49
26 22 13 00-0006	EA	7.5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	4,019.26	432.45
26 22 13 00-0007	EA	10 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	5,875.78	465.72
26 22 13 00-0008	EA	15 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,067.61	498.99
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	303.48	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	455.22	
26 22 13 00-0009	EA	25 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,763.84	532.25
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	334.97	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	502.45	
26 22 13 00-0010	EA	37.5 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,442.70	598.78
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	312.26	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	468.38	
26 22 13 00-0011	EA	50 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	8,929.80	665.31
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	379.96	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	569.94	
26 22 13 00-0012	EA	75 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	11,897.52	798.39
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	515.04	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	772.56	
26 22 13 00-0013	EA	100 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,185.39	931.45
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	666.13	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	999.19	
26 22 13 00-0014	EA	167 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	24,493.03	1,197.57
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,104.89	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,657.34	
26 22 13 00-0015	EA	250 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	44,849.22	1,463.70
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,096.09	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	3,144.14	
26 22 13 00-0016	EA	333 KVA, 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	70,961.24	1,663.29
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	3,381.73	
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	5,072.60	
26 22 13 00-0017	240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)			
Note: 1-10 Percent x 2-5 percent FCBN taps.				
26 22 13 00-0018	EA	3 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	1,973.13	399.19
26 22 13 00-0019	EA	5 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,422.52	415.83
26 22 13 00-0020	EA	7.5 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,092.78	432.45
26 22 13 00-0021	EA	10 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,697.12	465.72
26 22 13 00-0022	240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)			
Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.				
26 22 13 00-0023	EA	15 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	7,371.09	498.99
26 22 13 00-0024	EA	25 KVA, 240 x 480 Volt - 120/240 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	8,098.81	532.25
26 22 13 00-0025	208 x 230 Volt, 120 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)			
Note: 1-10 Percent x 2-5 percent FCBN taps.				
26 22 13 00-0026	EA	0.5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	1,453.95	299.39
26 22 13 00-0027	EA	1 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	1,659.71	332.66
26 22 13 00-0028	EA	2 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,218.36	365.92
26 22 13 00-0029	EA	3 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,592.55	399.19
26 22 13 00-0030	EA	5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	2,941.37	416.49
26 22 13 00-0031	EA	7.5 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	3,411.63	432.45
26 22 13 00-0032	EA	10 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	4,485.96	465.72
26 22 13 00-0033	EA	15 KVA, 208/230 Volt - 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	6,277.04	498.99
26 22 13 00-0034	1 Phase Mounting Brackets (26 22 13 00-0001)			
26 22 13 00-0035	EA	1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	656.97	237.20
26 22 13 00-0036	1 Phase Weathershields (26 22 13 00-0001)			
Note: Use with types DT-3 and DS-3.				
26 22 13 00-0037	EA	37.5 KVA 1 Phase Weathershields, Set Of 2.....	218.65	
26 22 13 00-0038	EA	50 KVA 1 Phase Weathershields, Set Of 2.....	278.70	
26 22 13 00-0039	EA	75 KVA 1 Phase Weathershields, Set Of 2.....	332.34	
26 22 13 00-0040	EA	100 KVA 1 Phase Weathershields, Set Of 2.....	396.48	
26 22 13 00-0041	EA	167 KVA 1 Phase Weathershields, Set Of 2.....	536.41	
26 22 13 00-0042	EA	250 KVA 1 Phase Weathershields, Set Of 2.....	641.36	
26 22 13 00-0043	EA	333 KVA 1 Phase Weathershields, Set Of 2.....	787.13	
26 22 13 00-0044	Packaged Power Supply (26 22 13 00-0001)			
Note: 2-5 Percent FCBN taps.				
26 22 13 00-0045	EA	5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	4,046.10	415.83
26 22 13 00-0046	EA	7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	4,623.54	432.45

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0047	EA	10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	5,014.19		465.72
26 22 13 00-0048	EA	15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	6,296.92		498.99
26 22 13 00-0049	EA	25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	8,968.32		532.25
26 22 13 00-0050 240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade (26 22 13 00-0001)					
26 22 13 00-0051	EA	0.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	3,018.47		299.39
26 22 13 00-0052	EA	1 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	4,426.03		332.66
26 22 13 00-0053	EA	2.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	5,142.17		399.19
26 22 13 00-0054	EA	5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	5,729.33		415.83
26 22 13 00-0055	EA	7.5 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	6,520.58		432.45
26 22 13 00-0056	EA	10 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	8,569.50		465.72
26 22 13 00-0057	EA	15 KVA, 240 Volt - 120/240 Volt, 1 Phase, 60 Hertz, Isolation Transformer.....	11,306.43		498.99
26 22 13 00-0058 600 Volt, 208/120 Volt, Dry General Purpose Transformer (26 22 13 00-0001)					
26 22 13 00-0059	EA	15 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,118.77		498.99
26 22 13 00-0060	EA	25 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	14,620.19		532.25
26 22 13 00-0061	EA	30 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,167.88		565.52
26 22 13 00-0062	EA	37.5 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	20,266.85		598.78
26 22 13 00-0063	EA	45 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	21,043.82		632.05
26 22 13 00-0064	EA	50 KVA, 600 Volt, 208 Y / 120 Volt, 1 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	28,365.11		665.31
26 22 13 00-0065 3 Phase General Purpose "Dry Type" Transformer (26 22 13)					
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.					
26 22 13 00-0066 Packaged Power Supply (26 22 13 00-0065)					
Note: 2-5 Percent FCBN taps.					
26 22 13 00-0067	EA	15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	18,268.42		1,430.43
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add			770.38		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add			1,155.57		
26 22 13 00-0068	EA	22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	22,153.73		1,530.23
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add			954.66		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add			1,432.00		
26 22 13 00-0069	EA	30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	26,753.75		1,663.29
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add			1,171.36		
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add			1,757.04		
26 22 13 00-0070 Drive Isolation Transformers (26 22 13 00-0065)					
Note: Only use in step-up applications.					
26 22 13 00-0071 230 Volt Drive Isolation Transformers (26 22 13 00-0070)					
26 22 13 00-0072	EA	7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,226.10		532.25
26 22 13 00-0073	EA	11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,819.11		565.52
26 22 13 00-0074	EA	15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,190.93		598.78
26 22 13 00-0075	EA	20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,239.86		632.05
26 22 13 00-0076	EA	27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,686.36		698.58
26 22 13 00-0077	EA	34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,048.75		765.12
26 22 13 00-0078	EA	40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,029.87		831.65
26 22 13 00-0079	EA	51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,830.59		931.45
26 22 13 00-0080	EA	63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	21,480.59		964.72
26 22 13 00-0081	EA	75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	24,848.39		997.98
26 22 13 00-0082	EA	93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	31,358.70		1,031.25
26 22 13 00-0083	EA	118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	35,158.27		1,264.11
26 22 13 00-0084	EA	145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	39,252.05		1,330.64
26 22 13 00-0085	EA	175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	45,022.91		1,397.17
26 22 13 00-0086	EA	220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	54,937.93		1,663.29
26 22 13 00-0087	EA	275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	72,893.83		1,962.69
26 22 13 00-0088	EA	330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	76,899.58		2,162.28
26 22 13 00-0089	EA	440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	93,757.67		2,395.15
26 22 13 00-0090	EA	550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	115,856.06		2,661.28
26 22 13 00-0091 208V Drive Isolation Transformers (26 22 13 00-0070)					
26 22 13 00-0092	EA	7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,641.52		532.25
26 22 13 00-0093	EA	11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,312.23		565.52
26 22 13 00-0094	EA	15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,699.59		598.78
26 22 13 00-0095	EA	20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,849.43		632.05
26 22 13 00-0096	EA	27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,311.88		698.58
26 22 13 00-0097	EA	30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,670.31		731.86
26 22 13 00-0098	EA	45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,878.56		864.92
26 22 13 00-0099	EA	51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,745.14		931.45
26 22 13 00-0100	EA	63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	22,475.75		964.72
26 22 13 00-0101	EA	75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	26,011.58		997.98
26 22 13 00-0102	EA	93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	32,849.88		1,031.25
26 22 13 00-0103	EA	118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	36,819.14		1,264.11
26 22 13 00-0104	EA	145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	41,114.52		1,330.64



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Transformers	26 22	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0105	EA	175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	47,172.35		1,397.17
26 22 13 00-0106	EA	220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	57,564.95		1,663.29
26 22 13 00-0107 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps (26 22 13 00-0065)					
26 22 13 00-0108	EA	9 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	6,415.79		548.89
26 22 13 00-0109	EA	15 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	8,494.52		598.78
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	364.85		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	547.27		
26 22 13 00-0110 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps (26 22 13 00-0065)					
26 22 13 00-0111	EA	30 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	9,479.20		731.86
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	400.78		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	601.16		
		For K4 Factor Rating, Add	5,610.85		
		For K13 Factor Rating, Add	8,015.50		
		For K20 Factor Rating, Add	10,420.15		
26 22 13 00-0112	EA	37.5 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	11,504.36		798.39
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	495.38		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	743.07		
		For K4 Factor Rating, Add	6,935.32		
		For K13 Factor Rating, Add	9,907.60		
		For K20 Factor Rating, Add	12,879.88		
26 22 13 00-0113	EA	45 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	12,006.54		864.92
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	513.84		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	770.75		
		For K4 Factor Rating, Add	7,193.70		
		For K13 Factor Rating, Add	10,276.71		
		For K20 Factor Rating, Add	13,359.72		
26 22 13 00-0114	EA	50 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,908.87		931.45
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	702.30		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,053.45		
		For K4 Factor Rating, Add	9,832.19		
		For K13 Factor Rating, Add	14,045.98		
		For K20 Factor Rating, Add	18,259.77		
26 22 13 00-0115	EA	75 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	15,632.48		997.98
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	681.83		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,022.74		
		For K4 Factor Rating, Add	9,545.57		
		For K13 Factor Rating, Add	13,636.53		
		For K20 Factor Rating, Add	17,727.49		
26 22 13 00-0116	EA	112.5 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	19,490.12		1,197.57
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	854.75		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,282.12		
		For K4 Factor Rating, Add	11,966.48		
		For K13 Factor Rating, Add	17,094.97		
		For K20 Factor Rating, Add	22,223.46		
26 22 13 00-0117	EA	150 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	25,460.05		1,330.64
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,139.94		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	1,709.91		
		For K4 Factor Rating, Add	15,959.14		
		For K13 Factor Rating, Add	22,798.77		
		For K20 Factor Rating, Add	29,638.40		
26 22 13 00-0118	EA	225 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	34,827.36		1,663.29
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,575.04		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	2,362.56		
		For K4 Factor Rating, Add	22,050.54		
		For K13 Factor Rating, Add	31,500.77		
		For K20 Factor Rating, Add	40,951.00		
26 22 13 00-0119	EA	300 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	42,427.57		2,062.48
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	1,915.13		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	2,872.69		
		For K4 Factor Rating, Add	26,811.81		
		For K13 Factor Rating, Add	38,302.59		
		For K20 Factor Rating, Add	49,793.37		
26 22 13 00-0120	EA	500 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	61,144.36		2,528.21
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	2,804.40		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	4,206.60		
		For K4 Factor Rating, Add	39,261.56		
		For K13 Factor Rating, Add	56,087.94		
		For K20 Factor Rating, Add	72,914.32		
26 22 13 00-0121	EA	750 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	142,932.26		3,049.18
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	6,840.57		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	10,260.85		
		For K4 Factor Rating, Add	95,767.93		
		For K13 Factor Rating, Add	136,811.33		
		For K20 Factor Rating, Add	177,854.73		
26 22 13 00-0122	EA	1,000 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer.....	188,799.71		3,326.59
		For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	9,107.33		
		For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	13,660.99		
		For K4 Factor Rating, Add	127,502.56		
		For K13 Factor Rating, Add	182,146.52		
		For K20 Factor Rating, Add	236,790.48		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 22 13 00-0123	480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps (26 22 13 00-0065)				
26 22 13 00-0124	EA 6 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	5,176.07 2,901.37 4,144.82 5,388.27		515.62	
26 22 13 00-0125	EA 9 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	6,415.79 3,722.61 5,318.01 6,913.41		548.89	
26 22 13 00-0126	EA 15 KVA, 480 x 208 Y / 120 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	8,494.52 364.85 547.27 5,107.87 7,296.95 9,486.04		598.78	
26 22 13 00-0127	480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps (26 22 13 00-0065)				
26 22 13 00-0128	EA 30 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	16,721.54 762.89 1,144.34 10,680.49 15,257.84 19,835.19		731.86	
26 22 13 00-0129	EA 45 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	18,708.77 848.95 1,273.42 11,885.26 16,978.94 22,072.62		864.92	
26 22 13 00-0130	EA 75 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	27,818.90 1,291.15 1,936.72 18,076.07 25,822.95 33,569.84		997.98	
26 22 13 00-0131	EA 112.5 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	34,967.13 1,628.60 2,442.90 22,800.39 32,571.98 42,343.57		1,197.57	
26 22 13 00-0132	EA 150 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	42,201.45 1,977.01 2,965.51 27,678.12 39,540.17 51,402.22		1,330.64	
26 22 13 00-0133	EA 225 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	54,128.05 2,540.07 3,810.11 35,561.02 50,801.46 66,041.90		1,663.29	
26 22 13 00-0134	EA 300 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	65,781.61 3,082.83 4,624.25 43,159.64 61,656.63 80,153.62		2,062.48	
26 22 13 00-0135	EA 500 KVA, 480 x 480 Y / 277 Volt, 3 Phase, 60 Hertz, General Purpose Dry Type Transformer For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add For K4 Factor Rating, Add For K13 Factor Rating, Add For K20 Factor Rating, Add	106,324.13 5,063.39 7,595.08 70,887.40 101,267.71 131,648.02		2,528.21	
26 22 13 00-0136	3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0065)				
26 22 13 00-0137	3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0136) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.				
26 22 13 00-0138	EA 15 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer	7,907.93		598.78	
26 22 13 00-0139	EA 30 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer	12,093.26		731.86	
26 22 13 00-0140	EA 45 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer	17,915.90		864.92	
26 22 13 00-0141	EA 75 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer	22,977.90		997.98	
26 22 13 00-0142	EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer	34,760.85		1,197.57	



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Transformers			26 22

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0143	EA	150 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	42,381.94	1,330.64
26 22 13 00-0144	EA	225 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	49,196.81	1,663.29
26 22 13 00-0145	EA	300 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 115 Degree C Temperature Rise, K20 Dry Type Transformer.....	78,602.84	2,062.48
26 22 13 00-0146		3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0136) Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0147	EA	15 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	9,255.15	598.78
26 22 13 00-0148	EA	30 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	14,220.47	731.86
26 22 13 00-0149	EA	45 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	21,151.83	864.92
26 22 13 00-0150	EA	75 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	27,167.84	997.98
26 22 13 00-0151	EA	112.5 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	41,232.71	1,197.57
26 22 13 00-0152	EA	150 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	50,329.95	1,330.64
26 22 13 00-0153	EA	225 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	58,369.56	1,663.29
26 22 13 00-0154	EA	300 KVA, 480 Volt - 208 Y / 120 Volt, 3 Phase, 60 Hertz, 80 Degree C Temperature Rise, K20 Dry Type Transformer.....	93,499.70	2,062.48
26 22 13 00-0155		NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0065)		
26 22 13 00-0156		Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0155) Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0157		150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0158	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	3,612.79	596.58
26 22 13 00-0159	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,407.52	729.15
26 22 13 00-0160	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,307.10	861.72
26 22 13 00-0161	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,066.45	994.30
26 22 13 00-0162	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	9,404.19	1,193.15
26 22 13 00-0163	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,641.21	1,325.73
26 22 13 00-0164	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	15,397.82	1,657.16
26 22 13 00-0165	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	21,574.85	2,054.88
26 22 13 00-0166		115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0167	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,340.79	596.58
26 22 13 00-0168	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,289.35	729.15
26 22 13 00-0169	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,382.44	861.72
26 22 13 00-0170	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,590.05	994.30
26 22 13 00-0171	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,976.79	1,193.15
26 22 13 00-0172	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,338.14	1,325.73
26 22 13 00-0173	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,023.11	1,657.16
26 22 13 00-0174	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	26,814.38	2,054.88
26 22 13 00-0175		80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0156)		
26 22 13 00-0176	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,065.85	596.58
26 22 13 00-0177	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,173.63	729.15
26 22 13 00-0178	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,457.79	861.72

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0179	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,111.21	994.30
26 22 13 00-0180	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	12,960.90	1,193.15
26 22 13 00-0181	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	17,035.06	1,325.73
26 22 13 00-0182	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	22,648.41	1,657.16
26 22 13 00-0183	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	32,053.91	2,054.88
26 22 13 00-0184		Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0155) Note: Two taps at 2.5%, four at -2.5%.		
26 22 13 00-0185		150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0186	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	4,823.34	596.58
26 22 13 00-0187	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,879.69	729.15
26 22 13 00-0188	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,097.70	861.72
26 22 13 00-0189	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,604.15	994.30
26 22 13 00-0190	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,990.29	1,193.15
26 22 13 00-0191	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,229.17	1,325.73
26 22 13 00-0192	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,563.27	1,657.16
26 22 13 00-0193	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	30,488.66	2,054.88
26 22 13 00-0194		115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0195	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,548.40	596.58
26 22 13 00-0196	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,763.97	729.15
26 22 13 00-0197	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,173.05	861.72
26 22 13 00-0198	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,127.77	994.30
26 22 13 00-0199	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,850.74	1,193.15
26 22 13 00-0200	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,191.90	1,325.73
26 22 13 00-0201	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,040.41	1,657.16
26 22 13 00-0202	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	40,161.83	2,054.88
26 22 13 00-0203		80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0184)		
26 22 13 00-0204	EA	15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,275.91	596.58
26 22 13 00-0205	EA	30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,648.24	729.15
26 22 13 00-0206	EA	45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,248.38	861.72
26 22 13 00-0207	EA	75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,648.91	994.30
26 22 13 00-0208	EA	112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	19,951.85	1,193.15
26 22 13 00-0209	EA	150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	25,691.68	1,325.73
26 22 13 00-0210	EA	225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	32,515.09	1,657.16
26 22 13 00-0211	EA	300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	47,887.63	2,054.88
26 22 13 00-0212		3 Phase Weathershields (26 22 13 00-0065) Note: Use with type DT-3 and DS-3.		
26 22 13 00-0213	EA	45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	1,772.67	
26 22 13 00-0214	EA	150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	3,010.31	
26 22 13 00-0215	EA	500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2	3,010.31	



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Transformers	26 22

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 22 13 00-0216			Three Phase Mounting Brackets (26 22 13 00-0065)		
26 22 13 00-0217	EA		3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA.....	1,420.69	237.20

26 22 13 00-0218			Foam Core Poly Transformer Pads (26 22 13)		
26 22 13 00-0219	EA		Single Phase Foam Core Poly Pads.....	465.02	44.09
			Note: Excludes site prep.		

26 24 Switchboards and Panelboards (26 20)

26 24 13 Switchboards (26 24)

Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.

26 24 13 00-0001			Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0002			Incoming Service Section Main Device Only (26 24 13 00-0001)		
			Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003	EA		400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,477.20	1,135.28
26 24 13 00-0004	EA		600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,952.10	1,200.82
26 24 13 00-0005	EA		800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	7,959.24	1,362.15
26 24 13 00-0006	EA		1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,573.31	1,460.27
26 24 13 00-0007	EA		1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	13,703.56	1,556.97
26 24 13 00-0008	EA		2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	15,275.13	1,655.48
26 24 13 00-0009	EA		400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,404.46	1,135.28
26 24 13 00-0010	EA		600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,906.31	1,200.82
26 24 13 00-0011	EA		800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,605.00	1,363.32
26 24 13 00-0012	EA		1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,111.83	1,460.27
26 24 13 00-0013	EA		1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,703.56	1,558.53
26 24 13 00-0014	EA		2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,275.13	1,655.48
26 24 13 00-0015	EA		2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	18,340.29	1,730.76
26 24 13 00-0016	EA		3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	20,784.88	1,854.19
26 24 13 00-0017	EA		4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	24,521.14	1,998.77
26 24 13 00-0018	EA		400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,055.50	1,005.87
26 24 13 00-0019	EA		600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,372.32	1,070.91
26 24 13 00-0020	EA		800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,863.15	1,232.75
26 24 13 00-0021	EA		1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,162.65	1,284.54
26 24 13 00-0022	EA		1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,429.54	1,330.87
26 24 13 00-0023	EA		1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,851.28	1,426.92
26 24 13 00-0024	EA		2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,244.78	1,524.78

26 24 13 00-0025			Branch Breaker Units (26 24 13 00-0001)		
			Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026	EA		15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	380.12	39.58
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
			23.75		
26 24 13 00-0027	EA		70 To 100 Amperes, 240 Volt, MC Branch Breaker.....	557.20	62.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
			37.38		
26 24 13 00-0028	EA		125 To 225 Amperes, 240 Volt, MC Branch Breaker.....	1,492.95	113.57
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
			68.14		
26 24 13 00-0029	EA		100 To 400 Amperes, 240 Volt, MC Branch Breaker.....	2,647.00	147.96
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
			88.78		
26 24 13 00-0030	EA		300 To 600 Amperes, 240 Volt, MC Branch Breaker.....	4,721.66	363.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
			218.01		
26 24 13 00-0031	EA		400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	7,544.83	363.42
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
			218.01		
26 24 13 00-0032	EA		600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	12,236.27	647.66
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		
			388.59		

26 24 13 00-0033			Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034			Incoming Service Section Main Device Only (26 24 13 00-0033)		
			Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035	EA		400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,335.00	1,473.12
26 24 13 00-0036	EA		600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	7,071.45	1,473.12
26 24 13 00-0037	EA		800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	10,437.62	1,914.41
26 24 13 00-0038	EA		1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	11,821.00	1,914.41

26 24 13 00-0039			Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040			Incoming Service Section Main Device Only (26 24 13 00-0039)		
			Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041	EA		200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	4,027.91	1,005.87
26 24 13 00-0042	EA		600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	4,481.55	1,070.91
26 24 13 00-0043	EA		800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,838.62	1,232.75
26 24 13 00-0044	EA		1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	7,429.51	1,329.84
26 24 13 00-0045	EA		200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	4,908.15	1,005.87
26 24 13 00-0046	EA		600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	6,185.61	1,070.91

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	8,666.82	1,232.75
26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	12,415.67	1,329.84
26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	14,571.16	1,492.59
26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	2,831.64	875.95
26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,170.50	941.11
26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,721.79	1,102.96
26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,004.10	1,154.75
26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,276.97	1,200.82
26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,639.92	1,284.54
26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,994.61	1,362.15
26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,199.63	1,687.27
26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,936.79	1,849.52
26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	8,149.90	1,995.53
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker	205.34	34.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.64	
26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker	326.37	57.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.26	
26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker	987.22	79.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.89	
26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker	2,828.87	102.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.52	
26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker	4,462.63	249.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	149.90	
26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker	6,335.97	249.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	149.90	
26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker	10,452.40	476.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	286.22	
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,478.78	1,135.28
26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	4,950.32	1,200.82
26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	7,956.96	1,362.15
26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	8,570.67	1,460.27
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	13,697.57	1,556.97
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	15,275.13	1,655.48
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,406.04	1,135.28
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,904.53	1,200.82
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,605.00	1,363.32
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,109.19	1,460.27
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,700.57	1,558.53
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	15,275.13	1,655.48
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,202.21	1,005.87
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,576.86	1,070.91
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,169.68	1,232.75
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,483.81	1,284.54
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,787.19	1,330.87
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,195.47	1,426.92
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,609.44	1,524.78
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	6,654.00	1,732.71
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,358.20	1,854.06
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	8,675.62	1,992.29
26 24 13 00-0092 Branch Breaker Units (26 24 13 00-0068)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker	380.12	39.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.75	
26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker	557.20	62.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.38	
26 24 13 00-0095 EA 125 To 225 Amperes, 120/208 Volt, MC Branch Breaker	1,492.95	113.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.14	
26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker	2,647.00	147.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.78	
26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker	4,721.66	363.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	218.01	
26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker	7,544.83	363.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	218.01	
26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker	12,236.27	647.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	388.59	
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire (26 24 13)		



Electrical		26
Low-Voltage Electrical Distribution		26 20
Switchboards and Panelboards		26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0101 Incoming Service Section Main Device Only (26 24 13 00-0100)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	5,811.12	1,556.97
26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	6,374.90	1,655.48
26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	9,035.39	1,847.83
26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch	9,874.21	1,978.53
26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	7,385.40	1,556.97
26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,903.40	1,655.48
26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	11,219.53	1,849.91
26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,145.64	1,978.53
26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,803.05	2,109.74
26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	16,445.87	2,240.83
26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,202.21	1,005.87
26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	3,576.86	1,070.91
26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,169.68	1,232.75
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,483.81	1,284.54
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	4,787.19	1,330.87
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	5,195.47	1,426.92
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug	5,609.44	1,524.78
26 24 13 00-0119 Branch Breaker Units (26 24 13 00-0100)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker	784.50	39.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		23.75
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker	905.16	62.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		37.38
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker	1,641.54	113.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		68.14
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker	2,647.00	147.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		88.78
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker	6,342.96	363.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		218.01
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker	6,487.78	363.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		218.01
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker	10,413.72	647.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		388.59
26 24 13 00-0127 Fusible Branch Circuit Switch (26 24 13)		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0129 EA 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	811.61	101.89
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0130 EA 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	808.79	101.89
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0131 EA 60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	808.79	101.89
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0132 EA 60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,267.99	134.34
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0133 EA 100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	1,267.99	134.34
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135 EA 100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	927.50	99.94
For Electrical Interlock Kit, Add		314.99
26 24 13 00-0136 EA 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	1,349.89	99.94
For Electrical Interlock Kit, Add		314.99
26 24 13 00-0137 EA 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit	3,470.29	269.31
26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139 EA 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,039.19	114.87
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0140 EA 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,036.38	114.87
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0141 EA 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,036.38	114.87
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0142 EA 60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,560.17	153.81
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0143 EA 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit	1,560.17	153.81
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145 EA 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	1,122.89	112.92
For Electrical Interlock Kit, Add		328.81
26 24 13 00-0146 EA 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	1,811.46	112.92
For Electrical Interlock Kit, Add		314.99

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	4,644.62	301.50
26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	6,630.34	386.26
26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit	12,330.29	523.31
26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,465.58	114.87
For Electrical Interlock Kit, Add	328.81	
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,462.73	114.87
For Electrical Interlock Kit, Add	328.81	
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,465.58	114.87
For Electrical Interlock Kit, Add	328.81	
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	2,203.52	153.81
For Electrical Interlock Kit, Add	328.81	
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	2,251.13	153.81
For Electrical Interlock Kit, Add	328.81	
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	4,786.40	201.17
For Electrical Interlock Kit, Add	328.81	
26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	1,582.12	112.92
For Electrical Interlock Kit, Add	328.81	
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	2,394.47	112.92
For Electrical Interlock Kit, Add	314.99	
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	5,827.22	301.50
For Electrical Interlock Kit, Add	314.99	
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	7,077.96	386.26
26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit	12,330.29	523.31
26 24 13 00-0163 Service And Distribution Structures (26 24 13)		
26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,008.62	1,194.08
26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,583.46	1,194.08
26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,990.81	1,518.55
26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,410.11	1,518.55
26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,390.20	1,382.27
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,948.47	1,382.27
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,410.11	1,713.23
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,786.78	1,713.23
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	3,980.80	1,687.27
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,553.23	1,687.27
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,044.30	2,076.65
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,596.13	2,076.65
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	4,897.75	1,849.52
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,583.63	1,849.52
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,168.03	2,284.31
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,648.73	2,284.31
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,138.37	1,856.01
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	5,880.77	2,089.63
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,001.63	2,089.63
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	6,256.32	2,206.44
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	7,029.79	2,089.63
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	7,148.84	2,089.63
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	7,403.53	2,206.44
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	7,196.19	2,206.44
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	7,403.53	2,206.44
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus	7,495.50	2,206.44



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard	631.92	155.75
26 24 13 00-0200 EA Drilled Bottom For Pull Boy	712.65	155.75
26 24 13 00-0201 EA Cable Supports In Pull Box	252.48	38.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		21.63
26 24 13 00-0202 Underground Pull Sections (26 24 13 00-0164)		
Note: Excludes no bus or terminal.		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal	615.25	181.70
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal	1,058.95	233.62
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal	1,058.95	233.62
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal	795.14	181.70
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal	1,134.17	266.07
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,295.99	266.07
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,360.44	343.94
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal	1,438.97	343.94
26 24 13 00-0211 Switchboard Sections (26 24 13 00-0163)		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	4,925.05	1,081.55
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	5,393.34	1,175.64
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	6,766.96	1,502.19
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	7,400.34	1,638.73
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit	7,891.98	1,744.51
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section	5,820.19	948.77
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated	3,355.69	901.26
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated	3,715.86	977.33
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus	8,088.19	1,081.55
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker	8,688.35	1,084.40
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker	9,540.56	1,210.69
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame	189.76	64.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		39.64
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame	231.31	66.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		46.82
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame	1,048.71	78.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		100.87
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame	1,733.08	168.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		140.47
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker	694.68	234.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		81.12
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker	1,937.33	135.24
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		100.87
26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt (26 24 13 00-0163)		
26 24 13 00-0230 EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	2,553.41	563.29
26 24 13 00-0231 EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,627.62	761.74
26 24 13 00-0232 EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	4,078.05	927.09
26 24 13 00-0233 EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	5,157.71	1,297.91
26 24 13 00-0234 EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	6,392.93	1,622.38
26 24 13 00-0235 EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	7,027.04	1,622.38
26 24 13 00-0236 EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	8,693.39	2,163.22
26 24 13 00-0237 EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	9,909.28	2,163.22
26 24 13 00-0238 EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	11,656.11	2,575.17
26 24 13 00-0239 EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	13,893.47	2,575.17
26 24 13 00-0240 Main Devices (26 24 13)		
26 24 13 00-0241 Power Circuit Breakers (26 24 13 00-0240)		
26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip	8,892.42	1,362.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		815.95
26 24 13 00-0244 EA 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip	16,203.28	2,271.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		1,361.44
26 24 13 00-0245 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip	36,348.52	3,815.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		2,269.07
26 24 13 00-0246 EA 4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip	58,577.00	6,178.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		3,772.98
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed	3,044.81	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed	393.23	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed	515.89	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed	371.58	
26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0252 EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip 10,401.58		1,427.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	860.68	
26 24 13 00-0253 EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip 19,292.08		2,401.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,433.62	
26 24 13 00-0254 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip 40,805.37		3,958.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,385.85	
26 24 13 00-0255 EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip 63,075.76		6,489.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,989.46	
26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip 7,095.65		1,245.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	748.79	
26 24 13 00-0258 EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip 12,960.67		2,089.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,247.99	
26 24 13 00-0259 EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip 19,251.37		3,504.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,079.98	
26 24 13 00-0260 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip 33,201.76		5,645.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,464.16	
26 24 13 00-0261 EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip 54,052.72		9,215.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,759.93	
26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip 8,340.34		1,194.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	714.18	
26 24 13 00-0264 EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip 15,539.85		1,998.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,190.01	
26 24 13 00-0265 EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip 22,181.50		3,322.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,986.59	
26 24 13 00-0266 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip 36,614.42		5,412.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,310.98	
26 24 13 00-0267 EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip 57,320.58		9,280.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5,530.85	
26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)		
26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker 3,069.24		1,090.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	628.02	
26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker 4,447.00		1,090.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	683.11	
26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker 4,931.09		1,297.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	748.79	
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker 5,847.99		1,297.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	811.19	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker 8,623.57		1,557.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	888.98	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker 13,856.80		1,557.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	983.26	
26 24 13 00-0275 EA Shunt Trip, Factory Installed 389.62		
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed 90.19		
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 626.30		94.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.43	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 740.13		124.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.88	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 2,122.80		187.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.79	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 2,804.69		235.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.49	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 3,397.80		316.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.75	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 4,105.91		405.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	243.36	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 6,600.68		618.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	370.83	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 6,600.68		618.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	370.83	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 9,257.70		865.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	519.16	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker 11,573.66		1,297.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	778.74	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard 7,482.78		563.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	338.00	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 24 13 00-0290	EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,589.88 370.13		616.89
26 24 13 00-0291	EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,210.28 556.25		927.09
26 24 13 00-0292	EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,014.42 778.74		1,297.91
26 24 13 00-0293	EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,290.08 861.44		1,435.75
26 24 13 00-0294	EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,933.51 1,545.13		2,575.17
26 24 13 00-0295	Branch Or Distribution Devices (26 24 13)			
26 24 13 00-0296	3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295) Note: Includes certified refurbished circuit breakers.			
26 24 13 00-0297	EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	668.91 31.15		46.72
26 24 13 00-0298	EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	675.09 38.94		58.40
26 24 13 00-0299	EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,627.32 46.73		70.09
26 24 13 00-0300	EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,360.19 60.35		90.85
26 24 13 00-0301	EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,328.20 74.76		112.14
26 24 13 00-0302	EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,359.74 87.61		131.09
26 24 13 00-0303	EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,657.41 98.90		147.96
26 24 13 00-0304	2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295) Note: Includes certified refurbished circuit breakers.			
26 24 13 00-0305	EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	460.78 23.36		35.04
26 24 13 00-0306	EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	591.97 31.15		46.72
26 24 13 00-0307	EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,622.01 38.94		58.40
26 24 13 00-0308	EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,571.05 42.83		64.89
26 24 13 00-0309	EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,716.24 56.46		84.36
26 24 13 00-0310	EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,158.81 81.77		122.65
26 24 13 00-0311	Meter Devices And Instrumentation (26 24 13) Note: Factory installed accessories.			
26 24 13 00-0312	Compartments For Instrument Transformers And Metering Devices (26 24 13 00-0311)			
26 24 13 00-0313	EA Compartment For, Up To 800 Amperes, Primary Current Transformer	470.79		
26 24 13 00-0314	EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer	680.03		
26 24 13 00-0315	EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer	800.89		
26 24 13 00-0316	Instruments (26 24 13 00-0311)			
26 24 13 00-0317	EA AC Voltmeter	642.15		
26 24 13 00-0318	EA AC Ammeter	642.15		
26 24 13 00-0319	EA AC Wattmeter	1,715.41		
26 24 13 00-0320	EA Variometer	1,937.28		
26 24 13 00-0321	EA Power Factor Meter	1,547.66		
26 24 13 00-0322	EA Frequency Meter	1,708.19		
26 24 13 00-0323	EA 200 Volt-Amperes Max Potential Transformer	577.21		
26 24 13 00-0324	EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block	2,173.57		
26 24 13 00-0325	EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2	3,636.45		
26 24 13 00-0326	EA Weatherproof, Modify Meter	3,524.82		
26 24 13 00-0327	EA Control Switch Resistor Type 130 V	83.20		
26 24 13 00-0328	EA Metering Instrument: Voltage, Amperes And Watt Hour	4,386.48		
26 24 16	Panelboards (26 24)			
26 24 16 00-0001	Branch Circuit Panelboard (26 24 16) Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.			
26 24 16 00-0002	Assembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.			
26 24 16 00-0003	120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)			

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0004	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,359.71	369.91
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0005	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,547.86	369.91
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0006	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,759.58	512.67
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0007	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	1,973.50	512.67
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0008	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	2,175.10	642.46
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0009	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,381.95	642.46
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0010	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,581.73	739.81
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0011	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,103.81	947.47
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0012	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,268.88	947.47
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0013	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,430.41	1,083.75
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0014	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,690.47	1,083.75
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0015	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	3,850.38	1,220.03
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0016	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,088.76	1,220.03
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0017	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,235.56	1,349.82
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0018	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,473.84	1,349.82
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0019	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	4,693.87	1,492.59
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0020	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	4,845.19	1,492.59
			<i>For NEMA 3R Panelboard, Add</i>	2,136.20	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0021	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,067.94	1,492.59
			<i>For NEMA 3R Panelboard, Add</i>	2,136.20	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0022			120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0023	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,604.38	356.93
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0024	EA		50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,795.34	356.93
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0025	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,237.56	610.02
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0026	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,536.72	610.02
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0027	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,742.37	746.29
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0028	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	2,956.86	746.29
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0029	EA		100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,147.26	895.55
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0030	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,805.85	895.55
			For NEMA 3R Panelboard, Add	1,737.56	
			For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0031	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	3,975.86	1,096.73
			For NEMA 3R Panelboard, Add	1,737.56	
			For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0032	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,160.59	1,096.73
			For NEMA 3R Panelboard, Add	1,737.56	
			For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0033	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	4,363.00	1,233.01
			For NEMA 3R Panelboard, Add	2,052.47	
			For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0034	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	4,526.98	1,233.01
			For NEMA 3R Panelboard, Add	2,052.47	
			For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0035	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	4,701.86	1,349.82
			For NEMA 3R Panelboard, Add	2,052.47	
			For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0036	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,889.33	1,349.82
			For NEMA 3R Panelboard, Add	2,052.47	
			For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0037	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	5,091.43	1,596.42
			For NEMA 3R Panelboard, Add	2,052.47	
			For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0038	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,310.65	1,596.42
			For NEMA 3R Panelboard, Add	2,052.47	
			For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0039	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	5,550.13	1,596.42
			For NEMA 3R Panelboard, Add	2,136.20	
			For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0040	EA		225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	5,698.11	1,687.27
			For NEMA 3R Panelboard, Add	2,136.20	
			For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0041			120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0042	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,639.61	421.82
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0043	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,842.17	421.82
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0044	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,071.72	564.59
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0045	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,312.36	564.59
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0046	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	2,528.40	694.38
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0047	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	2,759.36	694.38
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0048	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,976.67	824.17
			For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0049	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,202.39	824.17
			For NEMA 3R Panelboard, Add	1,737.56	
			For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0050	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	3,411.06	966.94
			For NEMA 3R Panelboard, Add	1,737.56	
			For Door-In-Door (Hinged) Trim Front, Add	126.97	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0051	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,651.36 1,737.56 126.97	966.94
26 24 16 00-0052	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,897.20 1,737.56 126.97	1,116.20
26 24 16 00-0053	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,137.43 1,737.56 126.97	1,116.20
26 24 16 00-0054	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,620.55 2,052.47 216.84	1,349.82
26 24 16 00-0055	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,786.20 2,052.47 216.84	1,349.82
26 24 16 00-0056	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,065.89 2,052.47 216.84	1,499.08
26 24 16 00-0057	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,321.28 2,052.47 216.84	1,499.08
26 24 16 00-0058	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,500.53 2,136.20 277.14	1,635.36
26 24 16 00-0059	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,757.34 2,136.20 277.14	1,635.36
26 24 16 00-0060	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,578.33 2,052.47 216.84	1,451.05
26 24 16 00-0061	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,761.04 2,052.47 216.84	1,525.04
26 24 16 00-0062	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,053.62 2,052.47 216.84	1,606.15
26 24 16 00-0063	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,328.70 2,052.47 216.84	1,700.25
26 24 16 00-0064	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,519.42 2,136.20 277.14	1,752.18
26 24 16 00-0065	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,829.15 2,136.20 277.14	1,859.25
26 24 16 00-0066		120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0067	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	1,941.51 1,579.99	408.84
26 24 16 00-0068	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,146.72 1,579.99	408.84
26 24 16 00-0069	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,389.92 1,579.99	538.63
26 24 16 00-0070	EA	50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	2,724.49 1,579.99	538.63
26 24 16 00-0071	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,229.74 1,579.99	811.19
26 24 16 00-0072	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,440.57 1,579.99	811.19
26 24 16 00-0073	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,669.38 1,579.99	947.47



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0074 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,860.69	947.47
For NEMA 3R Panelboard, Add	1,737.56	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0075 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,117.09	1,096.73
For NEMA 3R Panelboard, Add	1,737.56	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0076 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,293.82	1,096.73
For NEMA 3R Panelboard, Add	1,737.56	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0077 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,576.58	1,233.01
For NEMA 3R Panelboard, Add	1,737.56	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0078 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,818.14	1,233.01
For NEMA 3R Panelboard, Add	1,737.56	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0079 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,657.62	1,427.69
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0080 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,909.70	1,505.57
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0081 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,017.90	1,505.57
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0082 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,301.36	1,700.25
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0083 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,497.71	1,700.25
For NEMA 3R Panelboard, Add	2,136.20	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0084 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,629.13	1,700.25
For NEMA 3R Panelboard, Add	2,136.20	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0085 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,644.19	1,563.97
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0086 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,920.20	1,654.82
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0087 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,032.16	1,700.25
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0088 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,338.36	1,804.09
For NEMA 3R Panelboard, Add	2,052.47	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0089 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,533.68	1,856.01
For NEMA 3R Panelboard, Add	2,136.20	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0090 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,719.79	1,920.90
For NEMA 3R Panelboard, Add	2,136.20	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0092 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,844.06	415.33
For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0093 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,110.81	415.33
For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0094 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,366.42	571.08
For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0095 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,633.13	571.08
For NEMA 3R Panelboard, Add	1,579.99	
26 24 16 00-0096 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,881.68	713.85
For NEMA 3R Panelboard, Add	1,579.99	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0097	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,143.72	713.85
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0098	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,417.33	863.10
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0099	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,667.82	863.10
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0100	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,943.52	1,025.34
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0101	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,209.59	1,025.34
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0102	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,453.97	1,168.12
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0103	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,716.02	1,168.12
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0104	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,277.69	1,421.21
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0105	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,539.43	1,421.21
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0106	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,818.30	1,557.48
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0107	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,021.01	1,557.48
			<i>For NEMA 3R Panelboard, Add</i>	2,052.47	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0108	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,331.66	1,719.72
			<i>For NEMA 3R Panelboard, Add</i>	2,136.20	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0109	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,552.52	1,719.72
			<i>For NEMA 3R Panelboard, Add</i>	2,136.20	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0110			480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0111	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,342.66	441.29
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0112	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,603.24	480.23
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0113	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,866.75	597.04
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0114	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,447.24	726.83
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0115	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,699.43	804.70
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0116	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,928.81	869.59
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0117	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,182.19	947.47
			<i>For NEMA 3R Panelboard, Add</i>	1,579.99	
26 24 16 00-0118	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,425.80	1,025.34
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0119	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,648.20	1,090.24
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0120	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,887.22	1,155.14
			<i>For NEMA 3R Panelboard, Add</i>	1,737.56	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 24 16 00-0121	EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	5,146.31		1,233.01
	For NEMA 3R Panelboard, Add	1,737.56		
	For Door-In-Door (Hinged) Trim Front, Add	126.97		
26 24 16 00-0122	EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	5,430.00		1,330.35
	For NEMA 3R Panelboard, Add	1,737.56		
	For Door-In-Door (Hinged) Trim Front, Add	126.97		
26 24 16 00-0123	EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	6,811.25		1,479.61
	For NEMA 3R Panelboard, Add	2,052.47		
	For Door-In-Door (Hinged) Trim Front, Add	216.84		
26 24 16 00-0124	EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	7,083.04		1,570.46
	For NEMA 3R Panelboard, Add	2,052.47		
	For Door-In-Door (Hinged) Trim Front, Add	216.84		
26 24 16 00-0125	EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers	7,274.69		1,609.40
	For NEMA 3R Panelboard, Add	2,052.47		
	For Door-In-Door (Hinged) Trim Front, Add	216.84		
26 24 16 00-0126	EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	7,580.99		1,713.23
	For NEMA 3R Panelboard, Add	2,052.47		
	For Door-In-Door (Hinged) Trim Front, Add	216.84		
26 24 16 00-0127	EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	7,792.35		1,778.13
	For NEMA 3R Panelboard, Add	2,136.20		
	For Door-In-Door (Hinged) Trim Front, Add	277.14		
26 24 16 00-0128	EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers	8,011.72		1,833.94
	For NEMA 3R Panelboard, Add	2,136.20		
	For Door-In-Door (Hinged) Trim Front, Add	277.14		
26 24 16 00-0129	277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)			
26 24 16 00-0130	EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	2,239.09		454.27
	For NEMA 3R Panelboard, Add	1,579.99		
26 24 16 00-0131	EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	2,535.74		454.27
	For NEMA 3R Panelboard, Add	1,579.99		
26 24 16 00-0132	EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,824.50		603.53
	For NEMA 3R Panelboard, Add	1,579.99		
26 24 16 00-0133	EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	3,115.69		603.53
	For NEMA 3R Panelboard, Add	1,579.99		
26 24 16 00-0134	EA 100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers	3,411.74		746.29
	For NEMA 3R Panelboard, Add	1,579.99		
26 24 16 00-0135	EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,701.49		746.29
	For NEMA 3R Panelboard, Add	1,579.99		
26 24 16 00-0136	EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,996.16		895.55
	For NEMA 3R Panelboard, Add	1,579.99		
26 24 16 00-0137	EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	4,289.54		895.55
	For NEMA 3R Panelboard, Add	1,737.56		
	For Door-In-Door (Hinged) Trim Front, Add	126.97		
26 24 16 00-0138	EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers	4,610.83		1,051.31
	For NEMA 3R Panelboard, Add	1,737.56		
	For Door-In-Door (Hinged) Trim Front, Add	126.97		
26 24 16 00-0139	EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers	4,878.67		1,051.31
	For NEMA 3R Panelboard, Add	1,737.56		
	For Door-In-Door (Hinged) Trim Front, Add	126.97		
26 24 16 00-0140	EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers	5,162.10		1,057.80
	For NEMA 3R Panelboard, Add	1,737.56		
	For Door-In-Door (Hinged) Trim Front, Add	126.97		
26 24 16 00-0141	EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers	5,464.39		1,057.80
	For NEMA 3R Panelboard, Add	1,737.56		
	For Door-In-Door (Hinged) Trim Front, Add	126.97		
26 24 16 00-0142	EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers	6,227.20		1,466.63
	For NEMA 3R Panelboard, Add	2,052.47		
	For Door-In-Door (Hinged) Trim Front, Add	216.84		
26 24 16 00-0143	EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	6,536.30		1,466.63
	For NEMA 3R Panelboard, Add	2,052.47		
	For Door-In-Door (Hinged) Trim Front, Add	216.84		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0144	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,773.12	1,544.50
		For NEMA 3R Panelboard, Add.....	2,052.47	
		For Door-In-Door (Hinged) Trim Front, Add.....	216.84	
26 24 16 00-0145	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,111.37	1,648.34
		For NEMA 3R Panelboard, Add.....	2,052.47	
		For Door-In-Door (Hinged) Trim Front, Add.....	216.84	
26 24 16 00-0146	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,364.75	1,648.34
		For NEMA 3R Panelboard, Add.....	2,136.20	
		For Door-In-Door (Hinged) Trim Front, Add.....	277.14	
26 24 16 00-0147	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	7,741.05	1,804.09
		For NEMA 3R Panelboard, Add.....	2,136.20	
		For Door-In-Door (Hinged) Trim Front, Add.....	277.14	
26 24 16 00-0148 277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards (26 24 16 00-0002)				
26 24 16 00-0149	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,903.81	558.10
		For NEMA 3R Panelboard, Add.....	1,579.99	
26 24 16 00-0150	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	3,207.68	558.10
		For NEMA 3R Panelboard, Add.....	1,579.99	
26 24 16 00-0151	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,499.77	739.81
		For NEMA 3R Panelboard, Add.....	1,579.99	
26 24 16 00-0152	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	4,169.61	739.81
		For NEMA 3R Panelboard, Add.....	1,579.99	
26 24 16 00-0153	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	4,451.96	934.49
		For NEMA 3R Panelboard, Add.....	1,579.99	
26 24 16 00-0154	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	4,733.86	934.49
		For NEMA 3R Panelboard, Add.....	1,579.99	
26 24 16 00-0155	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	5,005.98	1,070.78
		For NEMA 3R Panelboard, Add.....	1,579.99	
26 24 16 00-0156	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	5,256.90	1,070.78
		For NEMA 3R Panelboard, Add.....	1,737.56	
		For Door-In-Door (Hinged) Trim Front, Add.....	126.97	
26 24 16 00-0157	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,524.43	1,220.03
		For NEMA 3R Panelboard, Add.....	1,737.56	
		For Door-In-Door (Hinged) Trim Front, Add.....	126.97	
26 24 16 00-0158	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,812.03	1,220.03
		For NEMA 3R Panelboard, Add.....	1,737.56	
		For Door-In-Door (Hinged) Trim Front, Add.....	126.97	
26 24 16 00-0159	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	6,058.31	1,349.82
		For NEMA 3R Panelboard, Add.....	1,737.56	
		For Door-In-Door (Hinged) Trim Front, Add.....	126.97	
26 24 16 00-0160	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,317.16	1,349.82
		For NEMA 3R Panelboard, Add.....	1,737.56	
		For Door-In-Door (Hinged) Trim Front, Add.....	126.97	
26 24 16 00-0161	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	8,229.48	1,596.42
		For NEMA 3R Panelboard, Add.....	2,052.47	
		For Door-In-Door (Hinged) Trim Front, Add.....	216.84	
26 24 16 00-0162	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,545.09	1,596.42
		For NEMA 3R Panelboard, Add.....	2,052.47	
		For Door-In-Door (Hinged) Trim Front, Add.....	216.84	
26 24 16 00-0163	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,775.83	1,745.69
		For NEMA 3R Panelboard, Add.....	2,052.47	
		For Door-In-Door (Hinged) Trim Front, Add.....	216.84	
26 24 16 00-0164	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	9,129.50	1,745.69
		For NEMA 3R Panelboard, Add.....	2,052.47	
		For Door-In-Door (Hinged) Trim Front, Add.....	216.84	
26 24 16 00-0165	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	9,382.13	1,907.92
		For NEMA 3R Panelboard, Add.....	2,136.20	
		For Door-In-Door (Hinged) Trim Front, Add.....	277.14	
26 24 16 00-0166	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,643.65	1,907.92
		For NEMA 3R Panelboard, Add.....	2,136.20	
		For Door-In-Door (Hinged) Trim Front, Add.....	277.14	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0167 EA 400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	11,428.19	2,124.67
For NEMA 3R Panelboard, Add	2,136.20	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0168 EA 600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	13,907.51	2,550.39
For NEMA 3R Panelboard, Add	2,136.20	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0169 Unassembled Lighting And Power Panelboards (26 24 16 00-0001) Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0172 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	709.56	
26 24 16 00-0173 EA 100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	816.98	
26 24 16 00-0174 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,114.94	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0175 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,287.40	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0176 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,457.31	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0177 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,630.92	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0178 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,771.11	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0179 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,940.02	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0180 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,119.05	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0181 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,259.00	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0182 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,468.73	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0184 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,056.26	
26 24 16 00-0185 EA 100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,197.72	
26 24 16 00-0186 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,920.95	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0187 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,134.03	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0188 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,334.78	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0189 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,037.48	
For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0190 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,279.07	
For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0191 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,496.66	
For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0193	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,428.81	
26 24 16 00-0194	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,528.01	
26 24 16 00-0195	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,808.84	
26 24 16 00-0196	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,977.89	
26 24 16 00-0197	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,134.78	
26 24 16 00-0198	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,441.28	
26 24 16 00-0199	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,572.56	
26 24 16 00-0200	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,733.25	
26 24 16 00-0201	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,975.31	
26 24 16 00-0202	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,110.17	
26 24 16 00-0203	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,307.13	
26 24 16 00-0204		Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards (26 24 16 00-0170)		
26 24 16 00-0205	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,767.29	
26 24 16 00-0206	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,899.85	
26 24 16 00-0207	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,747.75	
26 24 16 00-0208	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,944.39	
26 24 16 00-0209	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,132.81	
26 24 16 00-0210	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,818.38	
26 24 16 00-0211	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	5,051.75	
26 24 16 00-0212	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	5,267.29	
26 24 16 00-0213		240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0169)		
		Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers		
26 24 16 00-0214		Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)		
26 24 16 00-0215	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	800.18	
26 24 16 00-0216	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	941.49	
26 24 16 00-0217	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,060.62	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0218	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,202.54	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0219	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,384.48	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0220	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,533.64	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0221	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,768.64	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0222	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,906.36	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0223	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,058.67	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0224	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,271.82	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0225	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,506.39	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0226	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,962.22	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase				
Unassembled Panelboards (26 24 16 00-0213)				
26 24 16 00-0228	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,238.04	
26 24 16 00-0229	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,396.66	
26 24 16 00-0230	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,605.76	
		For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0231	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,375.61	
		For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0232	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,572.96	
		For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0233	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,758.46	
		For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0234	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,812.60	
		For Door-In-Door (Hinged) Trim Front, Add	126.97	
26 24 16 00-0235	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,037.66	
		For Door-In-Door (Hinged) Trim Front, Add	216.84	
26 24 16 00-0236	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,224.20	
		For Door-In-Door (Hinged) Trim Front, Add	277.14	
26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase				
Unassembled Panelboards (26 24 16 00-0213)				
26 24 16 00-0238	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,519.43	
26 24 16 00-0239	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,652.52	
26 24 16 00-0240	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,762.75	
26 24 16 00-0241	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,896.45	
26 24 16 00-0242	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,074.96	
26 24 16 00-0243	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,211.11	
26 24 16 00-0244	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,579.00	
26 24 16 00-0245	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,707.81	
26 24 16 00-0246	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,851.91	
26 24 16 00-0247	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,128.08	
26 24 16 00-0248	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,346.89	
26 24 16 00-0249	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,802.71	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards (26 24 16 00-0213)				
26 24 16 00-0251	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,949.07	
26 24 16 00-0252	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,098.79	
26 24 16 00-0253	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,303.10	
26 24 16 00-0254	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,202.40	
26 24 16 00-0255	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,383.32	
26 24 16 00-0256	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,556.49	
26 24 16 00-0257	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,311.65	
26 24 16 00-0258	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,543.84	
26 24 16 00-0259	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,742.43	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0169)				
Note: As manufactured by Square D or equal.				

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR
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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 16 00-0261	Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)	
26 24 16 00-0262	EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,144.09
26 24 16 00-0263	EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,256.64
26 24 16 00-0264	EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,736.79
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97
26 24 16 00-0265	EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,937.33
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84
26 24 16 00-0266	EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,110.86
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14
26 24 16 00-0267	EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,108.94
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97
26 24 16 00-0268	EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,223.52
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84
26 24 16 00-0269	EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,416.15
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14
26 24 16 00-0270	EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,562.14
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97
26 24 16 00-0271	EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,746.47
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84
26 24 16 00-0272	EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,999.93
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14
26 24 16 00-0273	Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)	
26 24 16 00-0274	EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,339.42
26 24 16 00-0275	EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,413.23
26 24 16 00-0276	EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,620.29
26 24 16 00-0277	EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,762.23
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97
26 24 16 00-0278	EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,047.09
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84
26 24 16 00-0279	EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,959.67
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97
26 24 16 00-0280	EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,135.86
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84
26 24 16 00-0281	EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,363.49
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14
26 24 16 00-0282	EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,509.23
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97
26 24 16 00-0283	EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,749.56
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84
26 24 16 00-0284	EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,966.77
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14
26 24 16 00-0285	Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)	
26 24 16 00-0286	EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,838.69
26 24 16 00-0287	EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,951.24
26 24 16 00-0288	EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,414.95
26 24 16 00-0289	EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,734.68
26 24 16 00-0290	EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,894.50
26 24 16 00-0291	EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,892.58



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0292	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,986.61	
26 24 16 00-0293	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,149.79	
26 24 16 00-0294	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,364.27	
26 24 16 00-0295	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,531.84	
26 24 16 00-0296	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,749.28	
26 24 16 00-0297		Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards (26 24 16 00-0260)			
26 24 16 00-0298	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,181.97	
26 24 16 00-0299	EA	100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,255.78	
26 24 16 00-0300	EA	125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,304.61	
26 24 16 00-0301	EA	125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,440.38	
26 24 16 00-0302	EA	125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,844.43	
26 24 16 00-0303	EA	250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		4,743.31	
26 24 16 00-0304	EA	250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		4,898.95	
26 24 16 00-0305	EA	250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		5,097.12	
26 24 16 00-0306	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		5,242.86	
26 24 16 00-0307	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		5,464.38	
26 24 16 00-0308	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		5,678.73	
26 24 16 00-0309		480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0169) Note: As manufactured by Square D or equal.			
26 24 16 00-0310		Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)			
26 24 16 00-0311	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		1,190.67	
26 24 16 00-0312	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		1,303.91	
26 24 16 00-0313	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		1,509.30	
		For Door-In-Door (Hinged) Trim Front, Add		126.97	
26 24 16 00-0314	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		1,805.34	
		For Door-In-Door (Hinged) Trim Front, Add		126.97	
26 24 16 00-0315	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		2,007.39	
		For Door-In-Door (Hinged) Trim Front, Add		216.84	
26 24 16 00-0316	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		2,179.60	
		For Door-In-Door (Hinged) Trim Front, Add		277.14	
26 24 16 00-0317	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		2,199.51	
		For Door-In-Door (Hinged) Trim Front, Add		126.97	
26 24 16 00-0318	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		2,335.86	
		For Door-In-Door (Hinged) Trim Front, Add		216.84	
26 24 16 00-0319	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		2,527.03	
		For Door-In-Door (Hinged) Trim Front, Add		277.14	
26 24 16 00-0320	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		2,673.24	
		For Door-In-Door (Hinged) Trim Front, Add		126.97	
26 24 16 00-0321	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		2,858.49	
		For Door-In-Door (Hinged) Trim Front, Add		216.84	
26 24 16 00-0322	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard		3,112.92	
		For Door-In-Door (Hinged) Trim Front, Add		277.14	
26 24 16 00-0323		Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)			
26 24 16 00-0324	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		2,579.17	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0325	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,653.66	
26 24 16 00-0326	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,875.88	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0327	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,949.86	
26 24 16 00-0328	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,092.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0329	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,376.49	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0330	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,346.23	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0331	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,524.53	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0332	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,749.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0333	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,972.43	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	126.97	
26 24 16 00-0334	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,215.04	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	216.84	
26 24 16 00-0335	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,432.13	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	277.14	
26 24 16 00-0336		Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0337	EA	125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,885.27	
26 24 16 00-0338	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,998.50	
26 24 16 00-0339	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,193.62	
26 24 16 00-0340	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,483.50	
26 24 16 00-0341	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,804.73	
26 24 16 00-0342	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,963.24	
26 24 16 00-0343	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,985.21	
26 24 16 00-0344	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,098.95	
26 24 16 00-0345	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,260.66	
26 24 16 00-0346	EA	600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,475.37	
26 24 16 00-0347	EA	600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,643.50	
26 24 16 00-0348	EA	600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,860.94	
26 24 16 00-0349		Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards (26 24 16 00-0309)		
26 24 16 00-0350	EA	100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,257.32	
26 24 16 00-0351	EA	100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,331.82	
26 24 16 00-0352	EA	100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,673.22	
26 24 16 00-0353	EA	125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,634.18	
26 24 16 00-0354	EA	125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,770.52	
26 24 16 00-0355	EA	125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,173.84	
26 24 16 00-0356	EA	250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,129.87	
26 24 16 00-0357	EA	250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,287.63	
26 24 16 00-0358	EA	250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,483.40	
26 24 16 00-0359	EA	400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,706.07	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
26 24 16 00-0360	EA	400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		5,929.50		
26 24 16 00-0361	EA	400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		6,143.16		
26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0169)						
Note: Square D I-Line or equal.						
26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)						
26 24 16 00-0364	EA	400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		2,053.44		386.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				231.64		
26 24 16 00-0365	EA	400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		2,396.80		385.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				231.57		
26 24 16 00-0366	EA	400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		2,655.37		385.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				231.57		
26 24 16 00-0367	EA	600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		3,051.90		633.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				380.29		
26 24 16 00-0368	EA	600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		3,252.03		633.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				380.29		
26 24 16 00-0369	EA	600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		3,471.63		633.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				380.29		
26 24 16 00-0370	EA	800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		3,769.47		842.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				505.50		
26 24 16 00-0371	EA	800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		3,962.36		845.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				507.05		
26 24 16 00-0372	EA	800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		4,040.43		842.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				505.50		
26 24 16 00-0373	EA	800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		4,675.34		842.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				505.50		
26 24 16 00-0374	EA	1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		6,113.55		1,267.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				760.57		
26 24 16 00-0375	EA	1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		6,545.67		1,267.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				760.57		
26 24 16 00-0376	EA	1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		6,898.99		1,267.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				760.57		
26 24 16 00-0377	EA	1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		7,330.23		1,267.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				760.57		
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards (26 24 16 00-0362)						
26 24 16 00-0379	EA	225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		3,926.63		394.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				236.52		
26 24 16 00-0380	EA	400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		5,146.49		447.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				268.29		
26 24 16 00-0381	EA	400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		5,396.20		447.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				268.29		
26 24 16 00-0382	EA	400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		6,131.16		447.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				268.29		
26 24 16 00-0383	EA	600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		8,014.27		732.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				439.80		
26 24 16 00-0384	EA	600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		8,427.28		734.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				440.97		
26 24 16 00-0385	EA	600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		8,766.95		732.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				439.80		
26 24 16 00-0386	EA	800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		10,139.23		979.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				587.96		
26 24 16 00-0387	EA	800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....		10,627.31		976.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add				585.88		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0388	EA	800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	11,114.34	976.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>				585.88	
26 24 16 00-0389		Residential Lighting And Power Panelboards (26 24 16 00-0001) See CSI section 26 28 16 13-0001 for circuit breakers.			
26 24 16 00-0390		Residential Type Unassembled Load Center (26 24 16 00-0389) Note: Interior box and cover, includes ground bar kit.			
26 24 16 00-0391		Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)			
26 24 16 00-0392	EA	30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	173.11	64.89	
26 24 16 00-0393	EA	70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	583.53	259.58	
26 24 16 00-0394	EA	100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	880.42	370.55	
26 24 16 00-0395	EA	125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	1,880.96	778.87	
26 24 16 00-0396	EA	150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,056.48	843.64	
26 24 16 00-0397		Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.			
26 24 16 00-0398	EA	60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	239.76	71.38	
26 24 16 00-0399	EA	125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	425.66	77.87	
26 24 16 00-0400		Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)			
26 24 16 00-0401	EA	40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	243.73	71.38	
26 24 16 00-0402	EA	70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	271.72	77.87	
26 24 16 00-0403	EA	100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	959.80	370.55	
26 24 16 00-0404	EA	150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,177.28	843.64	
26 24 16 00-0405		Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.			
26 24 16 00-0406	EA	60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	300.16	71.38	
26 24 16 00-0407	EA	125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	2,102.03	778.87	
26 24 16 00-0408		Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt (26 24 16 00-0390)			
26 24 16 00-0409	EA	125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,257.17	778.87	
26 24 16 00-0410	EA	150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,449.94	843.64	
26 24 16 00-0411	EA	300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	8,488.51	1,297.91	
26 24 16 00-0412		Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.			
26 24 16 00-0413	EA	125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,259.48	778.87	
26 24 16 00-0414	EA	150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,554.93	843.64	
26 24 16 00-0415	EA	300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	9,331.88	1,297.91	
26 24 16 00-0416		Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof (26 24 16 00-0390)			
26 24 16 00-0417	EA	125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,369.34	778.87	
26 24 16 00-0418	EA	150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,641.50	843.64	
26 24 16 00-0419		Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC (26 24 16 00-0390) Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.			
26 24 16 00-0420	EA	125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard	3,445.51	778.87	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 24 16 00-0421	EA	155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....			
			3,575.12		843.64
26 24 16 00-0422		Residential Type Assembled Load Center (26 24 16 00-0389)			
26 24 16 00-0423		Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)			
		Note: Includes 1 pole plug-in breaker.			
26 24 16 00-0424	EA	100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	880.93		370.55
26 24 16 00-0425	EA	100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,071.09		432.85
26 24 16 00-0426	EA	100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	899.92		370.55
26 24 16 00-0427	EA	100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,076.27		432.85
26 24 16 00-0428	EA	200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,557.72		576.92
26 24 16 00-0429	EA	200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,838.75		692.43
26 24 16 00-0430	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,103.26		798.86
26 24 16 00-0431	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,316.37		864.80
26 24 16 00-0432	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,467.31		1,297.91
26 24 16 00-0433	EA	200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,625.03		576.92
26 24 16 00-0434	EA	200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,902.60		692.43
26 24 16 00-0435	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,167.11		798.86
26 24 16 00-0436	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,376.77		864.80
26 24 16 00-0437	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,665.77		1,297.91
26 24 16 00-0438	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,256.19		1,442.11
26 24 16 00-0439	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,463.28		1,442.11
26 24 16 00-0440		Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422)			
		Note: Includes 1 pole plug-in breaker.			
26 24 16 00-0441	EA	125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,167.73		432.85
26 24 16 00-0442	EA	125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,741.42		648.95
26 24 16 00-0443	EA	125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,224.68		432.85
26 24 16 00-0444	EA	125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,793.20		648.95
26 24 16 00-0445	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,201.63		798.86
26 24 16 00-0446	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,403.58		865.31
26 24 16 00-0447	EA	200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,940.18		1,038.72
26 24 16 00-0448	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,536.34		1,297.91
26 24 16 00-0449	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,262.03		798.86
26 24 16 00-0450	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,471.69		864.80
26 24 16 00-0451	EA	200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,171.83		1,037.93
26 24 16 00-0452	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,769.31		1,297.91
26 24 16 00-0453	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,307.96		1,442.11
26 24 16 00-0454	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,515.05		1,442.11
26 24 16 00-0455		Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase (26 24 16 00-0422)			
		Note: Includes 1 pole plug-in breaker.			
26 24 16 00-0456	EA	125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,160.83		432.85
26 24 16 00-0457	EA	125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,717.26		648.95
26 24 16 00-0458	EA	200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,980.26		692.43

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0459	EA	200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,271.45	799.25
26 24 16 00-0460	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,498.49	865.31
26 24 16 00-0461	EA	200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,308.73	1,153.83
26 24 16 00-0462	EA	200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,997.52	692.43
26 24 16 00-0463	EA	200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,305.17	798.86
26 24 16 00-0464	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,506.20	864.80
26 24 16 00-0465	EA	200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,213.81	1,153.83
26 24 16 00-0466	EA	400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,033.70	1,442.11
26 24 16 00-0467	EA	400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,378.85	1,442.11
26 24 16 00-0468		Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt (26 24 16 00-0422) Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,981.70	865.31
26 24 16 00-0470	EA	200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,088.57	1,297.91
26 24 16 00-0471	EA	200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,084.32	864.80
26 24 16 00-0472	EA	200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,192.12	1,297.91
26 24 16 00-0473		Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)		
26 24 16 00-0474		Midget Finger-Safe Fuse Holders (26 24 16 00-0473) Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475	EA	1 Pole Midget Finger-Safe Fuse Holder	82.20	23.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 24 16 00-0476	EA	1 Pole With Indicator Midget Finger-Safe Fuse Holder	96.54	23.36
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 24 16 00-0477	EA	2 Pole Midget Finger-Safe Fuse Holder	132.40	35.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 24 16 00-0478	EA	2 Pole With Indicators Midget Finger-Safe Fuse Holder	169.84	35.04
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 24 16 00-0479	EA	3 Pole Midget Finger-Safe Fuse Holder	194.23	46.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 24 16 00-0480	EA	3 Pole With Indicators Midget Finger-Safe Fuse Holder	243.95	46.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 24 16 00-0481	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	285.54	46.72
		Note: With indicators.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 24 16 00-0482	EA	3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder	230.40	46.72
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 24 16 00-0483	EA	4 Pole Midget Finger-Safe Fuse Holder	244.59	58.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 24 16 00-0484	EA	4 Pole With Indicator Midget Finger-Safe Fuse Holder	299.19	58.40
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 24 16 00-0485	EA	12 To 24 Volt DC Midget Finger-Safe Fuse Holder	96.59	23.36
		Note: With indicator.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 24 16 00-0486	EA	20 To 24 Volt DC Midget Finger-Safe Fuse Holder	104.20	23.36
		Note: With indicator.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 24 16 00-0487	EA	35 To 48 Volt DC Midget Finger-Safe Fuse Holder	97.99	23.36
		Note: With indicator.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 24 16 00-0488		Removal And Reinstallation Of Panelboards (26 24 16 00-0001) Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489	EA	Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers	1,629.34	
		Note: Includes removal and reinstallation of main wiring to panelboard.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	486.71	
26 24 16 00-0490	EA	Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage	86.36	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.31	
26 24 16 00-0491	EA	Panelboard Filler Plate, Fits 1" Opening	6.05	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.22	
26 24 19		Motor-Control Centers (26 24)		
26 24 19 00-0001		Combination Starters With Molded Case Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		



Electrical			26
Low-Voltage Electrical Distribution			26 20
Switchboards and Panelboards			26 24

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 24 19 00-0002	230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)			
Note: 1-Speed non-reversing.				
26 24 19 00-0003	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit	2,545.24		118.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0004	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit	3,013.41		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0005	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit	4,481.06		130.46
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28		
26 24 19 00-0006	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	8,118.53		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0007	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	16,343.10		177.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75		
26 24 19 00-0008	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	27,492.49		237.20
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32		
26 24 19 00-0009	480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)			
Note: 1-Speed non-reversing.				
26 24 19 00-0010	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit	2,545.24		118.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0011	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit	3,013.41		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0012	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit	4,481.06		130.46
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28		
26 24 19 00-0013	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit	8,118.53		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0014	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit	16,343.10		177.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75		
26 24 19 00-0015	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit	27,492.49		237.20
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32		
26 24 19 00-0016	230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)			
Note: 1-Speed reversing.				
26 24 19 00-0017	EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit	3,684.77		118.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0018	EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit	4,908.61		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0019	EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit	7,032.94		130.46
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28		
26 24 19 00-0020	EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	12,300.04		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0021	EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	24,201.55		177.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75		
26 24 19 00-0022	EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	41,702.87		237.20
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32		
26 24 19 00-0023	480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)			
Note: 1-Speed reversing.				
26 24 19 00-0024	EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit	3,684.77		118.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0025	EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit	4,908.61		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0026	EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	7,032.94		130.46
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28		
26 24 19 00-0027	EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	12,300.04		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0028	EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	24,201.55		177.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75		
26 24 19 00-0029	EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit	41,702.87		237.20
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32		
26 24 19 00-0030	230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)			
Note: 2-Speed non-reversing, 2 wind.				
26 24 19 00-0031	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit	4,486.18		189.77
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85		
26 24 19 00-0032	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit	6,166.10		201.62
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.97		
26 24 19 00-0033	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit	9,072.44		213.48
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.09		
26 24 19 00-0034	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit	16,203.15		243.13
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88		
26 24 19 00-0035	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit	26,834.12		284.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.79		
26 24 19 00-0036	480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)			
Note: 2-Speed non-reversing, 2 wind.				
26 24 19 00-0037	EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit	4,486.18		189.77
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 6,166.10 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 120.97		201.62
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 9,072.44 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 128.09		213.48
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 16,203.15 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 145.88		243.13
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 26,834.12 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 170.79		284.64
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit 5,174.38 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 71.16		118.60
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit 7,697.09 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 74.72		124.53
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit 10,533.63 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.28		130.46
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 19,781.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 92.51		154.18
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 34,266.63 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 106.75		177.90
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit 5,174.38 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 71.16		118.60
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit 7,697.09 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 74.72		124.53
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit 10,533.63 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 78.28		130.46
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit 19,781.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 92.51		154.18
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit 34,266.63 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 106.75		177.90
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit 7,648.80		124.53
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit 11,706.75		136.40
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 19,726.33		154.18
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 30,510.03		177.90
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 52,190.45		237.20
26 24 19 00-0060 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit 7,648.80		124.53
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit 11,706.75		136.40
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit 19,726.33		154.18
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit 30,510.03		177.90
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit 52,190.45		237.20
26 24 19 00-0066 230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit 5,232.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 113.85		189.77
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit 6,756.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 131.64		219.41
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit 11,869.53 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 145.88		243.13
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit 20,221.01 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 177.90		296.50
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit 27,777.15 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 227.72		379.52
26 24 19 00-0072 480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit 5,232.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 113.85		189.77
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit 6,756.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 131.64		219.41
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit 11,869.53 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 145.88		243.13
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit 20,221.01 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 177.90		296.50
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit 27,777.15 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 227.72		379.52



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0078	230 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, energy saver.			
26 24 19 00-0079	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	21,568.42	154.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51	
26 24 19 00-0080	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	22,882.90	189.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85	
26 24 19 00-0081	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	25,269.56	219.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.64	
26 24 19 00-0082	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	38,252.66	243.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88	
26 24 19 00-0083	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	52,166.61	296.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90	
26 24 19 00-0084	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	70,792.16	379.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.72	
26 24 19 00-0085	480 Volt Combination With Molded Case Circuit (26 24 19 00-0001) Note: Reducing volt, energy saver.			
26 24 19 00-0086	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	21,568.42	154.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51	
26 24 19 00-0087	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	22,882.90	189.77
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85	
26 24 19 00-0088	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	25,269.56	219.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.64	
26 24 19 00-0089	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	38,252.66	243.13
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88	
26 24 19 00-0090	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	52,166.61	296.50
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90	
26 24 19 00-0091	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	70,792.16	379.52
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.72	
26 24 19 00-0092	Combination Starters With Current Limiting Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.			
26 24 19 00-0093	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.			
26 24 19 00-0094	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,402.31	118.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16	
26 24 19 00-0095	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,870.47	124.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72	
26 24 19 00-0096	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,980.32	130.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28	
26 24 19 00-0097	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	11,013.24	154.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51	
26 24 19 00-0098	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	19,708.59	177.90
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75	
26 24 19 00-0099	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	32,120.64	237.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32	
26 24 19 00-0100	480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.			
26 24 19 00-0101	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,402.31	118.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16	
26 24 19 00-0102	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,870.47	124.53
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72	
26 24 19 00-0103	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,980.32	130.46
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28	
26 24 19 00-0104	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	11,013.24	154.18
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51	
26 24 19 00-0105	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	19,708.59	177.90
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75	
26 24 19 00-0106	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	32,120.64	237.20
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32	
26 24 19 00-0107	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.			
26 24 19 00-0108	EA	230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	4,534.60	118.60
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0109	EA	230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,748.77 74.72	124.53
26 24 19 00-0110	EA	230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,498.40 78.28	130.46
26 24 19 00-0111	EA	230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,156.12 92.51	154.18
26 24 19 00-0112	EA	230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,499.44 106.75	177.90
26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 1-speed reversing.				
26 24 19 00-0114	EA	480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,534.60 71.16	118.60
26 24 19 00-0115	EA	480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,748.77 74.72	124.53
26 24 19 00-0116	EA	480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,498.40 78.28	130.46
26 24 19 00-0117	EA	480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,156.12 92.51	154.18
26 24 19 00-0118	EA	480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,499.44 106.75	177.90
26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 2-speed non-reversing, 2 wind.				
26 24 19 00-0120	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,321.52 113.85	189.77
26 24 19 00-0121	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,989.36 120.97	201.62
26 24 19 00-0122	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,513.76 128.09	213.48
26 24 19 00-0123	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,025.43 145.88	243.13
26 24 19 00-0124	EA	230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,105.46 170.79	284.64
26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 2-speed non-reversing, 2 wind.				
26 24 19 00-0126	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,321.52 113.85	189.77
26 24 19 00-0127	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,989.36 120.97	201.62
26 24 19 00-0128	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,513.76 128.09	213.48
26 24 19 00-0129	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,025.43 145.88	243.13
26 24 19 00-0130	EA	480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,105.46 170.79	284.64
26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 2-speed non-reversing, 1 wind.				
26 24 19 00-0132	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,128.34 106.75	177.90
26 24 19 00-0133	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,636.31 113.85	189.77
26 24 19 00-0134	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,110.03 120.97	201.62
26 24 19 00-0135	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,724.51 138.76	231.27
26 24 19 00-0136	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,662.55 163.68	272.78
26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)				
Note: Full volt, 2-speed non-reversing, 1 wind.				



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,128.34 106.75	177.90
26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,636.31 113.85	189.77
26 24 19 00-0140 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,110.03 120.97	201.62
26 24 19 00-0141 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,724.51 138.76	231.27
26 24 19 00-0142 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,662.55 163.68	272.78
26 24 19 00-0143 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, auto-transformer.		
26 24 19 00-0144 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,460.00 74.72	124.53
26 24 19 00-0145 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,618.85 81.83	136.40
26 24 19 00-0146 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,012.15 92.51	154.18
26 24 19 00-0147 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,858.13 106.75	177.90
26 24 19 00-0148 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57,349.74 142.32	237.20
26 24 19 00-0149 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, auto-transformer.		
26 24 19 00-0150 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,460.00 74.72	124.53
26 24 19 00-0151 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,618.85 81.83	136.40
26 24 19 00-0152 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,012.15 92.51	154.18
26 24 19 00-0153 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,858.13 106.75	177.90
26 24 19 00-0154 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57,349.74 142.32	237.20
26 24 19 00-0155 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, part winding.		
26 24 19 00-0156 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,067.53 113.85	189.77
26 24 19 00-0157 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,575.39 131.64	219.41
26 24 19 00-0158 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,301.20 145.88	243.13
26 24 19 00-0159 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,547.87 177.90	296.50
26 24 19 00-0160 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,735.07 227.72	379.52
26 24 19 00-0161 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, part winding.		
26 24 19 00-0162 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,067.53 113.85	189.77
26 24 19 00-0163 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,575.39 131.64	219.41
26 24 19 00-0164 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,301.20 145.88	243.13
26 24 19 00-0165 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,547.87 177.90	296.50
26 24 19 00-0166 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,735.07 227.72	379.52
26 24 19 00-0167 230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Reduced volt, energy saving		
26 24 19 00-0168 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,261.31 92.51	154.18
26 24 19 00-0169 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,568.56 113.85	189.77
26 24 19 00-0170 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,931.07 131.64	219.41

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0171	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	38,800.70	243.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	145.88	
26 24 19 00-0172	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	52,591.52	296.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.90	
26 24 19 00-0173	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	73,706.18	379.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	227.72	
26 24 19 00-0174			480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)		
			Note: Reduced volt, energy saving		
26 24 19 00-0175	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	22,261.36	154.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.53	
26 24 19 00-0176	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	23,568.56	189.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.85	
26 24 19 00-0177	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	25,931.07	219.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	131.64	
26 24 19 00-0178	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	38,800.70	243.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	145.88	
26 24 19 00-0179	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	52,591.52	296.50
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.90	
26 24 19 00-0180	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	73,706.18	379.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	227.72	
26 24 19 00-0181			Combination Starters With Fusible Switch (26 24 19)		
			Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182			230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
			Note: 1-Speed non-reversing.		
26 24 19 00-0183	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,265.19	118.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0184	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	3,122.05	124.53
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.72	
26 24 19 00-0185	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,258.46	130.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.28	
26 24 19 00-0186	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	9,270.13	154.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.51	
26 24 19 00-0187	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	15,044.23	177.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.75	
26 24 19 00-0188	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	26,828.56	237.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.32	
26 24 19 00-0189			480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
			Note: 1-Speed non-reversing.		
26 24 19 00-0190	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,265.19	118.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0191	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	3,122.05	124.53
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.72	
26 24 19 00-0192	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,258.46	130.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.28	
26 24 19 00-0193	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	9,270.13	154.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.51	
26 24 19 00-0194	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	15,044.23	177.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.75	
26 24 19 00-0195	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	26,828.56	237.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.32	
26 24 19 00-0196			230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)		
			Note: 1-Speed reversing.		
26 24 19 00-0197	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,653.39	118.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0198	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,439.75	124.53
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.72	
26 24 19 00-0199	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,698.79	130.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.28	
26 24 19 00-0200	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	14,173.51	154.18
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.51	
26 24 19 00-0201	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	21,801.76	177.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.75	
26 24 19 00-0202	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	37,055.40	237.20
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142.32	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 24 19 00-0203	480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 1-Speed reversing.			
26 24 19 00-0204	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,653.39		118.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0205	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,439.75		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0206	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,698.79		130.46
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28		
26 24 19 00-0207	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	14,173.51		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0208	EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	21,801.76		177.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75		
26 24 19 00-0209	EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	37,055.40		237.20
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32		
26 24 19 00-0210	230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.			
26 24 19 00-0211	EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	4,283.38		189.77
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85		
26 24 19 00-0212	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,886.04		201.62
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.97		
26 24 19 00-0213	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	9,253.51		213.48
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.09		
26 24 19 00-0214	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	16,517.00		243.13
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88		
26 24 19 00-0215	EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	26,305.40		284.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.79		
26 24 19 00-0216	480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.			
26 24 19 00-0217	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	4,283.38		189.77
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85		
26 24 19 00-0218	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	5,886.04		201.62
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.97		
26 24 19 00-0219	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	9,253.51		213.48
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	128.09		
26 24 19 00-0220	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	16,517.00		243.13
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88		
26 24 19 00-0221	EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter	26,305.40		284.64
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.79		
26 24 19 00-0222	230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.			
26 24 19 00-0223	EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,879.84		118.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0224	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	7,436.35		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0225	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	10,702.63		130.46
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28		
26 24 19 00-0226	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	21,563.59		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0227	480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.			
26 24 19 00-0228	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	4,879.84		118.60
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0229	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	7,436.35		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0230	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	10,702.63		130.46
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.28		
26 24 19 00-0231	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter	21,563.59		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0232	230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181) Note: Auto-transformer.			
26 24 19 00-0233	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	7,385.65		124.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72		
26 24 19 00-0234	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	13,032.19		136.40
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.83		
26 24 19 00-0235	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	21,706.03		154.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51		
26 24 19 00-0236	EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	28,979.38		177.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75		
26 24 19 00-0237	EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer	48,680.10		237.20
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 24 19 00-0238	480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
	Note: Auto-transformer.				
26 24 19 00-0239	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	7,385.65		124.53	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.72			
26 24 19 00-0240	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	13,032.19		136.40	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.83			
26 24 19 00-0241	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	21,706.03		154.18	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51			
26 24 19 00-0242	EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	28,979.38		177.90	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.75			
26 24 19 00-0243	EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	48,680.10		237.20	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32			
26 24 19 00-0244	230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
	Note: Part winding.				
26 24 19 00-0245	EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	5,263.57		189.77	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85			
26 24 19 00-0246	EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,964.58		219.41	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.64			
26 24 19 00-0247	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	11,077.65		243.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88			
26 24 19 00-0248	EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	22,063.10		296.50	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90			
26 24 19 00-0249	480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
	Note: Part winding.				
26 24 19 00-0250	EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	5,263.57		189.77	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85			
26 24 19 00-0251	EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	6,964.58		219.41	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.64			
26 24 19 00-0252	EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	11,077.65		243.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88			
26 24 19 00-0253	EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters.....	22,063.10		296.50	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90			
26 24 19 00-0254	230 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
	Note: Energy saver.				
26 24 19 00-0255	EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	21,566.00		154.18	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51			
26 24 19 00-0256	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	22,882.90		189.77	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85			
26 24 19 00-0257	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	25,269.56		219.41	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.64			
26 24 19 00-0258	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	38,252.66		243.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88			
26 24 19 00-0259	EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	52,166.61		296.50	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90			
26 24 19 00-0260	EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	70,792.16		379.52	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.72			
26 24 19 00-0261	480 Volt Combination Starters With Fusible Switch, Reduced Volt (26 24 19 00-0181)				
	Note: Energy saver.				
26 24 19 00-0262	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	21,566.00		154.18	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.51			
26 24 19 00-0263	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	22,882.90		189.77	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.85			
26 24 19 00-0264	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	25,269.56		219.41	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.64			
26 24 19 00-0265	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	38,252.66		243.13	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	145.88			
26 24 19 00-0266	EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	52,166.61		296.50	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90			
26 24 19 00-0267	EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP.....	70,792.16		379.52	
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	227.72			
26 24 19 00-0268	Starter Accessories (26 24 19)				
	Note: Additional options or accessories for the Combination Starters				



Electrical		26
Low-Voltage Electrical Distribution		26 20
Switchboards and Panelboards		26 24

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0269 Starter Modifications (26 24 19 00-0268)		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer	194.20	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer	376.63	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer	538.38	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes	135.20	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes	190.73	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes	321.10	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter	79.67	
26 24 19 00-0277 EA N.O. Overload Relay Alarm	67.60	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary	131.54	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	162.63	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	318.09	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	162.63	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V	186.55	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer	224.82	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To	265.48	
26 24 19 00-0285 EA Blank Devices Panel	50.23	
26 24 19 00-0286 EA Oversize Or Special Color Starter	78.93	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer	693.29	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non-Resettable	628.72	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable	932.76	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	78.93	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	112.41	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard	78.93	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In	112.41	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	112.41	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	162.63	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay	404.19	
26 24 19 00-0297 EA Heater Module	82.16	
26 24 19 00-0298 EA LAM - Long Acceleration Module	510.40	
26 24 19 00-0299 EA JAM - Jam Protection Module	585.09	
26 24 19 00-0300 EA PUM - Phase Unbalance Module	1,110.43	
26 24 19 00-0301 EA ULM - Underload Module	532.81	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer	117.02	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit	219.10	
26 24 19 00-0304 EA Type SIS Control Wire	92.12	
26 24 19 00-0305 EA Ring Or Spade Terminals Control	117.02	
26 24 19 00-0306 EA Ring Terminals Power	117.02	
26 24 19 00-0307 EA 14 Gauge Control Wire	92.12	
26 24 19 00-0308 EA Wiring Diagram On Door	69.71	
26 24 19 00-0309 EA Special Color Or Type Control Wire	84.65	
26 24 19 00-0310 EA Current Transformer 12.5 VA	664.76	
26 24 19 00-0311 EA Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4	2,123.76	
26 24 19 00-0312 EA Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6	2,390.16	
26 24 19 00-0313 Control Relays And Special Components (26 24 19 00-0268)		
26 24 19 00-0314 EA 600 Volt, 2 Pole, Control Relays	603.15	
26 24 19 00-0315 EA 600 Volt, 4 Pole, Control Relays	712.68	
26 24 19 00-0316 EA 600 Volt, 6 Pole, Control Relays	834.08	
26 24 19 00-0317 EA 600 Volt, 8 Pole, Control Relays	928.02	
26 24 19 00-0318 EA Pneumatic Timer, Control Relays	801.61	
26 24 19 00-0319 EA Motor Driven Timer, Control Relays	2,088.88	
26 24 19 00-0320 EA 7 Days Time Switch, Control Relays	2,629.14	
26 24 19 00-0321 EA 24 Hour Time Switch, Control Relays	737.25	
26 24 19 00-0322 EA Phase Voltage, Control Relays	1,254.11	
26 24 19 00-0323 EA Two Circuit Alternator, Control Relays	1,755.36	
26 24 19 00-0324 EA Manual 120 Volt, Control Relays	171.64	
26 24 19 00-0325 EA Over-Current Relay, Control Relays	4,750.45	
26 24 19 00-0326 EA UV-Relay, Control Relays	4,023.44	
26 24 19 00-0327 EA Over-Current Relay, Control Relays	4,023.44	
26 24 19 00-0328 EA Teleductor, Control Relays	1,293.11	
26 24 19 00-0329 EA Current Transducer, Control Relays	3,477.56	
26 24 19 00-0330 EA Watt Transducer, Control Relays	6,955.12	
26 24 19 00-0331 EA Control Relays, Blank, Add For Each 1x	236.00	
26 24 19 00-0332 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway	353.02	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway	397.88	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway	442.74	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway	397.88	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway	442.74	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway	466.15	
26 24 19 00-0338 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)		
26 24 19 00-0339 EA Shunt Trip, Circuit Breaker	482.15	
26 24 19 00-0340 EA Auxiliary Switch, Circuit Breaker	166.54	
26 24 19 00-0341 EA Key Interlock, Circuit Breaker	598.99	
26 24 19 00-0342 EA GFR Ground Fault, Circuit Breaker	2,761.27	
26 24 19 00-0343 EA Seltronic Breaker, Circuit Breaker	1,599.55	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 19 00-0344 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)			
26 24 19 00-0345	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100	1,689.63	77.09
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.25	
26 24 19 00-0346	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150	2,927.84	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0347	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100	2,825.68	77.09
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.25	
26 24 19 00-0348	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150	4,061.50	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0349	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150	5,219.07	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0350	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250	3,219.09	154.18
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.53	
26 24 19 00-0351	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400	5,227.91	166.04
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.64	
26 24 19 00-0352	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600	6,896.28	213.48
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.03	
26 24 19 00-0353	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800	8,107.39	326.15
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	195.76	
26 24 19 00-0354	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200	11,479.87	492.19
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.55	
26 24 19 00-0355	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000	25,194.00	652.31
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	391.05	
26 24 19 00-0356	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500	37,656.27	818.35
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	490.55	
26 24 19 00-0357	EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000	62,851.24	948.69
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	569.78	
26 24 19 00-0358	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	2,031.64	77.09
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.25	
26 24 19 00-0359	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150	3,260.28	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0360	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	2,031.64	77.09
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.25	
26 24 19 00-0361	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50	3,260.28	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0362	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150	3,459.47	77.09
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.25	
26 24 19 00-0363	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150	4,735.95	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0364	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50	5,879.17	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0365	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100	3,095.26	118.60
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.16	
26 24 19 00-0366	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400	7,839.52	326.15
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	195.76	
26 24 19 00-0367	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225	7,839.52	326.15
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	195.76	
26 24 19 00-0368	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400	10,565.03	355.81
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	213.39	
26 24 19 00-0369	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600	13,194.84	415.11
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	248.96	
26 24 19 00-0370	EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800	15,182.19	492.19
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.55	
26 24 19 00-0371 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)			
26 24 19 00-0372	EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches	1,994.97	118.60
26 24 19 00-0373	EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	3,087.97	118.60
26 24 19 00-0374	EA 100 Amperes, Incoming Line And Feeder Fusible Switches	2,922.57	148.25
26 24 19 00-0375	EA 200 Amperes, Incoming Line And Feeder Fusible Switches	4,754.18	177.90
26 24 19 00-0376	EA 400 Amperes, Incoming Line And Feeder Fusible Switches	9,374.16	225.34
26 24 19 00-0377	EA 600 Amperes, Incoming Line And Feeder Fusible Switches	13,149.34	296.50
26 24 19 00-0378	EA 800 Amperes, Incoming Line And Feeder Fusible Switches	31,988.77	397.31
26 24 19 00-0379	EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches	36,088.66	551.49
26 24 19 00-0380 Dry Type Distribution Transformers (26 24 19 00-0268)			
26 24 19 00-0381	EA 500 VA, Phase 1, Dry Type Distribution Transformers	1,631.13	
26 24 19 00-0382	EA 750 VA, Phase 1, Dry Type Distribution Transformers	1,683.74	
26 24 19 00-0383	EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	1,738.75	
26 24 19 00-0384	EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	1,994.66	
26 24 19 00-0385	EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	2,162.08	
26 24 19 00-0386	EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,671.50	
26 24 19 00-0387	EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	2,941.77	
26 24 19 00-0388	EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	3,314.87	
26 24 19 00-0389	EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	7,706.00	
26 24 19 00-0390	EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	4,089.77	
26 24 19 00-0391	EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	5,665.89	
26 24 19 00-0392	EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	8,830.09	
26 24 19 00-0393	EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	8,177.16	
26 24 19 00-0394	EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	11,331.78	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Switchboards and Panelboards		26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0395 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	12,772.43	
26 24 19 00-0396 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	17,692.19	
26 24 19 00-0397 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0398 EA Metering Equipment, Voltmeter, Panel Type	770.12	
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Switchboard Type	1,683.74	
26 24 19 00-0400 EA Metering Equipment, Ammeter, Panel	693.59	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Switchboard Type	1,683.74	
26 24 19 00-0402 EA Metering Equipment, Voltmeter/Ammeter, Switch	935.15	
26 24 19 00-0403 EA Metering Equipment, Control Switch, 4 Circuits	992.55	
26 24 19 00-0404 EA Add For Additional Circuits	136.94	
26 24 19 00-0405 EA Metering Equipment, Indicating Wattmeter	3,472.72	
26 24 19 00-0406 EA Metering Equipment, Indicating Power Factor	3,637.75	
26 24 19 00-0407 EA Metering Equipment, Integrating Watt-hour	3,207.24	
26 24 19 00-0408 EA Add For Demand Attachment	896.31	
26 24 19 00-0409 EA 800 Amperes, Metering Equipment, Current Transformer	959.06	
26 24 19 00-0410 EA 1,000 Amperes, Metering Equipment, Current Transformer	1,655.04	
26 24 19 00-0411 EA 2,000 Amperes, Metering Equipment, Current Transformer	1,927.70	
26 24 19 00-0412 EA Metering Equipment, Potential Transformer	1,607.21	
26 24 19 00-0413 EA Metering Equipment, Surge Arrester	1,729.19	
26 24 19 00-0414 EA Metering Equipment, Ground Detector System	1,322.60	
26 24 19 00-0415 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0416 EA 600 Amperes, Current Limiting Reactors	29,520.52	
26 24 19 00-0417 EA 800 Amperes, Current Limiting Reactors	42,990.46	
26 24 19 00-0418 EA 1,000 Amperes, Current Limiting Reactors	56,491.50	
26 24 19 00-0419 EA 1,200 Amperes, Current Limiting Reactors	85,990.50	
26 24 19 00-0420 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0421 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	523.90	
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	523.90	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	724.28	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,325.43	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	724.28	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	924.66	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	924.66	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,323.02	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	924.66	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp	1,323.02	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw	1,125.05	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp	3,647.96	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw	1,125.05	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp	1,323.02	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw	3,647.96	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp	3,647.96	
26 24 19 00-0437 EA Bus Duct Transition Pull Box	1,190.71	
26 24 19 00-0438 EA Throat And Transition To Substation	2,298.64	
26 24 19 00-0439 EA Service Entrance Label	497.80	
26 24 19 00-0440 EA Type W To 5 Star - 10" Transition	1,040.54	
26 24 19 00-0441 EA 600 Amperes, Sub Feed Lugs On Main Bus	595.05	
26 24 19 00-0442 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0443 EA Standard Structure Add For Each Additional 4" Of Structure Width	328.72	
26 24 19 00-0444 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4"	328.72	
26 24 19 00-0445 EA Standard Structure Single Corner Section "L", 16" Depth	1,016.89	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 21" Depth	1,146.96	
26 24 19 00-0447 EA Standard Structure Unused Space/Future Space	98.14	
26 24 19 00-0448 EA Standard Structure NEMA 12 Dustproof	264.86	
26 24 19 00-0449 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure	55.57	
26 24 19 00-0450 EA Standard Structure 150 Watt Space	238.85	
26 24 19 00-0451 EA Standard Structure Thermostat For Space Heater Control	724.52	
26 24 19 00-0452 EA Standard Structure Rear Hinged Structure Door, 72" High	238.85	
26 24 19 00-0453 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC	468.07	
26 24 19 00-0454 EA Standard Structure NEMA 3R N-Walk In Front Mounted	6,677.52	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Back-to-back	7,718.23	
26 24 19 00-0456 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted	7,725.70	
26 24 19 00-0457 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0458 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes	711.58	355.81
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes	1,067.37	533.71
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes	1,186.01	593.01
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes	1,423.33	711.61
26 24 19 00-0462 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes	118.60	59.30
26 24 19 00-0463 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes	711.58	355.81
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes	1,067.37	533.71

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes	1,186.01	593.01
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes	1,423.33	711.61
26 24 19 00-0467 EA Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes	118.60	59.30
26 24 19 00-0468 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes	830.22	415.11
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes	1,067.37	533.71
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes	1,423.33	711.61
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes	1,660.21	830.09
26 24 19 00-0472 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes	177.90	88.95
26 24 19 00-0473 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes	948.80	474.41
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes	1,304.72	652.31
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes	1,660.21	830.09
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes	1,897.29	948.69
26 24 19 00-0477 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes	237.20	118.60
26 24 19 00-0478 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes	948.80	474.41
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes	1,423.33	711.61
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes	1,778.83	889.39
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes	2,016.35	1,008.23
26 24 19 00-0482 EA Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes	237.20	118.60
26 24 19 00-0483 Motor Control Centers (26 24 19)		
26 24 19 00-0484 2.4 KV Motor Control Centers (26 24 19 00-0483)		
26 24 19 00-0485 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp	18,003.38	237.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32	
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp	18,003.38	237.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32	
26 24 19 00-0487 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp	18,003.38	237.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32	
26 24 19 00-0488 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp	18,062.71	266.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.12	
26 24 19 00-0489 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp	19,183.37	296.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90	
26 24 19 00-0490 EA 2.400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp	19,242.65	326.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	195.69	
26 24 19 00-0491 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp	19,301.94	355.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.47	
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp	19,420.58	415.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	249.07	
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp	19,539.16	474.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.64	
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp	32,887.55	533.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.21	
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp	35,300.50	593.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	355.80	
26 24 19 00-0496 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp	26,704.62	237.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32	
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp	27,820.88	255.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.00	
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp	31,605.68	278.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.23	
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp	35,179.23	296.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90	
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp	38,276.05	343.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.38	
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp	41,936.47	367.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	220.60	
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp	45,594.71	391.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	234.82	
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp	49,935.09	426.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	256.19	
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp	58,107.19	474.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.64	
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp	62,954.61	504.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	302.45	
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp	96,131.94	593.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	355.80	
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp	102,425.99	652.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	391.42	
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp	107,905.14	711.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	427.00	
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp	117,497.03	771.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	462.62	
26 24 19 00-0510 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp	25,197.23	237.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	142.32	
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp	25,256.56	266.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	160.12	
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp	25,315.83	296.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.90	
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp	25,375.11	326.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	195.69	
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp	25,438.69	355.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.47	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 24 19 00-0515	EA	2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP	25,498.04		385.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.28		
26 24 19 00-0516	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp	25,557.33		415.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	249.07		
26 24 19 00-0517	EA	2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp	25,794.48		533.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.21		
26 24 19 00-0518	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp	43,930.98		593.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	355.80		
26 24 19 00-0519	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp	44,049.69		652.31
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	391.42		
26 24 19 00-0520	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp	46,449.74		711.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	427.00		
26 24 19 00-0521	EA	Add For Reversing Starters, 100 To 700 Hp	9,907.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0522	EA	Add For Reversing Starters, 1,000 To 1,500 Hp	10,207.81		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0523	EA	Add For Reversing Starters, 1,750 To 2,500 Hp	15,621.96		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.16		
26 24 19 00-0524 4.8 KV Motor Control Centers (26 24 19 00-0483)					
26 24 19 00-0525	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP	19,602.13		355.81
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.47		
26 24 19 00-0526	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP	19,661.48		385.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.28		
26 24 19 00-0527	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP	19,720.77		415.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	249.07		
26 24 19 00-0528	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP	19,780.10		444.75
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	266.87		
26 24 19 00-0529	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP	20,890.02		474.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.64		
26 24 19 00-0530	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP	20,949.40		504.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	302.45		
26 24 19 00-0531	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP	21,008.59		533.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.21		
26 24 19 00-0532	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP	21,067.99		563.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	338.03		
26 24 19 00-0533	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP	21,127.23		593.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	355.80		
26 24 19 00-0534	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP	35,774.49		771.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	462.62		
26 24 19 00-0535	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP	35,892.63		830.09
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	498.06		
26 24 19 00-0536	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP	38,294.84		889.39
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	533.65		
26 24 19 00-0537	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP	38,413.30		948.69
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	569.19		
26 24 19 00-0538	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP	27,246.26		355.81
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	213.47		
26 24 19 00-0539	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP	27,605.81		385.45
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.28		
26 24 19 00-0540	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP	32,189.39		415.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	249.07		
26 24 19 00-0541	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP	35,775.96		444.75
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	266.87		
26 24 19 00-0542	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP	38,837.11		474.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	284.64		
26 24 19 00-0543	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP	42,509.50		504.05
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	302.45		
26 24 19 00-0544	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP	45,956.55		533.71
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.21		
26 24 19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP	50,508.09		563.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	338.03		
26 24 19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP	58,500.93		593.01
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	355.80		
26 24 19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP	63,933.67		622.65
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	373.60		
26 24 19 00-0548	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP	69,425.70		681.96
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	409.19		
26 24 19 00-0549	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP	73,964.33		711.61
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	427.00		
26 24 19 00-0550	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP	78,245.48		741.26
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	444.75		
26 24 19 00-0551	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP	84,233.80		771.02
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	462.62		
26 24 19 00-0552	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP	133,498.61		948.69
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	569.19		
26 24 19 00-0553	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP	148,455.65		1,008.23
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	604.91		
26 24 19 00-0554	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP	178,432.25		1,067.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	640.42		
26 24 19 00-0555	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP	188,735.21		1,067.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	640.42		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0556 EA 4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,910.33 249.07	415.11
26 24 19 00-0557 EA 4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,969.66 266.87	444.75
26 24 19 00-0558 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,028.91 284.64	474.41
26 24 19 00-0559 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,088.29 302.45	504.05
26 24 19 00-0560 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,407.49 320.21	533.71
26 24 19 00-0561 EA 4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,466.89 338.03	563.35
26 24 19 00-0562 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,526.13 355.80	593.01
26 24 19 00-0563 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,585.46 373.60	622.65
26 24 19 00-0564 EA 4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,644.84 391.42	652.31
26 24 19 00-0565 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,000.33 498.06	830.09
26 24 19 00-0566 EA 4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,436.99 533.65	889.39
26 24 19 00-0567 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,828.32 569.19	948.69
26 24 19 00-0568 EA 4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,828.32 569.19	948.69
26 24 19 00-0569 EA Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,125.55 71.16	
26 24 19 00-0570 EA Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,463.55 71.16	
26 24 19 00-0571 EA Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,559.57 71.16	
26 24 19 00-0572 2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0483)		
26 24 19 00-0573 EA 2.4/4.8 KV Load Break Disconnect Switch 600 Amperes.....	14,477.17	237.20
26 24 19 00-0574 EA 2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes.....	17,396.59	355.81
26 24 19 00-0575 EA 2.4/4.8 KV NEMA 3 Weather Resistant.....	5,700.09	
26 24 19 00-0576 EA 2.4/4.8 KV Space Heaters.....	273.03	17.79
26 24 19 00-0577 EA 2.4/4.8 KV Potential Transformer Fused.....	1,651.36	
26 24 19 00-0578 EA 2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	886.04	
26 24 19 00-0579 EA 2.4/4.8 KV Control Transformer 4 KVA Max.....	2,638.80	
26 24 19 00-0580 EA 2.4/4.8 KV Pushbuttons Each.....	169.00	
26 24 19 00-0581 EA 2.4/4.8 KV Selector Switch Each.....	560.11	
26 24 19 00-0582 EA 2.4/4.8 KV Indicating Light.....	169.00	
26 24 19 00-0583 EA 2.4/4.8 KV Push To Test Light.....	511.82	
26 24 19 00-0584 EA 2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,361.65	
26 24 19 00-0585 EA 2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,361.65	
26 24 19 00-0586 EA 2.4/4.8 KV Power Factor Meter.....	4,072.87	
26 24 19 00-0587 EA 2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,807.79	
26 24 19 00-0588 EA 2.4/4.8 KV Operation Counter.....	547.40	17.79
26 24 19 00-0589 EA 2.4/4.8 KV Phase Failure Protection.....	3,937.97	59.30
26 24 19 00-0590 EA 2.4/4.8 KV Ground Protection.....	7,524.22	29.65
26 24 19 00-0591 EA 2.4/4.8 KV Synchronous Motor DC Protection.....	2,984.01	29.65
26 24 19 00-0592 EA 2.4/4.8 KV Lightning Arresters.....	5,495.61	17.79
26 24 19 00-0593 EA 2.4/4.8 KV Portable Lifting Mechanism.....	7,958.93	
26 24 19 00-0594 EA 2.4/4.8 KV Auxiliary Timing Relay.....	711.61	59.30
26 24 19 00-0595 EA 2.4/4.8 KV Auxiliary Control Relay.....	510.75	59.30
26 24 19 00-0596 Incoming Section And Feeder Air Circuit Breakers (26 24 19 00-0483)		
Note: 3 Pole. Includes structure.		
26 24 19 00-0597 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included.....	1,365.77	355.62
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included.....	2,369.22	629.48
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	2,827.19	806.00
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,541.61	1,297.91
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,347.29	1,427.69
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	6,923.98	1,583.44
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	8,057.18	1,856.01
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	14,023.57	2,162.31
26 24 19 00-0605 Main Lugs Only (26 24 19 00-0483)		
26 24 19 00-0606 EA 600 Amperes Incoming Section, Main Lugs.....	1,074.38	454.27
26 24 19 00-0607 EA 800 Amperes Incoming Section, Main Lugs.....	1,166.26	454.27



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0608	EA	1,200 Amperes Incoming Section, Main Lugs.....	1,632.25	713.85	
26 24 19 00-0609	EA	2,000 Amperes Incoming Section, Main Lugs.....	4,042.81	1,297.91	
26 24 19 00-0610	EA	3,000 Amperes Incoming Section, Main Lugs.....	6,153.81	1,881.96	
26 24 19 00-0611	EA	4,000 Amperes Incoming Section, Main Lugs.....	8,795.59	2,595.81	
26 24 19 00-0612 Incoming Main Circuit Breaker Structure (26 24 19 00-0483)					
Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24 19 00-0613	EA	225 Amperes, Main Circuit Breaker Section	7,385.31	628.05	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0614	EA	400 Amperes, Main Circuit Breaker Section	15,708.39	806.78	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0615	EA	600 Amperes, Main Circuit Breaker Section	16,285.27	1,256.63	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0616	EA	800 Amperes, Main Circuit Breaker Section	23,170.22	1,256.63	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0617	EA	1,200 Amperes, Main Circuit Breaker Section	33,559.70	1,421.85	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0618 Incoming Fusible Main Disconnect Section (26 24 19 00-0483)					
Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.					
26 24 19 00-0619	EA	200 Amperes, Fusible Main Disconnect Section.....	6,407.80	628.84	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0620	EA	400 Amperes, Fusible Main Disconnect Section.....	8,851.04	807.17	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0621	EA	600 Amperes, Fusible Main Disconnect Section.....	17,310.42	1,257.67	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0622	EA	800 Amperes, Fusible Main Disconnect Section.....	20,134.75	1,257.67	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0623	EA	1,200 Amperes, Fusible Main Disconnect Section.....	28,377.87	1,423.16	
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For NEMA 1 With Gaskets, Add	97.00		
		For NEMA 12, Add	245.00		
		For 20" Cabinet Depth, Add	108.00		
26 24 19 00-0624 Circuit Breaker Combination Starters (26 24 19 00-0483)					
26 24 19 00-0625 Class I, Type A (26 24 19 00-0624)					
26 24 19 00-0626	EA	Size 1, Class I, Type A Circuit Breaker Combination Starter	1,140.81	263.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.22		
26 24 19 00-0627	EA	Size 2, Class I, Type A Circuit Breaker Combination Starter	1,327.33	263.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.40		
26 24 19 00-0628	EA	Size 3, Class I, Type A Circuit Breaker Combination Starter	1,927.37	373.80	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.78		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0629 EA Size 4, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,140.58 294.98	491.90
26 24 19 00-0630 EA Size 5, Class I, Type A Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,631.15 368.72	615.20
26 24 19 00-0631 Class I, Type B (26 24 19 00-0624)		
26 24 19 00-0632 EA Size 1, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,080.07 129.79	229.73
26 24 19 00-0633 EA Size 2, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,259.87 146.16	229.73
26 24 19 00-0634 EA Size 3, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,847.04 199.68	332.26
26 24 19 00-0635 EA Size 4, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,058.64 270.40	450.37
26 24 19 00-0636 EA Size 5, Class I, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,565.07 348.90	574.97
26 24 19 00-0637 Class I, Type C (26 24 19 00-0624)		
26 24 19 00-0638 EA Size 1, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,138.47 117.56	212.86
26 24 19 00-0639 EA Size 2, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,329.79 138.08	212.86
26 24 19 00-0640 EA Size 3, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,975.99 190.87	317.98
26 24 19 00-0641 EA Size 4, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,194.97 263.80	439.99
26 24 19 00-0642 EA Size 5, Class I, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,691.76 338.00	564.59
26 24 19 00-0643 Class II, Type B (26 24 19 00-0624)		
26 24 19 00-0644 EA Size 1, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,143.43 178.28	315.39
26 24 19 00-0645 EA Size 2, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,577.99 199.07	315.39
26 24 19 00-0646 EA Size 3, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,234.91 251.53	420.52
26 24 19 00-0647 EA Size 4, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,645.33 324.48	538.63
26 24 19 00-0648 EA Size 5, Class II, Type B Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,566.98 395.70	658.04
26 24 19 00-0649 Class II, Type C (26 24 19 00-0624)		
26 24 19 00-0650 EA Size 1, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,424.62 170.78	298.51
26 24 19 00-0651 EA Size 2, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,635.28 186.48	298.51
26 24 19 00-0652 EA Size 3, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,370.38 243.97	407.54
26 24 19 00-0653 EA Size 4, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,772.13 315.02	525.65
26 24 19 00-0654 EA Size 5, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,711.77 390.93	648.95
26 24 19 00-0655 Fused Disconnect Combination Starter (26 24 19 00-0483)		
26 24 19 00-0656 Class I, Type A (26 24 19 00-0655)		
26 24 19 00-0657 EA Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,041.93 146.16	242.71
26 24 19 00-0658 EA Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,568.54 199.07	332.26
26 24 19 00-0659 EA Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,486.21 259.58	432.20
26 24 19 00-0660 EA Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,402.20 364.58	606.12
26 24 19 00-0661 EA Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,939.33 463.54	772.25
26 24 19 00-0662 Class I, Type B (26 24 19 00-0655)		
26 24 19 00-0663 EA Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,058.81 129.79	216.75
26 24 19 00-0664 EA Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,426.39 178.28	297.22
26 24 19 00-0665 EA Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,107.45 238.58	397.16
26 24 19 00-0666 EA Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,518.92 345.19	573.68



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Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0667	EA	Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,038.18 438.48	729.42
26 24 19 00-0668		Class I, Type C (26 24 19 00-0655)		
26 24 19 00-0669	EA	Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,118.67 121.52	202.48
26 24 19 00-0670	EA	Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,504.11 166.40	275.15
26 24 19 00-0671	EA	Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,287.41 231.77	382.89
26 24 19 00-0672	EA	Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,697.65 338.00	564.59
26 24 19 00-0673	EA	Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,714.23 432.64	721.63
26 24 19 00-0674		Class II, Type B (26 24 19 00-0655)		
26 24 19 00-0675	EA	Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,337.76 182.29	303.71
26 24 19 00-0676	EA	Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,727.15 226.91	378.98
26 24 19 00-0677	EA	Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,499.94 292.32	488.01
26 24 19 00-0678	EA	Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,060.68 395.70	658.04
26 24 19 00-0679	EA	Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,940.76 491.63	821.57
26 24 19 00-0680		Class II, Type C (26 24 19 00-0655)		
26 24 19 00-0681	EA	Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,386.81 170.78	285.53
26 24 19 00-0682	EA	Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,804.42 214.89	358.22
26 24 19 00-0683	EA	Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,649.97 279.72	465.95
26 24 19 00-0684	EA	Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,221.32 386.28	642.46
26 24 19 00-0685	EA	Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,095.27 477.17	795.61
26 24 19 00-0686		Space Complete With Bus And Hardware (26 24 19 00-0483)		
26 24 19 00-0687		Circuit Breaker Type (26 24 19 00-0686)		
26 24 19 00-0688	EA	Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	322.36	88.25
26 24 19 00-0689	EA	Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	322.36	88.25
26 24 19 00-0690	EA	Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	479.02	128.49
26 24 19 00-0691	EA	Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	568.86	168.73
26 24 19 00-0692	EA	Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	954.46	256.99
26 24 19 00-0693		Fused Disconnect Type (26 24 19 00-0686)		
26 24 19 00-0694	EA	Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	322.36	88.25
26 24 19 00-0695	EA	Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	427.61	128.49
26 24 19 00-0696	EA	Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	594.02	168.73
26 24 19 00-0697	EA	Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	1,024.67	256.99
26 24 19 00-0698	EA	Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,428.66	373.80
26 24 19 00-0699		Blank Space For Future Expansion (26 24 19 00-0686) Note: Factory modified no labor costs.		
26 24 19 00-0700	EA	Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	146.50	
26 24 19 00-0701	EA	Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	146.50	
26 24 19 00-0702	EA	Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	222.11	
26 24 19 00-0703	EA	Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	222.11	
26 24 19 00-0704	EA	Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	441.86	
26 24 19 00-0705		Structure Combination Of Starters To 72" High (26 24 19 00-0686)		
26 24 19 00-0706	EA	Structure Combination Of Starters To 72" High	3,747.76	683.09
26 24 19 00-0707		Motor Control Center Basic Distribution Section (26 24 19 00-0483)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0708	EA		20" Wide Basic Section With Vertical Wireway	6,289.95	1,778.91
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0709	EA		25" To 35" Wide Basic Section (No Vertical Wireway)	6,289.95	1,778.91
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710	EA		25" Wide Basic Section With 9" Wide Vertical Wireway	6,933.73	1,778.91
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711	EA		Corner Section	6,933.73	1,778.91
			For 20" Cabinet Depth, Add	108.00	
			For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
			For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
			For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
			For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
			For NEMA 1 With Gasket, Add	97.00	
			For NEMA 12, Add	245.00	
			For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712			Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0483)		
			Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0713			FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0712)		
26 24 19 00-0714	EA		Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker	1,619.85	249.84
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	149.90	
26 24 19 00-0715	EA		Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker	1,802.91	277.10
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.26	
26 24 19 00-0716	EA		Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker	3,119.45	372.50
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	223.52	
26 24 19 00-0717	EA		Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker	4,521.79	491.13
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	294.71	
26 24 19 00-0718	EA		Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker	10,278.87	613.78
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	368.30	
26 24 19 00-0719	EA		Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker	23,993.60	613.78
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	368.30	
26 24 19 00-0720	EA		Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker	1,633.32	216.10
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	129.65	
26 24 19 00-0721	EA		Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker	1,842.07	243.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	146.01	
26 24 19 00-0722	EA		Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker	3,186.56	332.26
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.35	
26 24 19 00-0723	EA		Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker	4,522.28	450.37
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	270.25	
26 24 19 00-0724	EA		Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker	10,296.24	581.46
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	348.90	
26 24 19 00-0725	EA		Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker	24,158.54	581.46
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	348.90	
26 24 19 00-0726			Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0712)		
26 24 19 00-0727	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,589.35	312.67
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	187.56	
26 24 19 00-0728	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	3,174.52	345.89
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.55	
26 24 19 00-0729	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	5,225.60	464.91
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	278.92	
26 24 19 00-0730	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	8,979.04	614.56
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	368.72	
26 24 19 00-0731	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	16,195.94	768.88
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	461.34	
26 24 19 00-0732	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	2,627.11	269.97
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	161.97	
26 24 19 00-0733	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker	3,239.13	304.36
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.63	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0734	EA	Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,316.56 249.60	415.98
26 24 19 00-0735	EA	Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,999.68 338.00	563.29
26 24 19 00-0736	EA	Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,236.26 436.52	727.47
26 24 19 00-0737	Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0712)			
26 24 19 00-0738	EA	Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,835.49 187.56	312.67
26 24 19 00-0739	EA	Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,029.43 207.55	345.89
26 24 19 00-0740	EA	Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,593.41 278.92	464.91
26 24 19 00-0741	EA	Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,339.34 368.72	614.56
26 24 19 00-0742	EA	Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,700.20 461.34	768.88
26 24 19 00-0743	EA	Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,873.25 161.97	269.97
26 24 19 00-0744	EA	Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,094.04 182.63	304.36
26 24 19 00-0745	EA	Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,684.38 249.60	415.98
26 24 19 00-0746	EA	Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,359.98 338.00	563.29
26 24 19 00-0747	EA	Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,740.52 436.52	727.47
26 24 19 00-0748	Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0483) Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.			
26 24 19 00-0749	FVNR Starters With Fusible Disconnect (26 24 19 00-0748)			
26 24 19 00-0750	EA	Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,309.29	243.61
26 24 19 00-0751	EA	Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,707.45	331.10
26 24 19 00-0752	EA	Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,840.25	431.43
26 24 19 00-0753	EA	Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,782.57	607.68
26 24 19 00-0754	EA	Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	9,583.88	772.51
26 24 19 00-0755	EA	Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	24,227.25	772.51
26 24 19 00-0756	EA	Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,334.01	215.97
26 24 19 00-0757	EA	Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,745.11	296.57
26 24 19 00-0758	EA	Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,920.24	397.68
26 24 19 00-0759	EA	Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,799.98	575.36
26 24 19 00-0760	EA	Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	9,582.41	730.85
26 24 19 00-0761	EA	Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	24,373.46	730.85
26 24 19 00-0762	Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0748)			
26 24 19 00-0763	EA	Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,249.18	305.00
26 24 19 00-0764	EA	Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,133.20	413.90
26 24 19 00-0765	EA	Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,845.50	539.02
26 24 19 00-0766	EA	Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,136.44	761.74
26 24 19 00-0767	EA	Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,472.16	891.40
26 24 19 00-0768	EA	Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,301.12	269.97
26 24 19 00-0769	EA	Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,193.95	370.43
26 24 19 00-0770	EA	Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,951.52	497.62
26 24 19 00-0771	EA	Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,171.88	717.87
26 24 19 00-0772	EA	Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,493.61	840.65
26 24 19 00-0773	Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0748)			
26 24 19 00-0774	EA	Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,620.02	305.00
26 24 19 00-0775	EA	Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,001.24	413.90
26 24 19 00-0776	EA	Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,237.93	539.02
26 24 19 00-0777	EA	Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,635.27	761.74
26 24 19 00-0778	EA	Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	20,060.80	891.40
26 24 19 00-0779	EA	Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,673.06	269.97
26 24 19 00-0780	EA	Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,061.99	370.43
26 24 19 00-0781	EA	Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,343.95	497.62
26 24 19 00-0782	EA	Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,670.71	717.87
26 24 19 00-0783	EA	Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	20,082.26	840.65
26 24 19 00-0784	Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0483) Note: Per section. Labor is included in basic distribution section.			
26 24 19 00-0785	EA	600 Amperes, Horizontal Tin Plated Copper Bus Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	281.94 9.76	
26 24 19 00-0786	EA	800 Amperes, Horizontal Tin Plated Copper Bus Kit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	345.38 9.76	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0787 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	415.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.71	
26 24 19 00-0788 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	540.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.71	
26 24 19 00-0789 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	905.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.66	
26 24 19 00-0790 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	161.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.81	
26 24 19 00-0791 Disconnect (Safety) Switch For Motor Control Centers (26 24 19 00-0483)		
26 24 19 00-0792 3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0791)		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0793 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,065.74	187.55
26 24 19 00-0794 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,871.72	207.66
26 24 19 00-0795 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,281.99	279.70
26 24 19 00-0796 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,791.83	368.60
26 24 19 00-0797 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	6,560.95	460.76
26 24 19 00-0798 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	7,488.01	460.76
26 24 19 00-0799 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	15,447.20	576.92
26 24 19 00-0800 Fusible Disconnect (Safety) Switch For Motor Control Center (26 24 19 00-0791)		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0801 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	906.20	182.35
26 24 19 00-0802 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,071.44	248.55
26 24 19 00-0803 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,466.27	317.98
26 24 19 00-0804 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,721.10	455.56
26 24 19 00-0805 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,813.13	579.38
26 24 19 00-0806 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	10,982.90	579.38
26 24 19 00-0807 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	13,578.07	724.23
26 24 19 00-0808 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	20,036.65	724.23
26 24 19 00-0809 Control Circuit Transformer (26 24 19 00-0483)		
26 24 19 00-0810 EA Control Circuit Transformer, Size 1 Factory Installed.....	78.16	
26 24 19 00-0811 EA Control Circuit Transformer, Size 2 Factory Installed.....	78.16	
26 24 19 00-0812 EA Control Circuit Transformer, Size 3 Factory Installed.....	150.52	
26 24 19 00-0813 EA Control Circuit Transformer, Size 4 Factory Installed.....	150.52	
26 24 19 00-0814 EA Control Circuit Transformer, Size 5 Factory Installed.....	209.11	
26 24 19 00-0815 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	59.32	14.70
26 24 19 00-0816 Cover Mounted Control Devices (26 24 19 00-0483)		
26 24 19 00-0817 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	132.24	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.22	
26 24 19 00-0818 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	148.65	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.28	
26 24 19 00-0819 EA Control Device, Pilot Light Cover Mounted.....	124.46	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.15	
26 24 19 00-0820 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....	339.41	88.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.19	
26 24 19 00-0821 EA Auxiliary Contact Add Per Starter.....	403.70	33.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.18	
26 24 19 00-0822 Extra Interlocks (26 24 19 00-0483)		
Note: Per contact.		
26 24 19 00-0823 EA Extra Interlocks, Class I, Type A Per Contact.....	86.26	16.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.15	
26 24 19 00-0824 EA Extra Interlocks, Class I, Type B Per Contact.....	118.93	16.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.15	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type C Per Contact.....	131.81	16.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.14	
26 24 19 00-0826 EA Extra Interlocks, Class II, Type B Per Contact.....	118.52	16.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.11	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type C Per Contact.....	124.96	16.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.12	
26 24 19 00-0828 Special Cabinet Provisions (26 24 19 00-0483)		
26 24 19 00-0829 EA Provisions For Bus Duct Entrance Special Cabinet Provisions.....	978.41	
26 24 19 00-0830 Nameplate Requirements (26 24 19 00-0483)		
26 24 19 00-0831 EA Special Cabinet Nameplate Requirements.....	34.74	
26 24 19 00-0832 Auxiliary Relays (26 24 19 00-0483)		



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Switchboards and Panelboards	26 24	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 24 19 00-0833	EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.69 19.51		32.52
26 24 19 00-0834	EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.24 19.51		29.27
26 24 19 00-0835	EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.24 19.51		29.27
26 24 19 00-0836	Motor Control Center Accessories (26 24 19 00-0483)			
26 24 19 00-0837	Lighting Transformer With Circuit Breaker (26 24 19 00-0836) Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.			
26 24 19 00-0838	EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,698.35		415.83
26 24 19 00-0839	EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,924.60		432.45
26 24 19 00-0840	EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,481.62		465.72
26 24 19 00-0841	EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,140.90		498.99
26 24 19 00-0842	EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,934.61		532.25
26 24 19 00-0843	EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,427.65		598.78
26 24 19 00-0844	EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	17,633.39		665.31
26 24 19 00-0845	EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,312.55		548.89
26 24 19 00-0846	EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,204.25		598.78
26 24 19 00-0847	EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,812.92		665.31
26 24 19 00-0848	EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,595.28		731.86
26 24 19 00-0849	EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,395.88		798.39
26 24 19 00-0850	EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,920.94		864.92
26 24 19 00-0851	Bolt-On Lighting Panel (26 24 19 00-0836) Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.			
26 24 19 00-0852	EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,412.25		675.43
26 24 19 00-0853	EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	3,762.44		1,175.64
26 24 19 00-0854	EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	5,000.37		1,590.58
26 24 19 00-0855	EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,523.00		730.85
26 24 19 00-0856	EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	3,712.41		1,150.59
26 24 19 00-0857	EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,199.19		1,690.00
26 24 19 00-0858	EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,067.45		783.42
26 24 19 00-0859	EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,418.05		1,257.67
26 24 19 00-0860	EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	6,771.17		1,690.00
26 24 19 00-0861	EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,190.67		844.94
26 24 19 00-0862	EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,418.05		1,257.67
26 24 19 00-0863	EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	6,880.20		1,744.51
26 24 19 00-0864	Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0836) Note: For MCC lighting panel only.			
26 24 19 00-0865	EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker.....	27.70		
26 24 19 00-0866	EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	301.53		
26 24 19 00-0867	EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	54.14		
26 24 19 00-0868	EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	124.65		
26 24 19 00-0869	EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	146.05		
26 24 19 00-0870	EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	221.60		
26 24 19 00-0871	Blank Unit Door (BUD) (26 24 19 00-0836) Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.			
26 24 19 00-0872	EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	80.41		
26 24 19 00-0873	EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	96.49		
26 24 19 00-0874	EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	144.73		
26 24 19 00-0875	EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	192.98		
26 24 19 00-0876	EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	289.47		
26 24 19 00-0877	EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	337.71		
26 24 19 00-0878	EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	385.96		
26 25	Enclosed Bus Assemblies (26 20)			
26 25 13	Low-Voltage Busways (26 25)			
26 25 13 00-0001	Plug-In Bus Duct (26 25 13) Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.			
26 25 13 00-0002	600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0001)			
26 25 13 00-0003	LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	291.90		38.94
	<i>For Up To 25, Add</i>	72.98		
	<i>For >25 To 50, Add</i>	43.79		
	<i>For >50 To 100, Add</i>	21.89		
26 25 13 00-0004	LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors	410.17		38.94
	<i>For Up To 25, Add</i>	102.54		
	<i>For >25 To 50, Add</i>	61.53		
	<i>For >50 To 100, Add</i>	30.76		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0005	LF		600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	518.40	51.92
			For Up To 25, Add	129.60	
			For >25 To 50, Add	77.76	
			For >50 To 100, Add	38.88	
26 25 13 00-0006	LF		800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	711.72	51.92
			For Up To 25, Add	177.93	
			For >25 To 50, Add	106.76	
			For >50 To 100, Add	53.38	
26 25 13 00-0007	LF		1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	751.09	64.89
			For Up To 25, Add	187.77	
			For >25 To 50, Add	112.66	
			For >50 To 100, Add	56.33	
26 25 13 00-0008	LF		1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,041.41	64.89
			For Up To 25, Add	260.35	
			For >25 To 50, Add	156.21	
			For >50 To 100, Add	78.11	
26 25 13 00-0009	LF		1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,216.30	68.14
			For Up To 25, Add	304.08	
			For >25 To 50, Add	182.45	
			For >50 To 100, Add	91.22	
26 25 13 00-0010	LF		2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,477.16	70.09
			For Up To 25, Add	369.29	
			For >25 To 50, Add	221.57	
			For >50 To 100, Add	110.79	
26 25 13 00-0011	LF		2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,819.37	73.98
			For Up To 25, Add	454.84	
			For >25 To 50, Add	272.91	
			For >50 To 100, Add	136.45	
26 25 13 00-0012	LF		3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,101.01	86.31
			For Up To 25, Add	525.25	
			For >25 To 50, Add	315.15	
			For >50 To 100, Add	157.58	
26 25 13 00-0013	LF		4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,429.72	94.10
			For Up To 25, Add	607.43	
			For >25 To 50, Add	364.46	
			For >50 To 100, Add	182.23	
26 25 13 00-0014			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0001)		
26 25 13 00-0015	LF		225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	470.09	38.94
			For Up To 25, Add	117.52	
			For >25 To 50, Add	70.51	
			For >50 To 100, Add	35.26	
26 25 13 00-0016	LF		400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	675.53	38.94
			For Up To 25, Add	168.88	
			For >25 To 50, Add	101.33	
			For >50 To 100, Add	50.66	
26 25 13 00-0017	LF		600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	763.80	51.92
			For Up To 25, Add	190.95	
			For >25 To 50, Add	114.57	
			For >50 To 100, Add	57.29	
26 25 13 00-0018	LF		800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	968.90	51.92
			For Up To 25, Add	242.23	
			For >25 To 50, Add	145.34	
			For >50 To 100, Add	72.67	
26 25 13 00-0019	LF		1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,180.15	64.89
			For Up To 25, Add	295.04	
			For >25 To 50, Add	177.02	
			For >50 To 100, Add	88.51	
26 25 13 00-0020	LF		1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,525.24	64.89
			For Up To 25, Add	381.31	
			For >25 To 50, Add	228.79	
			For >50 To 100, Add	114.39	
26 25 13 00-0021	LF		1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,969.17	67.23
			For Up To 25, Add	492.29	
			For >25 To 50, Add	295.38	
			For >50 To 100, Add	147.69	
26 25 13 00-0022	LF		2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,368.45	70.09
			For Up To 25, Add	592.11	
			For >25 To 50, Add	355.27	
			For >50 To 100, Add	177.63	
26 25 13 00-0023	LF		2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,933.58	73.33
			For Up To 25, Add	733.40	
			For >25 To 50, Add	440.04	
			For >50 To 100, Add	220.02	
26 25 13 00-0024	LF		3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,386.67	86.31
			For Up To 25, Add	846.67	
			For >25 To 50, Add	508.00	
			For >50 To 100, Add	254.00	
26 25 13 00-0025	LF		4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	3,924.06	94.10
			For Up To 25, Add	981.02	
			For >25 To 50, Add	588.61	
			For >50 To 100, Add	294.30	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Enclosed Bus Assemblies		26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,359.72	181.70
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,444.33	181.70
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,645.95	246.60
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,819.61	246.60
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,026.68	324.47
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,317.08	324.47
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,444.33	356.93
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,660.84	356.93
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,848.07	486.72
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,201.10	486.72
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,371.89	648.95
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,834.12	648.95
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,072.24	129.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.00	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	2,115.19	129.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.15	
26 25 13 00-0045 600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,048.04	129.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.00	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,652.40	129.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.15	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,234.52	155.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.12	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,476.42	155.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.40	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	1,408.82	155.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	81.12	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,158.95	155.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	101.40	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	3,184.55	538.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	233.44	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	7,582.65	538.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	506.99	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	8,521.62	1,557.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	705.38	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	10,793.06	1,557.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,247.99	
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,069.84	129.79
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,177.18	129.79
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,623.64	155.75
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,742.64	311.49
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	6,909.63	700.87
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,366.12	1,220.03
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,109.62	142.77
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,214.36	142.77
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,635.00	142.77
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	2,806.51	298.51
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	6,874.97	674.91
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	10,611.94	1,297.91
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	17,334.00	1,687.27
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse (26 25 13 00-0058)		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch	1,237.26	168.73

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0076	EA	60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,331.66	168.73	
26 25 13 00-0077	EA	100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,800.12	168.73	
26 25 13 00-0078	EA	200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,050.75	350.44	
26 25 13 00-0079	EA	400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,588.82	778.74	
26 25 13 00-0080	EA	600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	11,053.05	1,194.08	
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse (26 25 13 00-0058)					
26 25 13 00-0082	EA	30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,277.35	168.73	
26 25 13 00-0083	EA	60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,371.74	143.16	
26 25 13 00-0084	EA	100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,918.60	194.68	
26 25 13 00-0085	EA	200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,177.63	350.44	
26 25 13 00-0086	EA	400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,588.82	778.74	
26 25 13 00-0087	EA	600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	11,053.05	1,194.08	
26 25 13 00-0088	EA	800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	17,445.25	1,583.44	
26 25 16 Low-Voltage Cablebus Systems (26 25)					
26 25 16 00-0001 Feeder Bus Duct (26 25 16)					
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.					
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)					
Note: Copper conductors.					
26 25 16 00-0003	LF	800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	849.39	54.51	
		For Up To 25, Add	212.35		
		For >25 To 50, Add	127.41		
		For >50 To 100, Add	63.70		
26 25 16 00-0004	LF	1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	861.55	54.51	
		For Up To 25, Add	215.39		
		For >25 To 50, Add	129.23		
		For >50 To 100, Add	64.62		
26 25 16 00-0005	LF	1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,125.55	54.51	
		For Up To 25, Add	281.39		
		For >25 To 50, Add	168.83		
		For >50 To 100, Add	84.42		
26 25 16 00-0006	LF	1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,350.53	54.51	
		For Up To 25, Add	337.63		
		For >25 To 50, Add	202.58		
		For >50 To 100, Add	101.29		
26 25 16 00-0007	LF	2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,649.89	54.51	
		For Up To 25, Add	412.47		
		For >25 To 50, Add	247.48		
		For >50 To 100, Add	123.74		
26 25 16 00-0008	LF	3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,251.89	129.79	
		For Up To 25, Add	562.97		
		For >25 To 50, Add	337.78		
		For >50 To 100, Add	168.89		
26 25 16 00-0009	LF	4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,110.11	129.79	
		For Up To 25, Add	777.53		
		For >25 To 50, Add	466.52		
		For >50 To 100, Add	233.26		
26 25 16 00-0010	LF	5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	3,679.72	129.79	
		For Up To 25, Add	919.93		
		For >25 To 50, Add	551.96		
		For >50 To 100, Add	275.98		
26 25 16 00-0011	LF	6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	4,530.64	129.79	
		For Up To 25, Add	1,132.66		
		For >25 To 50, Add	679.60		
		For >50 To 100, Add	339.80		
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 16 00-0001)					
Note: Low impedance, copper conductors.					
26 25 16 00-0013	LF	800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	972.63	58.40	
		For Up To 25, Add	243.16		
		For >25 To 50, Add	145.89		
		For >50 To 100, Add	72.95		
26 25 16 00-0014	LF	1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	988.77	58.40	
		For Up To 25, Add	247.19		
		For >25 To 50, Add	148.32		
		For >50 To 100, Add	74.16		
26 25 16 00-0015	LF	1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,270.63	58.40	
		For Up To 25, Add	317.66		
		For >25 To 50, Add	190.59		
		For >50 To 100, Add	95.30		
26 25 16 00-0016	LF	1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,506.15	58.40	
		For Up To 25, Add	376.54		
		For >25 To 50, Add	225.92		
		For >50 To 100, Add	112.96		
26 25 16 00-0017	LF	2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports.....	1,818.81	58.40	
		For Up To 25, Add	454.70		
		For >25 To 50, Add	272.82		
		For >50 To 100, Add	136.41		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Enclosed Bus Assemblies		26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	2,792.73 698.18 418.91 209.45	99.94
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,502.36 875.59 525.35 262.68	99.94
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	4,144.45 1,036.11 621.67 310.83	185.60
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	5,108.85 1,277.21 766.33 383.16	185.60

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R. See CSI section 26 27 13 00-0013 for meter.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	293.25	84.36
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	310.77	84.36
26 27 13 00-0005 EA 150 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	346.79	94.10
26 27 13 00-0006 EA 150 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	358.04	94.10
26 27 13 00-0007 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	400.35	103.83
26 27 13 00-0008 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	405.33	103.83
26 27 13 00-0009 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,041.56	164.83
26 27 13 00-0010 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,329.31	184.30
26 27 13 00-0011 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	2,882.05	203.77
26 27 13 00-0012 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	2,952.82	648.95

26 27 13 00-0013 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand. See CSI section 26 27 13 00-0002 for socket base.

26 27 13 00-0014 EA 100 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	289.01	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.96	
26 27 13 00-0015 EA 150 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	341.54	26.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.16	
26 27 13 00-0016 EA 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	417.64	27.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.35	
26 27 13 00-0017 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	813.57	27.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.59	
26 27 13 00-0018 EA 320 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	1,139.08	29.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.56	
26 27 13 00-0019 EA 400 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	1,847.00	32.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	

26 27 13 00-0020 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0021 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure	607.15	168.73

26 27 13 00-0022 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

26 27 13 00-0023 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0022)

26 27 13 00-0024 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,125.84	81.12
26 27 13 00-0025 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,481.37	97.34
26 27 13 00-0026 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,835.02	113.57
26 27 13 00-0027 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,126.32	129.79
26 27 13 00-0028 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,767.16	146.01
26 27 13 00-0029 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,988.54	162.24
26 27 13 00-0030 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,488.03	194.68

26 27 13 00-0031 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0022)

26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,070.55	81.12
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,726.50	97.34
26 27 13 00-0034 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,755.01	129.79
26 27 13 00-0035 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,165.32	146.01
26 27 13 00-0036 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	5,236.94	162.24

26 27 13 00-0037 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0022)

26 27 13 00-0038 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,723.54	113.57

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0039 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,262.36	129.79
26 27 13 00-0040 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,767.16	146.01
26 27 13 00-0041 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,253.06	162.24
26 27 13 00-0042 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,097.97	178.46
26 27 13 00-0043 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,300.47	194.68
26 27 13 00-0044 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,328.94	227.13
26 27 13 00-0045 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0022)		
26 27 13 00-0046 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,664.47	113.57
26 27 13 00-0047 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,490.47	129.79
26 27 13 00-0048 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,915.74	162.24
26 27 13 00-0049 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,269.40	178.46
26 27 13 00-0050 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,737.76	194.68
26 27 13 00-0051 120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)		
26 27 13 00-0052 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0051)		
26 27 13 00-0053 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,226.30	97.34
26 27 13 00-0054 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,602.62	113.57
26 27 13 00-0055 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,977.06	129.79
26 27 13 00-0056 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,294.81	146.01
26 27 13 00-0057 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,818.49	162.24
26 27 13 00-0058 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,039.89	178.46
26 27 13 00-0059 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,747.20	210.91
26 27 13 00-0060 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0061 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,178.57	97.34
26 27 13 00-0062 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,872.32	113.57
26 27 13 00-0063 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,146.43	146.01
26 27 13 00-0064 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,556.75	162.24
26 27 13 00-0065 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,515.05	178.46
26 27 13 00-0066 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0067 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,824.03	129.79
26 27 13 00-0068 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,370.40	146.01
26 27 13 00-0069 EA 5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,931.89	162.24
26 27 13 00-0070 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,417.81	178.46
26 27 13 00-0071 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,300.52	194.68
26 27 13 00-0072 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,502.97	210.91
26 27 13 00-0073 EA 10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,607.08	243.35
26 27 13 00-0074 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0051)		
26 27 13 00-0075 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,791.41	129.79
26 27 13 00-0076 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,674.10	146.01
26 27 13 00-0077 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,269.43	178.46
26 27 13 00-0078 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,509.70	194.68
26 27 13 00-0079 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,996.99	210.91
26 27 13 00-0080 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)		
26 27 13 00-0081 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,125.84	81.12
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,481.37	97.34
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,126.32	129.79
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,767.16	146.01
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,423.11	162.24
26 27 13 00-0087 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,070.55	81.12
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,726.49	97.34
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,943.93	129.79
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,354.27	146.01
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,236.94	162.24



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0093	800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)			
26 27 13 00-0094	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,723.54	113.57
26 27 13 00-0095	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,262.36	129.79
26 27 13 00-0096	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,253.06	162.24
26 27 13 00-0097	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,097.97	178.46
26 27 13 00-0098	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,300.47	194.68
26 27 13 00-0099	1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0080)			
26 27 13 00-0100	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,664.48	113.57
26 27 13 00-0101	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,490.47	129.79
26 27 13 00-0102	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,915.74	162.24
26 27 13 00-0103	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,269.40	178.46
26 27 13 00-0104	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,737.81	194.68
26 27 13 00-0105	120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing (26 27 13 00-0001)			
26 27 13 00-0106	800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)			
26 27 13 00-0107	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,226.30	97.34
26 27 13 00-0108	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,602.62	113.57
26 27 13 00-0109	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,294.81	146.01
26 27 13 00-0110	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,007.43	162.24
26 27 13 00-0111	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,417.78	178.46
26 27 13 00-0112	1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)			
26 27 13 00-0113	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,178.56	97.34
26 27 13 00-0114	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,872.31	113.57
26 27 13 00-0115	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,957.49	146.01
26 27 13 00-0116	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,367.81	162.24
26 27 13 00-0117	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,515.02	178.46
26 27 13 00-0118	800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)			
26 27 13 00-0119	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,824.01	129.79
26 27 13 00-0120	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,370.38	146.01
26 27 13 00-0121	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,417.78	178.46
26 27 13 00-0122	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,300.47	194.68
26 27 13 00-0123	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,502.97	210.91
26 27 13 00-0124	1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0105)			
26 27 13 00-0125	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,791.39	129.79
26 27 13 00-0126	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,674.08	146.01
26 27 13 00-0127	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,269.40	178.46
26 27 13 00-0128	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,509.70	194.68
26 27 13 00-0129	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,996.99	210.91
26 27 13 00-0130	Watt/Hour Meters (26 27 13)			
26 27 13 00-0131	EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure.....	1,294.17	77.87
26 27 13 00-0132	EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure	3,646.24	155.75
26 27 13 00-0133	EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,937.08	116.81
26 27 13 00-0134	EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,368.59	116.81
26 27 13 00-0135	EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure.....	2,000.47	116.81
26 27 13 00-0136	EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,354.25	107.72
26 27 13 00-0137	EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	2,315.34	194.68
26 27 13 00-0138	Watt/Hour Meter Systems (26 27 13) Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.			
26 27 13 00-0139	Watt/Hour Meter System Without Main Breaker (26 27 13 00-0138)			
26 27 13 00-0140	EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	5,937.98	778.87
26 27 13 00-0141	EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	6,956.33	778.87
26 27 13 00-0142	Watt/Hour Meter System With Main Breaker (26 27 13 00-0138)			
26 27 13 00-0143	EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	10,409.07	778.87
26 27 13 00-0144	EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	12,629.64	778.87

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 27 13 00-0145 EA 800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure 13,571.37 778.87

26 27 16 Electrical Cabinets and Enclosures (26 27)

Note: Can be used as enclosure or pull/junction boxes.

26 27 16 00-0001 NEMA 1 Enclosures, Lockable (26 27 16)

26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)

26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)

26 27 16 00-0004	EA	6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	82.20	25.96
26 27 16 00-0005	EA	6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	92.19	28.56
26 27 16 00-0006	EA	8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	102.27	31.15
26 27 16 00-0007	EA	8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	119.40	36.34
26 27 16 00-0008	EA	10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	130.06	38.94
26 27 16 00-0009	EA	10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	141.50	41.53
26 27 16 00-0010	EA	12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	141.10	41.53
26 27 16 00-0011	EA	12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	152.81	44.13
26 27 16 00-0012	EA	12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	165.12	46.72
26 27 16 00-0013	EA	16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	214.12	62.30
26 27 16 00-0014	EA	16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	259.73	75.28
26 27 16 00-0015	EA	18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	246.74	72.69

26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)

26 27 16 00-0017	EA	6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	103.05	31.15
26 27 16 00-0018	EA	8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	125.12	36.34
26 27 16 00-0019	EA	10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	149.36	44.13
26 27 16 00-0020	EA	10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	161.37	46.72
26 27 16 00-0021	EA	12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	173.63	49.32
26 27 16 00-0022	EA	12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	186.44	51.92
26 27 16 00-0023	EA	16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	236.74	67.49
26 27 16 00-0024	EA	16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	287.01	83.07
26 27 16 00-0025	EA	18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	276.78	80.47
26 27 16 00-0026	EA	18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	360.46	103.83
26 27 16 00-0027	EA	24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	462.73	119.41
26 27 16 00-0028	EA	24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	528.81	129.79
26 27 16 00-0029	EA	30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	588.74	137.58
26 27 16 00-0030	EA	36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	642.19	142.77
26 27 16 00-0031	EA	24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	439.54	103.83

26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)

26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0034	EA	4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	56.50	18.17
26 27 16 00-0035	EA	6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	80.74	25.96
26 27 16 00-0036	EA	8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	90.04	28.56

26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0038	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	63.19	20.76
26 27 16 00-0039	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	78.34	25.96
26 27 16 00-0040	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	87.49	28.56
26 27 16 00-0041	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	96.79	31.15
26 27 16 00-0042	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	112.94	36.34
26 27 16 00-0043	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	122.67	38.94
26 27 16 00-0044	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	132.90	41.53
26 27 16 00-0045	EA	12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	132.53	41.53
26 27 16 00-0046	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	143.19	44.13
26 27 16 00-0047	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	154.16	46.72
26 27 16 00-0048	EA	16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	201.71	62.30
26 27 16 00-0049	EA	16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	249.98	77.87
26 27 16 00-0050	EA	18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	231.97	72.69
26 27 16 00-0051	EA	18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	300.45	93.45
26 27 16 00-0052	EA	24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	432.92	116.81

26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)

26 27 16 00-0054	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	97.32	31.15
26 27 16 00-0055	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	107.33	33.74
26 27 16 00-0056	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	123.71	38.94
26 27 16 00-0057	EA	10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	140.45	44.13
26 27 16 00-0058	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	151.27	46.72
26 27 16 00-0059	EA	12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	162.20	49.32
26 27 16 00-0060	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	173.57	51.92
26 27 16 00-0061	EA	16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	222.29	67.49
26 27 16 00-0062	EA	16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	273.12	83.07
26 27 16 00-0063	EA	18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	259.64	80.47
26 27 16 00-0064	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	337.56	103.83
26 27 16 00-0065	EA	24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	421.10	119.41



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0066	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	482.29		129.79
26 27 16 00-0067	EA	30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	520.60		137.58
26 27 16 00-0068	EA	36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	569.09		142.77
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)					
26 27 16 00-0070	EA	8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	140.45		44.13
26 27 16 00-0071	EA	12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	191.47		57.11
26 27 16 00-0072	EA	16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	243.40		72.69
26 27 16 00-0073	EA	16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	302.14		90.85
26 27 16 00-0074	EA	18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	288.83		88.25
26 27 16 00-0075	EA	18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	357.80		109.03
26 27 16 00-0076	EA	24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	399.15		124.60
26 27 16 00-0077	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	462.40		132.39
26 27 16 00-0078	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	531.82		142.77
26 27 16 00-0079	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	565.80		150.56
26 27 16 00-0080	EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	594.32		155.75
26 27 16 00-0081	EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	609.86		155.75
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)					
26 27 16 00-0083	EA	18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	327.73		98.65
26 27 16 00-0084	EA	18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	431.19		127.19
26 27 16 00-0085	EA	24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	436.75		134.98
26 27 16 00-0086	EA	24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	565.21		145.37
26 27 16 00-0087	EA	24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	650.17		160.94
26 27 16 00-0088	EA	30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	720.95		166.13
26 27 16 00-0089	EA	36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	768.92		173.92
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)					
26 27 16 00-0091	EA	18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	476.04		140.17
26 27 16 00-0092	EA	24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	474.52		147.96
26 27 16 00-0093	EA	24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	621.49		160.94
26 27 16 00-0094	EA	24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	709.74		176.52
26 27 16 00-0095	EA	30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	795.76		184.30
26 27 16 00-0096	EA	36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	839.21		192.09
26 27 16 00-0097	NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)				
26 27 16 00-0098	4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)				
26 27 16 00-0099	EA	24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,266.02		114.21
26 27 16 00-0100	NEMA 12 Enclosures, Lockable (26 27 16) Note: Dust-tight enclosures.				
26 27 16 00-0101	Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)				
26 27 16 00-0102	4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)				
26 27 16 00-0103	EA	4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	117.36		20.76
26 27 16 00-0104	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	152.78		28.56
26 27 16 00-0105	EA	8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	188.98		36.34
26 27 16 00-0106	EA	10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	204.62		38.94
26 27 16 00-0107	EA	12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	229.76		41.53
26 27 16 00-0108	EA	12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	247.52		44.13
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)					
26 27 16 00-0110	EA	6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	169.64		31.15
26 27 16 00-0111	EA	8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	186.92		33.74
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)					
26 27 16 00-0113	4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)				
26 27 16 00-0114	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	238.74		20.76
26 27 16 00-0115	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	286.06		28.56
26 27 16 00-0116	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	323.59		31.15
26 27 16 00-0117	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	370.16		36.34
26 27 16 00-0118	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	380.59		38.94
26 27 16 00-0119	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	449.86		41.53
26 27 16 00-0120	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	483.07		44.13
26 27 16 00-0121	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	549.99		46.72
26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)					
26 27 16 00-0123	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	348.59		31.15

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0124	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	394.20	33.74
26 27 16 00-0125	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	429.51	38.94
26 27 16 00-0126	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	507.94	46.72
26 27 16 00-0127	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	551.52	51.92
26 27 16 00-0128	EA	16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	766.27	67.49
26 27 16 00-0129	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,187.51	103.83
26 27 16 00-0130	EA	24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,556.89	119.41
26 27 16 00-0131	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,755.74	129.79
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)				
26 27 16 00-0133	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,622.73	132.39
26 27 16 00-0134	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,870.95	142.77
26 27 16 00-0135	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,057.14	150.56
26 27 16 00-0136	EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,268.96	155.75
26 27 16 00-0137	EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,237.54	155.75
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)				
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)				
26 27 16 00-0140	EA	60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,179.13	210.91
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)				
26 27 16 00-0142	EA	60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,247.27	233.62
26 27 16 00-0143	EA	60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,314.57	249.84
26 27 16 00-0144	EA	72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,563.56	311.49
26 27 16 00-0145	EA	72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,677.52	367.31
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)				
26 27 16 00-0147	EA	60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,722.25	367.31
26 27 16 00-0148	EA	60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,609.83	389.38
26 27 16 00-0149	EA	72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,780.96	415.33
26 27 16 00-0150	EA	72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,796.28	415.33
26 27 16 00-0151 NEMA 3 Enclosures, Lockable (26 27 16)				
Note: Can be used underground or encased in concrete.				
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)				
26 27 16 00-0153	EA	4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	348.19	90.85
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)				
26 27 16 00-0155	EA	4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	374.54	90.85
26 27 16 00-0156	EA	5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	480.77	94.10
26 27 16 00-0157	EA	6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	498.70	94.10
26 27 16 00-0158	EA	6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	628.60	97.34
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)				
26 27 16 00-0160	EA	4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	475.93	94.10
26 27 16 00-0161	EA	5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	522.80	94.10
26 27 16 00-0162	EA	6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	545.05	97.34
26 27 16 00-0163	EA	6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	689.04	97.34
26 27 16 00-0164	EA	8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	757.77	103.83
26 27 16 00-0165	EA	8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	815.82	110.32
26 27 16 00-0166	EA	10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	850.07	110.32
26 27 16 00-0167	EA	10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,012.67	113.57
26 27 16 00-0168	EA	12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,099.27	116.81
26 27 16 00-0169	EA	12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,508.11	129.79
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)				
26 27 16 00-0171	EA	6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	727.96	100.59
26 27 16 00-0172	EA	8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	918.76	113.57
26 27 16 00-0173	EA	8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,078.21	116.81
26 27 16 00-0174	EA	10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,244.12	120.05
26 27 16 00-0175	EA	10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,324.90	120.05
26 27 16 00-0176	EA	12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,507.68	129.79
26 27 16 00-0177	EA	12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,744.40	146.01
26 27 16 00-0178	EA	16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,643.52	139.52
26 27 16 00-0179	EA	18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,196.64	259.58
26 27 16 00-0180	EA	18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,551.92	324.47



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 27 16 00-0181	8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)			
26 27 16 00-0182	EA	8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,337.17	123.30
26 27 16 00-0183	EA	12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,013.39	162.24
26 27 16 00-0184	EA	12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,046.38	162.24
26 27 16 00-0185	EA	16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,769.80	243.35
26 27 16 00-0186	EA	18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,654.90	259.58
26 27 16 00-0187	EA	24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	9,297.48	454.27
26 27 16 00-0188	10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)			
26 27 16 00-0189	EA	18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,875.80	324.47
26 27 16 00-0190	12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)			
26 27 16 00-0191	EA	18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	7,511.22	389.38
26 27 16 00-0192	EA	24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,173.07	356.93
26 27 16 00-0193	NEMA 3R Enclosures, Lockable (26 27 16) Note: Rain-tight enclosures.			
26 27 16 00-0194	Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)			
26 27 16 00-0195	4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)			
26 27 16 00-0196	EA	6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	110.24	25.96
26 27 16 00-0197	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	121.72	28.56
26 27 16 00-0198	EA	8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	181.43	31.15
26 27 16 00-0199	6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)			
26 27 16 00-0200	EA	8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	228.42	38.94
26 27 16 00-0201	EA	10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	255.18	44.13
26 27 16 00-0202	EA	12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	299.69	49.32
26 27 16 00-0203	EA	12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	324.15	51.92
26 27 16 00-0204	EA	16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	422.04	67.49
26 27 16 00-0205	EA	16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	504.41	83.07
26 27 16 00-0206	EA	18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	575.13	103.83
26 27 16 00-0207	8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)			
26 27 16 00-0208	EA	24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	876.40	132.39
26 27 16 00-0209	EA	24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	972.45	142.77
26 27 16 00-0210	EA	30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,095.85	150.56
26 27 16 00-0211	EA	30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,152.91	155.75
26 27 16 00-0212	10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)			
26 27 16 00-0213	EA	12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,087.08	160.94
26 27 16 00-0214	EA	12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,228.02	181.70
26 27 16 00-0215	EA	12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,359.50	201.17
26 27 16 00-0216	EA	12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,497.84	221.94
26 27 16 00-0217	EA	12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,630.63	241.41
26 27 16 00-0218	EA	18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	705.12	127.19
26 27 16 00-0219	EA	24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,087.08	160.94
26 27 16 00-0220	EA	30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,289.96	166.13
26 27 16 00-0221	EA	36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,636.25	181.70
26 27 16 00-0222	12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)			
26 27 16 00-0223	EA	12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,057.64	128.49
26 27 16 00-0224	EA	12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,185.89	144.07
26 27 16 00-0225	EA	12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,312.84	159.64
26 27 16 00-0226	EA	12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,452.08	176.52
26 27 16 00-0227	EA	12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,580.33	192.09
26 27 16 00-0228	EA	18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	790.16	96.05
26 27 16 00-0229	EA	18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,057.64	128.49
26 27 16 00-0230	EA	18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,185.89	144.07
26 27 16 00-0231	EA	18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,396.22	168.73
26 27 16 00-0232	EA	18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,580.33	192.09
26 27 16 00-0233	EA	30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,501.21	189.50
26 27 16 00-0234	EA	36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,580.33	192.09
26 27 16 00-0235	EA	36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,665.26	197.28
26 27 16 00-0236	EA	36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,856.35	207.66
26 27 16 00-0237	EA	42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	2,014.19	218.05
26 27 16 00-0238	Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)			

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CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 27 16 00-0239	4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240	EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	79.90	20.76
26 27 16 00-0241	EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	96.38	25.96
26 27 16 00-0242	EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	106.44	28.56
26 27 16 00-0243	EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	118.14	31.15
26 27 16 00-0244	EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	137.15	36.34
26 27 16 00-0245	EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	149.64	38.94
26 27 16 00-0246	EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	163.27	41.53
26 27 16 00-0247	EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	162.50	41.53
26 27 16 00-0248	EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	177.91	44.13
26 27 16 00-0249	EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	191.54	46.72
26 27 16 00-0250	EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	288.90	72.69
26 27 16 00-0251	EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure	386.16	93.45
26 27 16 00-0252	6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253	EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	110.50	31.15
26 27 16 00-0254	EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	151.70	38.94
26 27 16 00-0255	EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	171.85	44.13
26 27 16 00-0256	EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	186.54	46.72
26 27 16 00-0257	EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	185.40	46.72
26 27 16 00-0258	EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	201.01	49.32
26 27 16 00-0259	EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	216.76	51.92
26 27 16 00-0260	EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	282.96	67.49
26 27 16 00-0261	EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	325.05	80.47
26 27 16 00-0262	EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	434.63	103.83
26 27 16 00-0263	EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	452.91	111.62
26 27 16 00-0264	EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	519.72	119.41
26 27 16 00-0265	EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure	586.62	129.79
26 27 16 00-0266	8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267	EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	242.88	57.11
26 27 16 00-0268	EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	350.34	88.25
26 27 16 00-0269	EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	481.04	114.21
26 27 16 00-0270	EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	575.02	132.39
26 27 16 00-0271	EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	652.39	142.77
26 27 16 00-0272	EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	726.84	150.56
26 27 16 00-0273	10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274	EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	530.39	127.19
26 27 16 00-0275	EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	716.38	160.94
26 27 16 00-0276	EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	788.61	166.13
26 27 16 00-0277	12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278	EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	791.73	176.52
26 27 16 00-0279	EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,116.48	192.09
26 27 16 00-0280	EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,154.21	197.28
26 27 16 00-0281	EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,355.78	207.66
26 27 16 00-0282	NEMA 4 Enclosures, Lockable (26 27 16) Note: Water-tight enclosures.		
26 27 16 00-0283	Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0284	EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	116.80	18.17
26 27 16 00-0285	EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	136.53	22.07
26 27 16 00-0286	EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	170.82	28.56
26 27 16 00-0287	EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	162.71	28.56
26 27 16 00-0288	EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	217.57	38.94
26 27 16 00-0289	EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	270.83	46.72
26 27 16 00-0290	EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	250.31	44.13
26 27 16 00-0291	EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	291.88	51.92
26 27 16 00-0292	EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	343.27	59.70
26 27 16 00-0293	EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	416.47	75.28
26 27 16 00-0294	Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295	EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	107.38	18.17
26 27 16 00-0296	EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	153.31	28.56
26 27 16 00-0297	Screw Cover, Fiberglass NEMA 4 Or 4X Enclosures (26 27 16 00-0282)		
26 27 16 00-0298	EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	135.11	24.92
26 27 16 00-0299	EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	143.60	26.99
26 27 16 00-0300	EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	176.54	35.30
26 27 16 00-0301	EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	206.20	38.94



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0302	EA		14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	266.43	49.32
26 27 16 00-0303	EA		16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	311.51	58.40
26 27 16 00-0304	EA		18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	440.11	93.45
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)					
Note: Water-tight enclosures.					
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)					
26 27 16 00-0307	EA		6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	230.63	20.76
26 27 16 00-0308	EA		6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	272.39	28.56
26 27 16 00-0309	EA		10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	345.59	38.94
26 27 16 00-0310	EA		12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	419.48	46.72
26 27 16 00-0311	EA		14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	517.42	59.70
26 27 16 00-0312	EA		16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	611.59	75.28
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)					
26 27 16 00-0314	EA		4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	361.77	18.17
			For 316 Stainless Steel, Add	50.61	
26 27 16 00-0315	EA		6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	469.67	25.96
			For 316 Stainless Steel, Add	64.76	
26 27 16 00-0316	EA		6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	532.53	28.56
			For 316 Stainless Steel, Add	73.78	
26 27 16 00-0317	EA		8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	610.04	31.15
			For 316 Stainless Steel, Add	85.15	
26 27 16 00-0318	EA		10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	748.99	38.94
			For 316 Stainless Steel, Add	104.26	
26 27 16 00-0319	EA		12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,055.49	49.32
			For 316 Stainless Steel, Add	149.15	
26 27 16 00-0320	EA		14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,316.48	59.70
			For 316 Stainless Steel, Add	186.76	
26 27 16 00-0321	EA		16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,585.87	75.28
			For 316 Stainless Steel, Add	223.63	
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)					
Note: NEMA 3R, 4, 4X and 12 rated.					
26 27 16 00-0323	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	156.52	28.56
26 27 16 00-0324	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	176.46	31.15
26 27 16 00-0325	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	201.77	36.34
26 27 16 00-0326	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	219.46	38.94
26 27 16 00-0327	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	253.72	44.13
26 27 16 00-0328	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	238.03	44.13
26 27 16 00-0329	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	277.84	49.32
26 27 16 00-0330	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	348.67	59.70
26 27 16 00-0331	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	444.16	81.76
26 27 16 00-0332	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	569.10	117.72
26 27 16 00-0333	EA		6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	168.86	28.56
26 27 16 00-0334	EA		8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	191.03	31.15
26 27 16 00-0335	EA		8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	217.45	36.34
26 27 16 00-0336	EA		10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	238.50	38.94
26 27 16 00-0337	EA		12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	273.88	44.13
26 27 16 00-0338	EA		10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	257.09	44.13
26 27 16 00-0339	EA		12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	303.68	49.32
26 27 16 00-0340	EA		14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	362.12	59.70
26 27 16 00-0341	EA		16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	472.18	81.76
26 27 16 00-0342	EA		18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	599.34	117.72
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)					
Note: NEMA 3R, 4, 4X and 12 rated.					
26 27 16 00-0344	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	191.26	28.56
26 27 16 00-0345	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	204.47	31.15
26 27 16 00-0346	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	232.01	36.34
26 27 16 00-0347	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	250.83	38.94
26 27 16 00-0348	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	297.42	44.13
26 27 16 00-0349	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	272.77	44.13
26 27 16 00-0350	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	336.16	49.32
26 27 16 00-0351	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	399.10	59.70
26 27 16 00-0352	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	487.87	81.76
26 27 16 00-0353	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	626.23	117.72
26 27 16 00-0354	EA		6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	200.22	28.56
26 27 16 00-0355	EA		8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	221.27	31.15
26 27 16 00-0356	EA		8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	247.69	36.34
26 27 16 00-0357	EA		10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	267.63	38.94
26 27 16 00-0358	EA		12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	319.83	44.13
26 27 16 00-0359	EA		10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	291.81	44.13
26 27 16 00-0360	EA		12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	359.69	49.32
26 27 16 00-0361	EA		14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	410.30	59.70
26 27 16 00-0362	EA		16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	524.83	81.76
26 27 16 00-0363	EA		18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	665.45	117.72

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 27 16 00-0364	NEMA 7/9 Enclosures, Lockable (26 27 16)			
	Note: Nominal inside dimensions.			
26 27 16 00-0365	4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)			
26 27 16 00-0366	EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,576.41	146.01	
	For Mounting Pan, Add	67.99		
26 27 16 00-0367	EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,251.16	155.75	
	For Mounting Pan, Add	126.69		
26 27 16 00-0368	EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,464.89	175.21	
	For Mounting Pan, Add	174.69		
26 27 16 00-0369	6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)			
26 27 16 00-0370	EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,188.98	175.21	
	For Mounting Pan, Add	88.83		
26 27 16 00-0371	EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,859.29	180.09	
	For Mounting Pan, Add	174.69		
26 27 16 00-0372	EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,924.29	194.68	
	For Mounting Pan, Add	133.63		
26 27 16 00-0373	EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,001.84	194.68	
	For Mounting Pan, Add	156.35		
26 27 16 00-0374	EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,248.92	243.35	
	For Mounting Pan, Add	205.12		
26 27 16 00-0375	EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,006.90	219.02	
	For Mounting Pan, Add	128.07		
26 27 16 00-0376	EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,142.74	243.35	
	For Mounting Pan, Add	191.64		
26 27 16 00-0377	EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,390.12	438.05	
	For Mounting Pan, Add	257.82		
26 27 16 00-0378	EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,082.01	292.02	
	For Mounting Pan, Add	251.03		
26 27 16 00-0379	EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,654.14	486.72	
	For Mounting Pan, Add	230.46		
26 27 16 00-0380	EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,989.45	486.72	
	For Mounting Pan, Add	374.65		
26 27 16 00-0381	8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)			
26 27 16 00-0382	EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,414.14	219.02	
	For Mounting Pan, Add	133.63		
26 27 16 00-0383	EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,438.25	219.02	
	For Mounting Pan, Add	156.35		
26 27 16 00-0384	EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,897.27	219.02	
	For Mounting Pan, Add	205.12		
26 27 16 00-0385	EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,318.64	243.35	
	For Mounting Pan, Add	128.07		
26 27 16 00-0386	EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,265.78	438.05	
	For Mounting Pan, Add	191.64		
26 27 16 00-0387	EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,624.32	535.39	
	For Mounting Pan, Add	257.82		
26 27 16 00-0388	EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	12,004.35	632.73	
	For Mounting Pan, Add	387.73		
26 27 16 00-0389	EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	6,857.69	535.39	
	For Mounting Pan, Add	251.03		
26 27 16 00-0390	EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	7,046.59	535.39	
	For Mounting Pan, Add	230.46		
26 27 16 00-0391	EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	10,529.53	584.06	
	For Mounting Pan, Add	345.45		
26 27 16 00-0392	EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	8,689.24	535.39	
	For Mounting Pan, Add	374.65		
26 27 16 00-0393	EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	11,625.89	584.06	
	For Mounting Pan, Add	547.85		
26 27 16 00-0394	EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	11,545.69	584.06	
	For Mounting Pan, Add	730.36		
26 27 16 00-0395	EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	17,943.71	778.74	
	For Mounting Pan, Add	912.81		
26 27 16 00-0396	EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	13,650.91	632.73	
	For Mounting Pan, Add	848.76		
26 27 16 00-0397	EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	24,757.36	973.42	
	For Mounting Pan, Add	1,161.94		
26 27 16 00-0398	10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)			
26 27 16 00-0399	EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	12,490.28	632.73	
	For Mounting Pan, Add	387.73		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 27 16 00-0400	EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	11,497.40		584.06
		345.45		
26 27 16 00-0401	EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	12,526.44		632.73
		547.85		
26 27 16 00-0402	EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	15,840.64		681.40
		912.81		
26 27 16 00-0403	EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	14,005.29		681.40
		848.76		
26 27 16 00-0404	EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	26,983.47		973.42
		1,161.94		
26 27 16 00-0405	12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)			
26 27 16 00-0406	EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure For Mounting Pan, Add	7,797.63		535.39
		257.82		
26 27 16 00-0407	Breaker Enclosures (26 27 16)			
	See CSI section 26 24 16 00-0001 for lighting and power panel boards.			
26 27 16 00-0408	15 To 100 Amperes, F-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0409	EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	421.18		103.83
26 27 16 00-0410	EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	772.54		103.83
26 27 16 00-0411	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,902.20		142.77
26 27 16 00-0412	EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	2,577.76		155.75
26 27 16 00-0413	EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure	1,880.70		155.75
26 27 16 00-0414	EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure	664.02		142.77
26 27 16 00-0415	15 To 250 Amperes, H Or J-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0416	EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	671.90		142.77
26 27 16 00-0417	EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	1,234.54		142.77
26 27 16 00-0418	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	4,210.20		181.70
26 27 16 00-0419	EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure	1,020.91		181.70
26 27 16 00-0420	125 To 400 Amperes, L-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0421	EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,053.46		285.53
26 27 16 00-0422	EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	2,440.90		285.53
26 27 16 00-0423	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	7,135.94		363.42
26 27 16 00-0424	EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,746.87		363.42
26 27 16 00-0425	300 To 800 Amperes, M-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0426	EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	2,063.02		545.12
26 27 16 00-0427	EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	3,529.44		545.12
26 27 16 00-0428	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	12,840.35		700.87
26 27 16 00-0429	EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	6,957.74		700.87
26 27 16 00-0430	250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)			
26 27 16 00-0431	EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	2,513.79		545.12
26 27 16 00-0432	EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	4,242.31		545.12
26 27 16 00-0433	EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	8,742.75		700.87
26 27 16 00-0434	Legend Plates (26 27 16)			
26 27 16 00-0435	EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters	22.47		6.49
26 27 16 00-0436	EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters	29.93		6.49
26 27 23	Indoor Service Poles (26 27)			
26 27 23 00-0001	Communication And Power Poles (26 27 23)			
	Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.			
26 27 23 00-0002	Steel Communication And Power Poles (26 27 23 00-0001)			
26 27 23 00-0003	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)			
26 27 23 00-0004	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)			
26 27 23 00-0005	EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	336.40		57.52
26 27 23 00-0006	EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	365.15		57.52
26 27 23 00-0007	EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	398.41		57.52

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0008		Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003) Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	68.88	11.86
26 27 23 00-0010	EA	Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles	59.80	11.86
26 27 23 00-0011	EA	Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	67.62	11.86
26 27 23 00-0012	EA	Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	50.28	11.86
26 27 23 00-0013	EA	Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	41.53	11.86
26 27 23 00-0014		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015		2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016	EA	2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	435.01	57.52
26 27 23 00-0017	EA	2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	496.82	57.52
26 27 23 00-0018	EA	2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	530.17	57.52
26 27 23 00-0019		Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020	EA	Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	46.41	11.86
26 27 23 00-0021	EA	Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	41.80	11.86
26 27 23 00-0022	EA	Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	45.10	11.86
26 27 23 00-0023		3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024		3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025	EA	3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	565.98	57.52
26 27 23 00-0026	EA	3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	640.38	57.52
26 27 23 00-0027	EA	3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	689.41	57.52
26 27 23 00-0028		Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029	EA	Add-On 3" Width Steel Cover Plate For One Single Receptacle	46.41	11.86
26 27 23 00-0030	EA	Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	41.80	11.86
26 27 23 00-0031	EA	Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices	45.10	11.86
26 27 23 00-0032		Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035	EA	2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	454.36	57.52
26 27 23 00-0036	EA	2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	506.38	57.52
26 27 23 00-0037	EA	2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	564.68	57.52
26 27 23 00-0038		Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0039	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle	70.65	11.86
26 27 23 00-0040	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles	72.12	11.86
26 27 23 00-0041	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	77.01	11.86
26 27 23 00-0042	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices	53.02	11.86
26 27 23 00-0043	EA	Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting	41.53	11.86
26 27 23 00-0044		2-1/4" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0045	EA	2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	438.12	57.52
26 27 23 00-0046	EA	2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	491.47	57.52
26 27 23 00-0047	EA	2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	554.31	57.52
26 27 23 00-0048		5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0049	EA	5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	913.28	57.52
26 27 23 00-0050	EA	5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	1,044.11	57.52
26 27 23 00-0051	EA	5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	1,190.64	57.52
26 27 23 00-0052		2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)		
26 27 23 00-0053	EA	2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	497.74	57.52
26 27 23 00-0054	EA	2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole	471.38	57.52
26 27 23 00-0055	EA	2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole	602.96	57.52



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 Wiring Devices (26 27)		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles (26 27 26)		
26 27 26 00-0002 General Use Receptacles (26 27 26 00-0001)		
26 27 26 00-0003 Receptacle Assemblies (26 27 26 00-0002)		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	102.15	46.07
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	109.60	49.32
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	131.98	59.05
26 27 26 00-0007 EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	146.87	65.54
26 27 26 00-0008 EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	115.10	46.07
26 27 26 00-0009 EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	123.24	49.32
26 27 26 00-0010 Receptacle Components (26 27 26 00-0002)		
26 27 26 00-0011 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle.....	29.49	12.98
26 27 26 00-0012 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle.....	28.74	12.98
26 27 26 00-0013 EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle.....	33.19	12.98
26 27 26 00-0014 EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle.....	35.77	12.98
26 27 26 00-0015 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle.....	45.54	16.22
26 27 26 00-0016 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle.....	54.00	16.22
26 27 26 00-0017 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle.....	30.49	12.98
26 27 26 00-0018 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle.....	29.69	12.98
26 27 26 00-0019 EA 20 Amperes, 120/277 Volt, Single Receptacle.....	41.31	12.98
26 27 26 00-0020 EA 20 Amperes, 120/277 Volt, Duplex Receptacle.....	34.96	12.98
26 27 26 00-0021 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle.....	45.54	16.22
26 27 26 00-0022 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle.....	54.00	16.22
26 27 26 00-0023 EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle.....	81.14	16.22
26 27 26 00-0024 EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle.....	81.14	16.22
26 27 26 00-0025 EA 25 Amperes, 120/277 Volt, Duplex Receptacle.....	70.21	19.47
26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)		
26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)		
26 27 26 00-0028 EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle.....	64.63	22.71
26 27 26 00-0029 EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle.....	64.63	22.71
26 27 26 00-0030 EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles.....	88.52	22.71
26 27 26 00-0031 EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle.....	94.12	22.71
26 27 26 00-0032 EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle.....	100.61	25.96
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	93.57	25.96
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	91.59	25.96
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	81.37	25.96
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	107.09	25.96
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	111.43	25.96
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	117.91	29.20
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle.....	129.80	32.45
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle.....	142.78	38.94
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete.....	1,332.44	305.00
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete.....	3,139.35	373.15
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle.....	76.75	25.96
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle.....	112.65	38.94
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle.....	69.42	16.22
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete.....	1,422.88	395.30
26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)		
26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	98.03	12.98
Note: 2 Pole, 3 wire.		
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	59.79	16.22
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex.....	59.59	16.22
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	83.94	25.96
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles.....	66.30	16.22
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles.....	61.23	16.22
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles.....	83.57	19.47
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles.....	67.79	19.47
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles.....	85.44	19.47
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles.....	102.65	19.47
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles.....	103.49	25.96
26 27 26 00-0059 Explosion Proof Receptacle Assembly (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	987.89	32.45
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	909.94	35.69
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,512.59	64.89
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,906.15	64.89
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	2,411.27	97.34

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly	2,297.34	97.34
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	38.44	16.22
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle	56.31	19.47
26 27 26 00-0069 EA 15 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	40.71	22.12
26 27 26 00-0070 EA 20 Amperes, 120 Volt, Ground Fault Circuit Interrupter (GFCI), Weatherproof Duplex Receptacle	69.59	25.96
26 27 26 00-0071 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0072 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	66.69	16.22
26 27 26 00-0073 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle	72.96	16.22
26 27 26 00-0074 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0075 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle	59.51	16.22
26 27 26 00-0076 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle	73.55	16.22
26 27 26 00-0077 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle	65.84	19.47
26 27 26 00-0078 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle	65.22	19.47
26 27 26 00-0079 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle	77.57	19.47
26 27 26 00-0080 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle	93.54	19.47
26 27 26 00-0081 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	91.77	19.47
26 27 26 00-0082 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle	80.10	19.47
26 27 26 00-0083 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle	90.97	25.96
26 27 26 00-0084 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking Receptacle	92.46	25.96
26 27 26 00-0085 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle	110.46	25.96
26 27 26 00-0086 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0087 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W)	294.16	64.89
26 27 26 00-0088 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W)	293.48	64.89
26 27 26 00-0089 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W)	306.30	64.89
26 27 26 00-0090 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W)	373.65	71.38
26 27 26 00-0091 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W)	374.72	71.38
26 27 26 00-0092 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W)	372.25	71.38
26 27 26 00-0093 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W)	446.13	79.82
26 27 26 00-0094 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W)	425.28	79.82
26 27 26 00-0095 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W)	457.92	79.82
26 27 26 00-0096 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W)	462.57	87.61
26 27 26 00-0097 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W)	462.17	87.61
26 27 26 00-0098 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W)	465.12	87.61
26 27 26 00-0099 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W)	650.64	103.83
26 27 26 00-0100 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W)	625.39	103.83
26 27 26 00-0101 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W)	641.83	103.83
26 27 26 00-0102 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	714.76	115.52
26 27 26 00-0103 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	715.25	115.52
26 27 26 00-0104 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	715.73	115.52
26 27 26 00-0105 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	795.56	129.79
26 27 26 00-0106 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	827.93	129.79
26 27 26 00-0107 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	890.74	142.77
26 27 26 00-0108 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	888.31	142.77
26 27 26 00-0109 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	892.88	142.77
26 27 26 00-0110 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0111 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	71.11	12.98
26 27 26 00-0112 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	139.14	16.22
26 27 26 00-0113 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0114 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	31.99	12.98
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0115 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	35.09	12.98
Note: Pass & Seymour TR20.		
26 27 26 00-0116 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	44.00	12.98
Note: Pass & Seymour TR5251.		
26 27 26 00-0117 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	48.17	12.98
Note: Pass & Seymour TR5351.		
26 27 26 00-0118 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle	73.26	12.98
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0119 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	79.25	12.98
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0120 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	84.95	12.98
Note: Pass & Seymour 2095-TRS.		
26 27 26 00-0121 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0122 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	75.45	12.98
26 27 26 00-0123 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	81.63	12.98
26 27 26 00-0124 Television Receptacle (26 27 26 00-0001)		
26 27 26 00-0125 EA TV Receptacle With Cover (Type F), Complete.....	79.20	30.11
26 27 26 00-0126 Switches (26 27 26)		
26 27 26 00-0127 Switches (26 27 26 00-0126)		
26 27 26 00-0128 Switch Assemblies (26 27 26 00-0127)		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0129 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	105.01	45.43
26 27 26 00-0130 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	113.28	49.32
26 27 26 00-0131 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	140.95	59.38
26 27 26 00-0132 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	154.87	65.86
26 27 26 00-0133 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	240.69	101.89
26 27 26 00-0134 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	261.57	111.62
26 27 26 00-0135 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	276.75	115.19
26 27 26 00-0136 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	304.59	128.17
26 27 26 00-0137 Switch Components (26 27 26 00-0127)		
26 27 26 00-0138 EA 15 Amperes, 120/277 Volt, SPST Switch	32.90	12.98
26 27 26 00-0139 EA 15 Amperes, 120/277 Volt, 3-Way Switch	41.57	16.22
26 27 26 00-0140 EA 15 Amperes, 120/277 Volt, 4-Way Switch	78.39	25.96
26 27 26 00-0141 EA 15 Amperes, 120/277 Volt, DPST Switch	36.94	12.98
26 27 26 00-0142 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	66.96	16.22
26 27 26 00-0143 EA 20 Amperes, 120/277 Volt, SPST Switch	39.86	16.22
26 27 26 00-0144 EA 20 Amperes, 120/277 Volt, 3-Way Switch	49.07	19.47
26 27 26 00-0145 EA 20 Amperes, 120/277 Volt, 4-Way Switch	102.41	25.96
26 27 26 00-0146 EA 20 Amperes, 120/277 Volt, DPST Switch	46.33	16.22
26 27 26 00-0147 EA 20 Amperes, 120/277 Volt, DPDT Switch	49.20	16.22
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	90.28	16.26
26 27 26 00-0149 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	113.90	16.26
26 27 26 00-0150 EA Momentary Contact Switch With Separate Neon Pilot.....	86.77	19.51
Note: Neon Pilot is 125 V, 1 / 125W.		
26 27 26 00-0151 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off	59.81	22.71
Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0152 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch.....	72.87	25.96
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0153 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch.....	102.47	25.96
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0154 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch	90.49	26.02
26 27 26 00-0155 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	111.73	26.02
26 27 26 00-0156 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	116.68	32.52
26 27 26 00-0157 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch	163.17	35.77
26 27 26 00-0158 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	77.44	21.27
26 27 26 00-0159 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	109.80	21.27
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0160 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch	95.85	21.27
26 27 26 00-0161 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	91.05	21.27
26 27 26 00-0162 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	101.48	10.54
26 27 26 00-0163 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	107.99	10.54
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	114.61	40.59
26 27 26 00-0165 EA Three Position, Center Off, Key Operated, Momentary Contact Switch	138.23	40.59
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0166 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	165.36	13.01
26 27 26 00-0167 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	89.60	13.01
26 27 26 00-0168 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	279.93	12.98
26 27 26 00-0169 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	52.95	12.98
26 27 26 00-0170 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	95.48	13.01
26 27 26 00-0171 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000)	109.56	13.01
26 27 26 00-0172 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000)	140.26	13.01
26 27 26 00-0173 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	170.29	13.01
26 27 26 00-0174 Specialty Switches (26 27 26 00-0126)		
26 27 26 00-0175 Dimmers With SPST Switch (26 27 26 00-0174)		
26 27 26 00-0176 EA 600 Watt Dimmers With SPST Switch	73.41	29.20
26 27 26 00-0177 EA 1,000 Watt Dimmers With SPST Switch	120.24	29.20
26 27 26 00-0178 EA 1,500 Watt Dimmers With SPST Switch	214.95	46.99
26 27 26 00-0179 EA 2,000 Watt Dimmers With SPST Switch	274.71	46.99
26 27 26 00-0180 EA 600 Watt Fluorescent Dimmer Switch.....	155.38	34.66
26 27 26 00-0181 EA 1,000 Watt Fluorescent Dimmer Switch.....	206.80	34.66
26 27 26 00-0182 EA 1,500 Watt Fluorescent Dimmer Switch.....	371.32	52.30
26 27 26 00-0183 EA Remote Speed Switch For Paddle Fan.....	119.53	43.22
26 27 26 00-0184 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	195.19	64.51

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0185 Time Switches (26 27 26 00-0174)		
26 27 26 00-0186 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	131.97	38.94
26 27 26 00-0187 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	134.67	38.94
26 27 26 00-0188 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	131.97	38.94
26 27 26 00-0189 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch	134.67	38.94
26 27 26 00-0190 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	150.00	38.94
26 27 26 00-0191 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	150.00	38.94
26 27 26 00-0192 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch	256.39	38.94
26 27 26 00-0193 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch	256.39	38.94
26 27 26 00-0194 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	222.25	38.94
26 27 26 00-0195 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	243.10	38.94
26 27 26 00-0196 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch	243.10	38.94
26 27 26 00-0197 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	292.36	38.94
26 27 26 00-0198 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	300.65	38.94
26 27 26 00-0199 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	131.97	38.94
26 27 26 00-0200 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	134.67	38.94
26 27 26 00-0201 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	131.97	38.94
26 27 26 00-0202 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	134.67	38.94
26 27 26 00-0203 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	150.00	38.94
26 27 26 00-0204 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	150.00	38.94
26 27 26 00-0205 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	256.39	38.94
26 27 26 00-0206 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch	256.39	38.94
26 27 26 00-0207 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch	292.36	38.94
26 27 26 00-0208 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch	300.65	38.94
26 27 26 00-0209 Low Voltage Switching (26 27 26 00-0174)		
26 27 26 00-0210 EA 36 Pin Male Or Female Connector	200.85	12.98
26 27 26 00-0211 Other Switches (26 27 26 00-0174)		
26 27 26 00-0212 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	42.29	19.47
26 27 26 00-0213 EA SPST Locking Switch For Concealed Devices	127.06	51.92
26 27 26 00-0214 EA 3-Way Locking Switch For Concealed Devices	128.53	51.92
26 27 26 00-0215 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	138.31	48.54
26 27 26 00-0216 EA 15 Amperes Momentary Contact Switch	132.40	48.54
26 27 26 00-0217 EA 20 Amperes Momentary Contact Switch	138.62	48.54
26 27 26 00-0218 EA 2-1/4" Handy Box Cover Units Fuseholder Switch	134.42	58.53
26 27 26 00-0219 EA 2-3/4" Handy Box Cover Units Fuseholder Switch	136.16	58.53
26 27 26 00-0220 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches	167.38	71.54
26 27 26 00-0221 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	152.20	65.04
26 27 26 00-0222 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	152.63	65.04
26 27 26 00-0223 Plates And Covers (26 27 26)		
26 27 26 00-0224 Wall Plates (26 27 26 00-0223)		
26 27 26 00-0225 Nylon Wall Plates (26 27 26 00-0224)		
26 27 26 00-0226 EA 1 Gang Nylon Switch Wall Plates	2.07	0.65
26 27 26 00-0227 EA 2 Gang Nylon Switch Wall Plates	3.50	0.98
26 27 26 00-0228 EA 3 Gang Nylon Switch Wall Plates	4.98	1.30
26 27 26 00-0229 EA 4 Gang Nylon Switch Wall Plate	7.18	1.63
26 27 26 00-0230 EA 1 Gang Duplex Nylon Wall Plate	2.09	0.65
26 27 26 00-0231 EA 2 Gang Duplex Nylon Wall Plate	3.59	0.98
26 27 26 00-0232 Plastic Wall Plates (26 27 26 00-0224)		
26 27 26 00-0233 EA 1 Gang Plastic Switch Wall Plates	1.92	0.65
26 27 26 00-0234 EA 2 Gang Plastic Switch Wall Plates	3.19	0.98
26 27 26 00-0235 EA 3 Gang Plastic Switch Wall Plates	4.48	1.30
26 27 26 00-0236 EA 4 Gang Plastic Switch Wall Plates	7.18	1.63
26 27 26 00-0237 EA 1 Gang Duplex Plastic Wall Plate	1.92	0.65
26 27 26 00-0238 EA 2 Gang Duplex Plastic Wall Plate	3.20	0.98
26 27 26 00-0239 Brass Wall Plates (26 27 26 00-0224)		
26 27 26 00-0240 EA 1 Gang, 0.04" Brass Switch Wall Plates	20.42	2.93
26 27 26 00-0241 EA 2 Gang, 0.04" Brass Switch Wall Plates	38.39	3.38
26 27 26 00-0242 EA 3 Gang, 0.04" Brass Switch Wall Plates	56.21	3.77
26 27 26 00-0243 EA 4 Gang, 0.04" Brass Switch Wall Plates	87.54	4.10
26 27 26 00-0244 EA 5 Gang, 0.04" Brass Switch Wall Plates	106.67	4.35
26 27 26 00-0245 EA 6 Gang, 0.04" Brass Switch Wall Plates	123.49	4.55
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	20.42	2.93
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	45.02	3.38
26 27 26 00-0248 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	64.95	3.77



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0249 Stainless Steel Wall Plates (26 27 26 00-0224)		
26 27 26 00-0250 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	10.84	2.93
26 27 26 00-0251 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	17.46	3.38
26 27 26 00-0252 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	24.43	3.77
26 27 26 00-0253 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	35.93	4.10
26 27 26 00-0254 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	42.35	4.35
26 27 26 00-0255 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	51.27	4.55
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	11.89	2.93
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	19.94	3.38
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	32.65	3.77
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	39.50	4.10
26 27 26 00-0260 Chrome Wall Plates (26 27 26 00-0224)		
26 27 26 00-0261 EA 1 Gang, 0.040" Chrome Switch Wall Plate	41.03	2.93
26 27 26 00-0262 EA 2 Gang 0.040" Chrome Switch Wall Plate	77.01	3.38
26 27 26 00-0263 EA 3 Gang 0.040" Chrome Switch Wall Plate	112.93	3.77
26 27 26 00-0264 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	41.00	2.93
26 27 26 00-0265 Weatherproof Covers (26 27 26 00-0223)		
26 27 26 00-0266 Stamped Metallic Weatherproof Covers (26 27 26 00-0265)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0267 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	13.89	0.65
26 27 26 00-0268 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	15.05	0.65
26 27 26 00-0269 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	15.05	0.65
26 27 26 00-0270 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	15.05	0.65
26 27 26 00-0271 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	18.44	0.98
26 27 26 00-0272 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	20.95	0.98
26 27 26 00-0273 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	21.21	0.98
26 27 26 00-0274 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	21.21	0.98
26 27 26 00-0275 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	28.88	0.98
26 27 26 00-0276 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	27.30	1.30
26 27 26 00-0277 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	29.87	1.30
26 27 26 00-0278 Cast Metallic Weatherproof Covers (26 27 26 00-0265)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0279 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	17.02	0.65
26 27 26 00-0280 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	54.55	0.65
26 27 26 00-0281 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	61.18	0.65
26 27 26 00-0282 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG)	16.89	0.65
26 27 26 00-0283 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	46.23	0.65
26 27 26 00-0284 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	76.96	0.65
26 27 26 00-0285 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	98.00	0.65
26 27 26 00-0286 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	21.21	0.98
26 27 26 00-0287 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST)	154.82	0.98
26 27 26 00-0288 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	35.54	1.30
26 27 26 00-0289 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST)	147.85	1.30
26 27 26 00-0290 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0265)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0291 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	5.70	0.65
26 27 26 00-0292 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026)	7.31	0.65
26 27 26 00-0293 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032)	9.81	0.98
26 27 26 00-0294 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	10.64	0.98
26 27 26 00-0295 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	10.64	0.98
26 27 26 00-0296 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	11.85	0.98
26 27 26 00-0297 Heavy-Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0265)		
Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0298 EA Duplex Receptacle, Single Gang, Heavy-Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510)	58.09	0.65
26 27 26 00-0299 Polycarbonate Weatherproof Covers (26 27 26 00-0265)		
Note: Includes neoprene gasket.		
26 27 26 00-0300 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.71	0.65
26 27 26 00-0301 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.71	0.65
26 27 26 00-0302 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.71	0.65
26 27 26 00-0303 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	14.48	0.98
26 27 26 00-0304 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	14.48	0.98

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 27 26 00-0305	High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0265) Note: Includes neoprene gasket.				
26 27 26 00-0306	EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	94.91		0.65	
26 27 26 00-0307	Non-Metallic (PVC) Weatherproof Covers (26 27 26 00-0265) Note: Includes neoprene gasket.				
26 27 26 00-0308	EA Blank Cover, Single Gang, Non-Metallic (PVC) Weatherproof Cover	13.89		0.65	
26 27 26 00-0309	EA Blank Cover, Two Gang, Non-Metallic (PVC) Weatherproof Cover	14.92		0.97	
26 27 26 00-0310	EA Toggle Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	13.93		0.65	
26 27 26 00-0311	EA Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	30.73		0.65	
26 27 26 00-0312	EA Duplex Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	35.62		0.65	
26 27 26 00-0313	EA 20 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	28.87		0.65	
26 27 26 00-0314	EA 30 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	21.51		0.65	
26 27 26 00-0315	EA 50 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	25.18		0.65	
26 27 26 00-0316	EA Plunger Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	22.51		0.65	
26 27 26 00-0317	EA Double Duplex Receptacle, Two Gang, Non-Metallic (PVC) Weatherproof Cover	32.43		0.97	
26 27 26 00-0318	Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.				
26 27 26 00-0319	EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	85.38			
26 27 26 00-0320	EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	10.81			
26 27 26 00-0321	In Line Midget Fuseholders (26 27 26) See CSI section 26 28 13 00-0078 for fuses.				
26 27 26 00-0322	EA Single Pole Water Resistant In Line Midget Fuseholder	94.56			
26 27 26 00-0323	EA Double Pole Water Resistant In Line Midget Fuseholder	219.24			
26 27 26 00-0324	Relay Systems (26 27 26)				
26 27 26 00-0325	EA 10 Amperes, 24 Volt Coil, 2 Position Relay	98.56		29.20	
26 27 26 00-0326	EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	422.25		97.34	
26 27 26 00-0327	EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	715.07		129.79	
26 27 26 00-0328	Limit Switches (26 27 26)				
26 27 26 00-0329	Heavy-Duty Precision Oiltight (26 27 26 00-0328)				
26 27 26 00-0330	Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0329)				
26 27 26 00-0331	EA Limit Switch, Heavy-Duty, Lever Arm Weatherproof, 10 Amperes Rated	471.01		81.76	
26 27 33	Power Distribution Units (26 27) Note: Includes wiring connections and testing.				
26 27 33 00-0001	Liebert Precision Power Center (26 27 33) Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.				
26 27 33 00-0002	EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	21,971.60		399.11	
26 27 33 00-0003	EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	26,531.84		432.59	
26 27 33 00-0004	EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	30,237.75		480.23	
26 27 33 00-0005	EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	34,792.51		519.16	
26 27 33 00-0006	EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	37,961.93		648.95	
26 27 33 00-0007	EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	42,586.27		778.74	
26 27 33 00-0008	EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	49,136.25		908.53	
26 27 33 00-0009	EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	51,663.80		1,038.33	
26 27 33 00-0010	EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	54,576.46		1,168.12	
26 27 33 00-0011	EA Ex Panelboard 10-30 KVA	1,945.58		129.79	
26 27 33 00-0012	EA Ex Panelboard 50-125 KVA	2,909.10		162.24	
26 27 33 00-0013	EA Ex Panelboard 150-220 KVA	6,568.52		194.68	
26 27 33 00-0014	EA Removal And Reinstallation Of Power Distribution Unit	2,076.65			
26 27 33 00-0015	EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,557.48			
26 27 73	Door Chimes (26 27)				
26 27 73 00-0001	Door Bell Chime And Door Button With Built-In Viewer (26 27 73) Note: Non-electric chime, mounted on door				
26 27 73 00-0002	EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV)	92.44		20.40	
26 27 73 00-0003	Wireless Door Bell System (26 27 73)				
26 27 73 00-0004	EA Wireless Doorbell Chime And Push Button (Broan LA542WH)	147.70			
26 27 73 00-0005	EA Wireless Doorbell Chime And Push Button (STI-3350G)	139.15			
26 27 73 00-0006	EA Wireless Doorbell Chime And Push Button (GE 19300)	104.21			



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Low-Voltage Distribution Equipment	26 27	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 27 73 00-0007 Door Bell Buzzer System, Wired (26 27 73)				
26 27 73 00-0008	EA Door Bell, Push-Button And Transformer, Complete	686.93		270.36
26 27 73 00-0009	EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete	267.00		64.89
26 27 73 00-0010	EA Removal And Replacement Of Bell/Buzzer, Complete	109.97		32.45
Note: Includes removal of existing.				
26 28 Low-Voltage Circuit Protective Devices (26 20)				
26 28 13 Fuses (26 28)				
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)				
26 28 13 00-0002	EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.87		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0003	EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	30.98		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0004	EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	29.78		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0005	EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	29.61		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0006	EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	30.73		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0007	EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	28.54		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0008	EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	28.02		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0009	EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.73		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0010	EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.09		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0011	EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	24.32		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0012	EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	23.46		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)				
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)				
26 28 13 00-0015	EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse	52.93		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0016	EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	49.05		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0017	EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.76		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0018	EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.40		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0019	EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	48.70		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0020	EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	47.08		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0021	EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	42.80		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0022	EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	42.47		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0023	EA 25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	42.82		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0024	EA 30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	42.38		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0025	EA 35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	60.63		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0026	EA 40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	59.34		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0027	EA 45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	60.31		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0028	EA 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	59.51		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0029	EA 60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	58.34		9.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.23		
26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28 13 00-0013)				
26 28 13 00-0031	EA 70 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	111.98		11.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.79		
26 28 13 00-0032	EA 80 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	111.34		11.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.79		
26 28 13 00-0033	EA 90 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	124.44		11.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.79		
26 28 13 00-0034	EA 100 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	110.31		11.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.79		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 28 13 00-0035	EA	110 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	325.96	11.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 28 13 00-0036	EA	125 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	236.67	11.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 28 13 00-0037	EA	150 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	216.24	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0038	EA	200 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	228.14	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0039	EA	250 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	433.59	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0040	EA	300 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	465.43	15.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.51	
26 28 13 00-0041	EA	350 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	501.01	15.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.51	
26 28 13 00-0042	EA	400 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	384.28	15.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.51	
26 28 13 00-0043	EA	450 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	865.82	15.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.51	
26 28 13 00-0044	EA	500 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	817.11	19.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.85	
26 28 13 00-0045	EA	600 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse.....	635.13	19.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.85	
26 28 13 00-0046		600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0047	EA	1 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	84.84	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0048	EA	2 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	78.67	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0049	EA	3 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	73.50	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0050	EA	4 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	75.20	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0051	EA	5 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	73.73	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0052	EA	10 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	74.26	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0053	EA	15 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	68.62	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0054	EA	20 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	68.06	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0055	EA	25 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	67.30	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0056	EA	30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	68.41	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0057	EA	35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	101.88	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0058	EA	40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	102.14	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0059	EA	45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	100.03	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0060	EA	50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	101.03	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0061	EA	60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	101.91	9.35
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.23	
26 28 13 00-0062		600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0063	EA	70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	194.57	11.68
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 28 13 00-0064	EA	80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	198.85	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0065	EA	90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	197.73	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0066	EA	100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	198.61	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0067	EA	110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	370.04	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0068	EA	125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	375.74	12.85
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.57	
26 28 13 00-0069	EA	150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	369.21	15.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.51	
26 28 13 00-0070	EA	200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	368.27	15.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.51	
26 28 13 00-0071	EA	250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	709.93	15.84
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.51	
26 28 13 00-0072	EA	300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	712.43	19.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.85	
26 28 13 00-0073	EA	350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	804.71	19.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.85	
26 28 13 00-0074	EA	400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	728.12	19.34
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.85	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 28 13 00-0075	EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,316.13 12.85	19.34	
26 28 13 00-0076	EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,169.12 15.58	23.36	
26 28 13 00-0077	EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,018.08 15.58	23.36	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13) Note: 250/300 Volt DC.				
26 28 13 00-0079	EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.75 6.23	9.35	
26 28 13 00-0080	EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.77 6.23	9.35	
26 28 13 00-0081	EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.48 6.23	9.35	
26 28 13 00-0082	EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.16 6.23	9.35	
26 28 13 00-0083	EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.00 6.23	9.35	
26 28 13 00-0084	EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.25 6.23	9.35	
26 28 13 00-0085	EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68.36 6.23	9.35	
26 28 13 00-0086	EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.19 6.23	9.35	
26 28 13 00-0087	EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.92 6.23	9.35	
26 28 13 00-0088	EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.01 6.23	9.35	
26 28 13 00-0089	EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.48 6.23	9.35	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26 28 13)				
26 28 13 00-0091	EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.29 3.89	6.49	
26 28 13 00-0092	EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.96 3.89	6.49	
26 28 13 00-0093	EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.26 4.67	7.78	
26 28 13 00-0094	EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.74 5.84	9.73	
26 28 13 00-0095	EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.36 5.84	9.73	
26 28 13 00-0096	EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.92 5.84	9.73	
26 28 13 00-0097	EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.75 7.79	12.98	
26 28 13 00-0098	EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.62 7.79	12.98	
26 28 13 00-0099	EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.82 7.79	12.98	
26 28 13 00-0100	EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.07 7.79	12.98	
26 28 13 00-0101	EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.64 7.79	12.98	
26 28 13 00-0102	EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112.28 9.74	16.22	
26 28 13 00-0103	EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	110.04 9.74	16.22	
26 28 13 00-0104	EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.29 11.68	19.47	
26 28 13 00-0105	EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	186.60 11.68	19.47	
26 28 13 00-0106	EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.46 11.68	19.47	
26 28 13 00-0107	EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.31 13.63	22.71	
26 28 13 00-0108	EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	386.91 13.63	22.71	
26 28 13 00-0109	EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	326.74 13.63	22.71	
26 28 13 00-0110	EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	308.94 15.58	25.96	
26 28 13 00-0111	EA 175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	313.73 15.58	25.96	
26 28 13 00-0112	EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	257.76 15.58	25.96	
26 28 13 00-0113	EA 225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	676.33 15.58	25.96	
26 28 13 00-0114	EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	624.10 15.58	25.96	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0115 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	573.83	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 13 00-0116 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	627.33	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 13 00-0117 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	513.15	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0118 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	1,110.07	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0119 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	937.52	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 13 00-0120 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	692.28	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)		
26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,148.10	16.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,152.36	16.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,156.33	16.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.74	
26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,147.57	19.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68	
26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,977.02	19.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.68	
26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,114.40	22.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.63	
26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,945.08	22.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.63	
26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,176.95	22.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.63	
26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,134.23	22.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.63	
26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,895.13	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,946.52	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,592.41	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,885.82	25.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,901.39	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,664.69	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,437.94	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,636.43	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,685.58	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,765.69	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,712.57	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,348.11	29.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.52	
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,084.47	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,436.37	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,834.13	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,837.16	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,548.44	32.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,277.86	35.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.41	
26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	8,865.93	35.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.41	
26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	10,290.45	35.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.41	
26 28 13 00-0151 EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	5,942.71	35.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.41	
26 28 13 00-0152 EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	9,388.98	35.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.41	
26 28 13 00-0153 EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	15,554.35	35.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.41	

26 28 16 Enclosed Switches and Circuit Breakers (26 28)**26 28 16 13 Enclosed Circuit Breakers (26 28 16)**



	Electrical	26	
	Low-Voltage Electrical Distribution	26 20	26
	Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0001			Branch Circuit Breakers (26 28 16 13)		
			Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.		
26 28 16 13-0002			Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)		
			Note: Includes connection of electrical wire.		
26 28 16 13-0003	EA		1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	64.29	23.36
			For Bolt-On, Add	17.12	
			For Installation In New Panelboard, Deduct	-12.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0004	EA		1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	64.29	23.36
			For Bolt-On, Add	17.12	
			For Installation In New Panelboard, Deduct	-12.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0005	EA		1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	93.44	29.20
			For Bolt-On, Add	23.04	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0006	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	142.52	29.20
			For Bolt-On, Add	29.17	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0007	EA		1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	198.64	29.20
			For Bolt-On, Add	36.19	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0008	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	230.64	29.20
			For Bolt-On, Add	40.19	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0009	EA		1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity	111.60	29.20
			For Bolt-On, Add	25.31	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0010	EA		2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	106.42	35.04
			For Bolt-On, Add	26.93	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0011	EA		2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	106.42	35.04
			For Bolt-On, Add	26.93	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0012	EA		2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	160.93	46.72
			For Bolt-On, Add	38.29	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0013	EA		2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	267.79	58.40
			For Bolt-On, Add	56.19	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0014	EA		2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	315.97	64.89
			For Bolt-On, Add	64.48	
			For Installation In New Panelboard, Deduct	-35.69	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.83	
26 28 16 13-0015	EA		2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	268.76	41.53
			For Bolt-On, Add	49.95	
			For Installation In New Panelboard, Deduct	-23.36	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 28 16 13-0016	EA		2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	360.56	41.53
			For Bolt-On, Add	61.42	
			For Installation In New Panelboard, Deduct	-23.36	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 28 16 13-0017	EA		3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	203.75	46.72
			For Bolt-On, Add	43.64	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	203.75	46.72
For Bolt-On, Add	43.64	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	267.25	58.40
For Bolt-On, Add	56.12	
For Installation In New Panelboard, Deduct	-32.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	405.48	70.09
For Bolt-On, Add	77.94	
For Installation In New Panelboard, Deduct	-38.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	517.80	81.76
For Bolt-On, Add	96.52	
For Installation In New Panelboard, Deduct	-45.43	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.51	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	93.37	23.36
For Bolt-On, Add	20.76	
For Installation In New Panelboard, Deduct	-12.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	93.37	23.36
For Bolt-On, Add	20.76	
For Installation In New Panelboard, Deduct	-12.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	167.77	29.20
For Bolt-On, Add	32.33	
For Installation In New Panelboard, Deduct	-16.22	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	262.14	29.20
For Bolt-On, Add	44.12	
For Installation In New Panelboard, Deduct	-16.22	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	182.98	35.04
For Bolt-On, Add	36.50	
For Installation In New Panelboard, Deduct	-19.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	182.98	35.04
For Bolt-On, Add	36.50	
For Installation In New Panelboard, Deduct	-19.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	362.07	46.72
For Bolt-On, Add	63.43	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	493.68	58.40
For Bolt-On, Add	84.42	
For Installation In New Panelboard, Deduct	-32.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	727.12	64.89
For Bolt-On, Add	115.87	
For Installation In New Panelboard, Deduct	-35.69	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.83	
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	292.58	46.72
For Bolt-On, Add	54.74	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	292.58	46.72
For Bolt-On, Add	54.74	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	438.44	58.40
For Bolt-On, Add	77.52	
For Installation In New Panelboard, Deduct	-32.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 28 16 13-0035	EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	624.77		70.09
	For Bolt-On, Add	105.35		
	For Installation In New Panelboard, Deduct	-38.94		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73		
26 28 16 13-0036	EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	969.47		81.76
	For Bolt-On, Add	152.98		
	For Installation In New Panelboard, Deduct	-45.43		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.51		
26 28 16 13-0037	EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,119.29		87.61
	For Bolt-On, Add	173.98		
	For Installation In New Panelboard, Deduct	-48.67		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.40		
26 28 16 13-0038	EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,202.54		93.45
	For Bolt-On, Add	186.66		
	For Installation In New Panelboard, Deduct	-51.92		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.30		
26 28 16 13-0039	EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,423.86		99.29
	For Bolt-On, Add	216.59		
	For Installation In New Panelboard, Deduct	-55.16		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.19		
26 28 16 13-0040	Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)			
	Note: Includes connection of electrical wire.			
26 28 16 13-0041	EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	112.48		23.36
	For Bolt-On, Add	23.15		
	For Installation In New Panelboard, Deduct	-12.98		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58		
26 28 16 13-0042	EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	112.48		23.36
	For Bolt-On, Add	23.15		
	For Installation In New Panelboard, Deduct	-12.98		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58		
26 28 16 13-0043	EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	186.65		29.20
	For Bolt-On, Add	34.69		
	For Installation In New Panelboard, Deduct	-16.22		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47		
26 28 16 13-0044	EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	232.78		35.04
	For Bolt-On, Add	42.72		
	For Installation In New Panelboard, Deduct	-19.47		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36		
26 28 16 13-0045	EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	232.78		35.04
	For Bolt-On, Add	42.72		
	For Installation In New Panelboard, Deduct	-19.47		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36		
26 28 16 13-0046	EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	409.83		46.72
	For Bolt-On, Add	69.40		
	For Installation In New Panelboard, Deduct	-25.96		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15		
26 28 16 13-0047	EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,056.72		58.40
	For Bolt-On, Add	154.80		
	For Installation In New Panelboard, Deduct	-32.45		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94		
26 28 16 13-0048	EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	374.77		46.72
	For Bolt-On, Add	65.02		
	For Installation In New Panelboard, Deduct	-25.96		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15		
26 28 16 13-0049	EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	374.77		46.72
	For Bolt-On, Add	65.02		
	For Installation In New Panelboard, Deduct	-25.96		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15		
26 28 16 13-0050	EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	498.27		58.40
	For Bolt-On, Add	85.00		
	For Installation In New Panelboard, Deduct	-32.45		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94		
26 28 16 13-0051	EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,308.36		70.09
	For Bolt-On, Add	190.80		
	For Installation In New Panelboard, Deduct	-38.94		
	Note: Also for use with new interiors in panelboards.			
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0052			Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
			16 13-0001		
			Note: Includes connection of electrical wire.		
26 28 16 13-0053	EA		15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	128.71	23.36
			For Bolt-On, Add	25.17	
			For Installation In New Panelboard, Deduct	-12.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0054	EA		35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	128.71	23.36
			For Bolt-On, Add	25.17	
			For Installation In New Panelboard, Deduct	-12.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0055	EA		70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	151.54	29.20
			For Bolt-On, Add	30.30	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0056	EA		15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	259.97	29.20
			For Bolt-On, Add	43.85	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0057	EA		15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	275.12	35.04
			For Bolt-On, Add	48.02	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0058	EA		35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	275.12	35.04
			For Bolt-On, Add	48.02	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0059	EA		70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	333.13	46.72
			For Bolt-On, Add	59.81	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0060	EA		110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	481.32	58.40
			For Bolt-On, Add	82.88	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0061	EA		150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	623.92	64.89
			For Bolt-On, Add	102.97	
			For Installation In New Panelboard, Deduct	-35.69	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.83	
26 28 16 13-0062	EA		250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	779.50	75.93
			For Bolt-On, Add	126.97	
			For Installation In New Panelboard, Deduct	-42.18	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.62	
26 28 16 13-0063	EA		300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	840.32	87.61
			For Bolt-On, Add	139.11	
			For Installation In New Panelboard, Deduct	-48.67	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.40	
26 28 16 13-0064	EA		15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	333.84	46.72
			For Bolt-On, Add	59.90	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0065	EA		35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	333.84	46.72
			For Bolt-On, Add	59.90	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0066	EA		70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	391.15	58.40
			For Bolt-On, Add	71.61	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0067	EA		110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	596.74	70.09
			For Bolt-On, Add	101.85	
			For Installation In New Panelboard, Deduct	-38.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73	
26 28 16 13-0068	EA		150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	783.40	90.85
			For Bolt-On, Add	133.13	
			For Installation In New Panelboard, Deduct	-50.29	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.35	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0069	EA		250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	968.73	105.13
			For Bolt-On, Add	161.97	
			For Installation In New Panelboard, Deduct	-58.41	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.09	
26 28 16 13-0070	EA		300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	1,030.31	111.62
			For Bolt-On, Add	171.94	
			For Installation In New Panelboard, Deduct	-61.65	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.98	
26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)					
			Note: Includes connection of electrical wire.		
26 28 16 13-0072	EA		15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	285.69	35.04
			For Bolt-On, Add	49.34	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0073	EA		35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	285.69	35.04
			For Bolt-On, Add	49.34	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0074	EA		70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	435.38	46.72
			For Bolt-On, Add	72.59	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0075	EA		110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	709.81	58.40
			For Bolt-On, Add	111.44	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0076	EA		150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,108.36	72.69
			For Bolt-On, Add	166.94	
			For Installation In New Panelboard, Deduct	-40.56	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.67	
26 28 16 13-0077	EA		250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,257.36	75.93
			For Bolt-On, Add	186.70	
			For Installation In New Panelboard, Deduct	-42.18	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.62	
26 28 16 13-0078	EA		300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,373.20	87.61
			For Bolt-On, Add	205.72	
			For Installation In New Panelboard, Deduct	-48.67	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.40	
26 28 16 13-0079	EA		15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	411.12	46.72
			For Bolt-On, Add	69.56	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0080	EA		35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	411.12	46.72
			For Bolt-On, Add	69.56	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0081	EA		70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	517.94	58.40
			For Bolt-On, Add	87.46	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0082	EA		110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	883.39	70.09
			For Bolt-On, Add	137.68	
			For Installation In New Panelboard, Deduct	-38.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73	
26 28 16 13-0083	EA		150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,292.85	90.85
			For Bolt-On, Add	196.81	
			For Installation In New Panelboard, Deduct	-50.29	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.35	
26 28 16 13-0084	EA		250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,527.41	105.13
			For Bolt-On, Add	231.81	
			For Installation In New Panelboard, Deduct	-58.41	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.09	
26 28 16 13-0085	EA		300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,652.94	111.62
			For Bolt-On, Add	249.77	
			For Installation In New Panelboard, Deduct	-61.65	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.98	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0086 Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On ^(26 28) 16 13-0001 Note: Includes connection of electrical wire.		
26 28 16 13-0087 EA 2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	296.21	35.04
For Bolt-On, Add	50.65	
For Installation In New Panelboard, Deduct	-19.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0088 EA 2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	296.21	35.04
For Bolt-On, Add	50.65	
For Installation In New Panelboard, Deduct	-19.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0089 EA 2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	532.41	46.72
For Bolt-On, Add	84.72	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0090 EA 2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	978.87	58.40
For Bolt-On, Add	145.07	
For Installation In New Panelboard, Deduct	-32.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0091 EA 2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,553.12	72.69
For Bolt-On, Add	222.53	
For Installation In New Panelboard, Deduct	-40.56	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.67	
26 28 16 13-0092 EA 2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,768.89	75.93
For Bolt-On, Add	250.64	
For Installation In New Panelboard, Deduct	-42.18	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.62	
26 28 16 13-0093 EA 2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,925.19	87.61
For Bolt-On, Add	274.72	
For Installation In New Panelboard, Deduct	-48.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.40	
26 28 16 13-0094 EA 3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	483.90	46.72
For Bolt-On, Add	78.66	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0095 EA 3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	483.90	46.72
For Bolt-On, Add	78.66	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0096 EA 3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	644.09	58.40
For Bolt-On, Add	103.22	
For Installation In New Panelboard, Deduct	-32.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0097 EA 3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,190.82	70.09
For Bolt-On, Add	176.11	
For Installation In New Panelboard, Deduct	-38.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73	
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,504.19	90.85
For Bolt-On, Add	223.23	
For Installation In New Panelboard, Deduct	-50.29	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.35	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,405.67	105.13
For Bolt-On, Add	341.59	
For Installation In New Panelboard, Deduct	-58.41	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.09	
26 28 16 13-0100 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,562.27	111.62
For Bolt-On, Add	363.44	
For Installation In New Panelboard, Deduct	-61.65	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.98	
26 28 16 13-0101 Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On ^(26 28) 16 13-0001 Note: Includes connection of electrical wire.		
26 28 16 13-0102 EA 1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	155.20	23.36
For Bolt-On, Add	28.49	
For Installation In New Panelboard, Deduct	-12.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0103	EA		1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	155.20	23.36
			For Bolt-On, Add	28.49	
			For Installation In New Panelboard, Deduct	-12.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0104	EA		1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	270.17	29.20
			For Bolt-On, Add	45.13	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0105	EA		2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	339.25	35.04
			For Bolt-On, Add	56.03	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0106	EA		2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	339.25	35.04
			For Bolt-On, Add	56.03	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0107	EA		2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	621.48	46.72
			For Bolt-On, Add	95.86	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0108	EA		2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,156.78	58.40
			For Bolt-On, Add	167.31	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0109	EA		2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	2,255.80	72.69
			For Bolt-On, Add	310.37	
			For Installation In New Panelboard, Deduct	-40.56	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.67	
26 28 16 13-0110	EA		3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	561.56	46.72
			For Bolt-On, Add	88.37	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0111	EA		3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	561.56	46.72
			For Bolt-On, Add	88.37	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0112	EA		3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	751.99	58.40
			For Bolt-On, Add	116.71	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0113	EA		3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,425.33	70.09
			For Bolt-On, Add	205.42	
			For Installation In New Panelboard, Deduct	-38.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73	
26 28 16 13-0114	EA		3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	2,804.74	90.85
			For Bolt-On, Add	385.80	
			For Installation In New Panelboard, Deduct	-50.29	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.35	
26 28 16 13-0115			Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
			Note: Includes connection of electrical wire.		
26 28 16 13-0116	EA		15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	229.82	23.36
			For Bolt-On, Add	37.81	
			For Installation In New Panelboard, Deduct	-12.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0117	EA		35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	229.82	23.36
			For Bolt-On, Add	37.81	
			For Installation In New Panelboard, Deduct	-12.98	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0118	EA		70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	349.53	29.20
			For Bolt-On, Add	55.05	
			For Installation In New Panelboard, Deduct	-16.22	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.47	
26 28 16 13-0119	EA		15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	425.59	35.04
			For Bolt-On, Add	66.83	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	425.59	35.04
For Bolt-On, Add	66.83	
For Installation In New Panelboard, Deduct	-19.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	807.36	46.72
For Bolt-On, Add	119.09	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,472.15	58.40
For Bolt-On, Add	206.73	
For Installation In New Panelboard, Deduct	-32.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,948.79	64.89
For Bolt-On, Add	393.58	
For Installation In New Panelboard, Deduct	-35.69	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.83	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	734.58	46.72
For Bolt-On, Add	109.99	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	734.58	46.72
For Bolt-On, Add	109.99	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,019.31	58.40
For Bolt-On, Add	150.13	
For Installation In New Panelboard, Deduct	-32.45	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,659.84	70.09
For Bolt-On, Add	234.74	
For Installation In New Panelboard, Deduct	-38.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	3,718.80	90.85
For Bolt-On, Add	500.05	
For Installation In New Panelboard, Deduct	-50.29	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.35	
26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^(26 28 16 13-0001)		
Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	101.01	23.36
For Bolt-On, Add	21.71	
For Installation In New Panelboard, Deduct	-12.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	216.21	35.04
For Bolt-On, Add	40.65	
For Installation In New Panelboard, Deduct	-19.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	344.81	46.72
For Bolt-On, Add	61.27	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	217.03	23.36
For Bolt-On, Add	36.21	
For Installation In New Panelboard, Deduct	-12.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	217.03	23.36
For Bolt-On, Add	36.21	
For Installation In New Panelboard, Deduct	-12.98	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.58	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	432.14	46.72
For Bolt-On, Add	72.19	
For Installation In New Panelboard, Deduct	-25.96	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	496.71	35.04
For Bolt-On, Add	75.72	
For Installation In New Panelboard, Deduct	-19.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	



Electrical			26	26
Low-Voltage Electrical Distribution			26 20	
Low-Voltage Circuit Protective Devices			26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0137	EA		35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	496.71	35.04
			For Bolt-On, Add	75.72	
			For Installation In New Panelboard, Deduct	-19.47	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.36	
26 28 16 13-0138	EA		70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	967.65	46.72
			For Bolt-On, Add	139.13	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0139	EA		110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,650.05	58.40
			For Bolt-On, Add	228.97	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0140	EA		150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	3,652.57	72.69
			For Bolt-On, Add	484.96	
			For Installation In New Panelboard, Deduct	-40.56	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.67	
26 28 16 13-0141	EA		15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	836.32	46.72
			For Bolt-On, Add	122.71	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0142	EA		35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	836.32	46.72
			For Bolt-On, Add	122.71	
			For Installation In New Panelboard, Deduct	-25.96	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.15	
26 28 16 13-0143	EA		70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,167.01	58.40
			For Bolt-On, Add	168.59	
			For Installation In New Panelboard, Deduct	-32.45	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.94	
26 28 16 13-0144	EA		110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,789.22	70.09
			For Bolt-On, Add	250.91	
			For Installation In New Panelboard, Deduct	-38.94	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.73	
26 28 16 13-0145	EA		150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	4,541.93	90.85
			For Bolt-On, Add	602.95	
			For Installation In New Panelboard, Deduct	-50.29	
			Note: Also for use with new interiors in panelboards.		
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.35	
26 28 16 16 Enclosed Switches (26 28 16)					
26 28 16 16-0001			Motor And Circuit Disconnects (26 28 16 16)		
			Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 16-0002			NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)		
26 28 16 16-0003			Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)		
			Note: Includes fuses and neutral bar.		
26 28 16 16-0004			240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0005	EA		30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	484.20	129.79
26 28 16 16-0006	EA		60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	762.05	156.39
26 28 16 16-0007	EA		100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,048.10	183.01
26 28 16 16-0008	EA		200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,805.93	288.13
26 28 16 16-0009	EA		400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,844.04	447.78
26 28 16 16-0010	EA		600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,421.12	661.93
26 28 16 16-0011	EA		800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,762.45	778.74
26 28 16 16-0012	EA		1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,767.61	908.53
26 28 16 16-0013			600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0014	EA		30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	738.08	144.20
26 28 16 16-0015	EA		60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	890.53	173.79

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0016	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,417.85	203.12
26 28 16 16-0017	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,095.89	320.58
26 28 16 16-0018	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,577.73	497.36
26 28 16 16-0019	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,137.05	735.14
26 28 16 16-0020	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,559.01	864.80
26 28 16 16-0021	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,429.58	1,009.51
26 28 16 16-0022		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0023	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	688.40	203.77
26 28 16 16-0024	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,015.06	270.62
26 28 16 16-0025	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,368.08	300.46
26 28 16 16-0026	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,164.24	470.49
26 28 16 16-0027	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,499.81	772.25
26 28 16 16-0028	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,322.65	1,081.80
26 28 16 16-0029		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0030	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	900.33	225.19
26 28 16 16-0031	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,144.00	300.46
26 28 16 16-0032	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,687.73	338.11
26 28 16 16-0033	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,484.71	515.27
26 28 16 16-0034	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,540.30	831.96
26 28 16 16-0035	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,918.23	1,201.86
26 28 16 16-0036	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,200.82	1,427.69
26 28 16 16-0037	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	18,156.80	1,622.38
26 28 16 16-0038		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0039	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	666.83	203.77
26 28 16 16-0040	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	987.18	270.62
26 28 16 16-0041	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,317.36	300.46
26 28 16 16-0042	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,233.99	470.49
26 28 16 16-0043	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,892.92	772.25
26 28 16 16-0044	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,914.05	1,081.80
26 28 16 16-0045	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	13,107.31	1,362.80
26 28 16 16-0046	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	16,164.25	1,557.48
26 28 16 16-0047		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)		
26 28 16 16-0048	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	979.49	225.19
26 28 16 16-0049	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,241.27	300.46
26 28 16 16-0050	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,829.96	338.11
26 28 16 16-0051	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,697.63	515.27
26 28 16 16-0052	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,994.56	831.96



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0053	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,720.51	1,201.86	
26 28 16 16-0054	EA	800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	15,532.80	1,427.69	
26 28 16 16-0055	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	19,595.62	1,622.38	
26 28 16 16-0056		Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches			
26 28 16 16-0057		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)			
26 28 16 16-0058	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	470.55	187.81	
26 28 16 16-0059	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	731.28	261.27	
26 28 16 16-0060	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,008.50	300.46	
26 28 16 16-0061	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,579.78	480.75	
26 28 16 16-0062	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,189.20	801.20	
26 28 16 16-0063	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,216.91	1,092.57	
26 28 16 16-0064	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,455.98	1,297.91	
26 28 16 16-0065	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,847.70	1,514.78	
26 28 16 16-0066		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)			
26 28 16 16-0067	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	519.76	207.27	
26 28 16 16-0068	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	828.18	293.20	
26 28 16 16-0069	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,139.93	333.82	
26 28 16 16-0070	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,769.23	522.54	
26 28 16 16-0071	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,431.36	858.44	
26 28 16 16-0072	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,770.08	1,201.73	
26 28 16 16-0073	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,270.20	1,297.91	
26 28 16 16-0074	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,962.75	1,514.78	
26 28 16 16-0075		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)			
26 28 16 16-0076	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	548.97	168.73	
26 28 16 16-0077	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	840.37	234.92	
26 28 16 16-0078	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,133.93	270.62	
26 28 16 16-0079	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,781.50	432.85	
26 28 16 16-0080	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,567.52	720.98	
26 28 16 16-0081	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,751.98	983.16	
26 28 16 16-0082	EA	800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,900.93	1,168.12	
26 28 16 16-0083	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,902.82	1,362.80	
26 28 16 16-0084		480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)			
26 28 16 16-0085	EA	30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	598.92	186.25	
26 28 16 16-0086	EA	60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	924.13	264.13	
26 28 16 16-0087	EA	100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,236.38	300.46	
26 28 16 16-0088	EA	200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,922.18	470.49	
26 28 16 16-0089	EA	400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,822.32	772.25	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0090 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,219.03	1,081.80
26 28 16 16-0091 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,439.58	1,168.12
26 28 16 16-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	639.08	186.51
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	992.62	263.87
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,347.78	300.46
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,093.76	470.23
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,062.33	772.51
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,929.34	1,081.55
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	11,250.50	1,168.12
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	14,719.57	1,362.80
26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	934.75	168.98
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,129.70	235.18
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,730.68	270.36
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,597.66	432.59
26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,012.35	186.25
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,234.16	264.13
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,875.78	300.46
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,796.66	470.49
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0056)		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,124.15	186.51
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,357.47	263.87
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,097.52	300.46
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,119.68	470.23
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002) Note: Includes fuses and neutral bar.		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	336.32	112.92
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	458.17	135.89
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	704.07	158.86
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,302.64	250.63
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,095.35	388.72
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,786.56	575.36



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 28 16 16-0124	240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)				
26 28 16 16-0125	EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	465.05		177.42	
26 28 16 16-0126	EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	656.26		235.18	
26 28 16 16-0127	EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	908.85		261.27	
26 28 16 16-0128	EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,620.62		408.97	
26 28 16 16-0129	EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,664.40		671.80	
26 28 16 16-0130	EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,522.65		940.46	
26 28 16 16-0131	240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0116)				
26 28 16 16-0132	EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	517.21		177.42	
26 28 16 16-0133	EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	740.36		235.18	
26 28 16 16-0134	EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	985.37		261.27	
26 28 16 16-0135	EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,813.42		408.97	
26 28 16 16-0136	EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,993.94		671.80	
26 28 16 16-0137	EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,731.54		940.46	
26 28 16 16-0138	General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)				
26 28 16 16-0139	240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0138)				
26 28 16 16-0140	EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	459.58		157.05	
26 28 16 16-0141	EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	611.29		180.54	
26 28 16 16-0142	EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,378.96		288.52	
26 28 16 16-0143	EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,955.48		480.23	
26 28 16 16-0144	EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,113.82		654.41	
26 28 16 16-0145	240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0138)				
26 28 16 16-0146	EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	434.14		146.92	
26 28 16 16-0147	EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	594.92		204.42	
26 28 16 16-0148	EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	903.80		235.18	
26 28 16 16-0149	EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,555.18		376.27	
26 28 16 16-0150	EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,250.27		627.15	
26 28 16 16-0151	EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,517.00		854.80	
26 28 16 16-0152	NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0001)				
26 28 16 16-0153	Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152)				
	Note: With fuses, neutral bar, and hub if required.				
26 28 16 16-0154	240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0153)				
26 28 16 16-0155	EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	710.54		152.50	
26 28 16 16-0156	EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,129.46		183.01	
26 28 16 16-0157	EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,411.40		212.86	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0158 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,066.15	324.47
26 28 16 16-0159 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,562.56	519.16
26 28 16 16-0160 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,993.18	692.43
26 28 16 16-0161 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,980.34	778.74
26 28 16 16-0162 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	15,873.31	908.53
26 28 16 16-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 16-0153)		
26 28 16 16-0164 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,222.00	203.25
26 28 16 16-0165 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,455.25	249.20
26 28 16 16-0166 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,064.51	286.19
26 28 16 16-0167 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,909.15	429.22
26 28 16 16-0168 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,327.33	702.29
26 28 16 16-0169 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,630.99	965.77
26 28 16 16-0170 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,095.89	1,112.04
26 28 16 16-0171 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,833.20	1,251.83
26 28 16 16-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 16-0153)		
26 28 16 16-0173 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	907.11	240.11
26 28 16 16-0174 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,438.91	317.98
26 28 16 16-0175 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,733.74	349.14
26 28 16 16-0176 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,571.09	540.57
26 28 16 16-0177 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,556.25	901.39
26 28 16 16-0178 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,263.99	1,201.86
26 28 16 16-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 16-0153)		
26 28 16 16-0180 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,387.17	284.63
26 28 16 16-0181 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,655.23	348.88
26 28 16 16-0182 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,215.11	400.53
26 28 16 16-0183 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,218.06	600.93
26 28 16 16-0184 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,772.66	983.29
26 28 16 16-0185 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,227.45	1,352.03
26 28 16 16-0186 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,303.82	1,557.48
26 28 16 16-0187 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	20,711.82	1,752.18
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26		
28 16 16-0153)		
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	995.56	240.11
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,441.48	317.98
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,858.11	349.14
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,654.04	540.57



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0193	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,632.34	901.39
26 28 16 16-0194	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,100.94	1,201.86
26 28 16 16-0195	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,850.21	1,362.80
26 28 16 16-0196	EA	1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	21,002.13	1,557.48
26 28 16 16-0197		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0198	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,437.92	284.89
26 28 16 16-0199	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,712.29	349.14
26 28 16 16-0200	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,341.92	400.40
26 28 16 16-0201	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,300.49	600.93
26 28 16 16-0202	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,070.66	983.16
26 28 16 16-0203	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,569.84	1,351.77
26 28 16 16-0204	EA	800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,381.96	1,557.48
26 28 16 16-0205	EA	1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	22,132.95	1,752.18
26 28 16 16-0206		Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	674.45	133.55
26 28 16 16-0209	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,100.96	184.95
26 28 16 16-0210	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,447.28	212.08
26 28 16 16-0211	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,926.16	343.42
26 28 16 16-0212	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,286.79	572.89
26 28 16 16-0213	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,815.07	763.82
26 28 16 16-0214	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,570.60	908.92
26 28 16 16-0215	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	16,593.53	1,038.72
26 28 16 16-0216		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0217	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	759.33	147.19
26 28 16 16-0218	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,247.64	205.98
26 28 16 16-0219	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,634.18	232.58
26 28 16 16-0220	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,137.58	360.56
26 28 16 16-0221	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,864.70	600.93
26 28 16 16-0222	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,437.46	801.20
26 28 16 16-0223	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,406.06	952.14
26 28 16 16-0224	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,690.03	1,081.55
26 28 16 16-0225		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0226	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	807.98	200.27
26 28 16 16-0227	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,285.85	277.36
26 28 16 16-0228	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,659.36	318.11

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0229 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,269.51	515.14
26 28 16 16-0230 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,923.36	859.21
26 28 16 16-0231 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	8,703.64	1,145.40
26 28 16 16-0232 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,618.83	1,362.80
26 28 16 16-0233 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	18,028.64	1,557.48
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	877.96	220.64
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,401.46	309.03
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,794.01	348.88
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,409.55	540.83
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,236.29	901.26
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,273.68	1,201.73
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,526.45	1,427.69
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,221.56	1,622.38
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0206)		
26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	474.48	220.64
26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,453.65	309.03
26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,866.78	348.88
26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,498.11	540.83
26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	5,465.58	901.26
26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	9,238.64	1,201.73
26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	14,506.82	1,427.69
26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,194.85	1,622.38
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0152)		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0252)		
26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	434.98	132.65
26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	613.51	159.12
26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	806.69	185.08
26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,653.51	282.16
26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	4,042.65	451.41
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,163.96	602.22
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches (26 28 16 16-0252)		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	588.40	209.09
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	848.93	276.59
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,042.89	303.45



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0264	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,030.80	470.23
26 28 16 16-0265	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,709.61	783.68
26 28 16 16-0266	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,059.98	1,045.34
26 28 16 16-0267		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0252)		
26 28 16 16-0268	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	661.51	208.97
26 28 16 16-0269	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	922.27	276.59
26 28 16 16-0270	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,278.94	303.45
26 28 16 16-0271	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,183.24	470.23
26 28 16 16-0272	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,807.54	783.81
26 28 16 16-0273	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,824.33	1,045.34
26 28 16 16-0274	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,607.89	1,184.21
26 28 16 16-0275		General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0276		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0277	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	392.48	116.16
26 28 16 16-0278	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	642.08	160.81
26 28 16 16-0279	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	675.03	184.43
26 28 16 16-0280	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,686.96	298.51
26 28 16 16-0281	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,136.91	498.13
26 28 16 16-0282	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,291.20	664.14
26 28 16 16-0283		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0284	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	614.27	174.18
26 28 16 16-0285	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	884.19	241.15
26 28 16 16-0286	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,293.99	276.59
26 28 16 16-0287	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,224.16	447.91
26 28 16 16-0288		NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0001)		
26 28 16 16-0289		Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0288) Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290		240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0289)		
26 28 16 16-0291	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	1,884.89	129.79
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,264.24	156.39
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,618.44	182.75
26 28 16 16-0294	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	6,388.09	288.39
26 28 16 16-0295	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	12,985.96	447.52
26 28 16 16-0296	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	18,666.44	661.67
26 28 16 16-0297		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0289)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0298	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,391.84	144.20
26 28 16 16-0299	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,659.92	173.66
26 28 16 16-0300	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,993.49	202.99
26 28 16 16-0301	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,057.46	320.58
26 28 16 16-0302	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,486.22	497.62
26 28 16 16-0303	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	19,337.45	735.14
26 28 16 16-0304		240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0305	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,118.48	204.03
26 28 16 16-0306	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,655.36	270.36
26 28 16 16-0307	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,064.21	300.46
26 28 16 16-0308	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,199.20	470.23
26 28 16 16-0309	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,036.02	772.51
26 28 16 16-0310	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,030.42	1,081.55
26 28 16 16-0311		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0312	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,560.65	225.32
26 28 16 16-0313	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,920.60	300.46
26 28 16 16-0314	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,277.68	337.98
26 28 16 16-0315	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,466.29	515.00
26 28 16 16-0316	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,495.85	831.96
26 28 16 16-0317	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,627.10	1,201.73
26 28 16 16-0318		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0319	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,532.04	204.03
26 28 16 16-0320	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,172.37	270.36
26 28 16 16-0321	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,098.73	300.46
26 28 16 16-0322	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,613.86	470.23
26 28 16 16-0323	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,820.26	772.51
26 28 16 16-0324	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	23,856.64	1,081.55
26 28 16 16-0325		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		
26 28 16 16-0326	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,049.33	225.32
26 28 16 16-0327	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,474.75	300.46
26 28 16 16-0328	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,333.66	337.98
26 28 16 16-0329	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,892.78	515.00
26 28 16 16-0330	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,317.65	831.96
26 28 16 16-0331	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	24,505.48	1,201.73
26 28 16 16-0332		Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0289)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0333		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0334	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,808.57	129.79
26 28 16 16-0335	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,201.66	180.54
26 28 16 16-0336	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,142.70	207.66
26 28 16 16-0337	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,748.39	331.75
26 28 16 16-0338	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,464.60	552.39
26 28 16 16-0339	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	14,987.31	752.53
26 28 16 16-0340		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0341	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,056.72	143.16
26 28 16 16-0342	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,508.25	202.48
26 28 16 16-0343	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,721.30	230.76
26 28 16 16-0344	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,532.46	360.56
26 28 16 16-0345	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,883.74	593.40
26 28 16 16-0346	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,069.79	830.66
26 28 16 16-0347		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0348	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,886.99	168.98
26 28 16 16-0349	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,281.48	235.18
26 28 16 16-0350	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,381.28	270.36
26 28 16 16-0351	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,592.61	432.59
26 28 16 16-0352	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,526.96	721.11
26 28 16 16-0353	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,892.81	983.29
26 28 16 16-0354		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0355	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,143.24	186.51
26 28 16 16-0356	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,631.02	263.87
26 28 16 16-0357	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,860.69	300.46
26 28 16 16-0358	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,751.75	470.23
26 28 16 16-0359	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,478.45	772.51
26 28 16 16-0360	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,078.94	1,081.55
26 28 16 16-0361		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0362	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,594.02	168.98
26 28 16 16-0363	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,110.78	235.18
26 28 16 16-0364	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,997.19	270.36
26 28 16 16-0365	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,674.39	432.59

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0366		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0332)		
26 28 16 16-0367	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,951.27	186.51
26 28 16 16-0368	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,545.34	263.87
26 28 16 16-0369	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,979.62	300.46
26 28 16 16-0370	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,150.93	470.23
26 28 16 16-0371		Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)		
26 28 16 16-0372		600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0371)		
26 28 16 16-0373	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,432.26	225.19
26 28 16 16-0374	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,912.83	300.46
26 28 16 16-0375	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,030.86	338.11
26 28 16 16-0376	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,152.44	515.27
26 28 16 16-0377		600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0371)		
26 28 16 16-0378	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,213.77	186.25
26 28 16 16-0379	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,684.82	264.13
26 28 16 16-0380	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,646.30	300.46
26 28 16 16-0381	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,034.99	470.49
26 28 16 16-0382		Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0288)		
26 28 16 16-0383		600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0382)		
26 28 16 16-0384	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,924.31	225.19
26 28 16 16-0385	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,463.43	300.46
26 28 16 16-0386	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,072.12	338.11
26 28 16 16-0387		600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0382)		
26 28 16 16-0388	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,679.33	186.25
26 28 16 16-0389	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,206.15	264.13
26 28 16 16-0390	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,645.74	300.46
26 28 16 16-0391		NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 16-0001)		
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.				
26 28 16 16-0392		Heavy-Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches (26 28 16 16-0391)		
Note: With fuses and neutral bar.				
26 28 16 16-0393	EA	30 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,104.61	259.58
26 28 16 16-0394	EA	60 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,505.90	309.03
26 28 16 16-0395	EA	100 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,888.04	348.88
26 28 16 16-0396	EA	200 Amperes, 240 Volt, 3 Phase, Heavy-Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	8,248.29	540.83
26 28 16 16-0397		Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0391)		
26 28 16 16-0398	EA	60 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,412.59	309.03
26 28 16 16-0399	EA	100 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	2,823.29	348.88
26 28 16 16-0400	EA	200 Amperes, 240 Volt, 3 Phase, Heavy-Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	5,189.23	540.83



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0401	NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)			
26 28 16 16-0402	Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0401) Note: With fuses and neutral bar.			
26 28 16 16-0403	240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0404	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	688.83	129.79
26 28 16 16-0405	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	899.40	156.39
26 28 16 16-0406	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,226.95	183.01
26 28 16 16-0407	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,069.23	288.13
26 28 16 16-0408	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,414.10	447.78
26 28 16 16-0409	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,968.19	661.93
26 28 16 16-0410	600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0411	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,080.99	144.07
26 28 16 16-0412	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,114.84	173.92
26 28 16 16-0413	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,605.38	203.12
26 28 16 16-0414	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,511.71	320.58
26 28 16 16-0415	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,478.08	497.10
26 28 16 16-0416	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,834.16	735.27
26 28 16 16-0417	240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0418	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	957.58	203.77
26 28 16 16-0419	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,326.34	270.62
26 28 16 16-0420	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,809.95	300.46
26 28 16 16-0421	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,690.43	470.49
26 28 16 16-0422	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,279.69	772.25
26 28 16 16-0423	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,474.60	1,081.80
26 28 16 16-0424	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0425	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,274.95	225.19
26 28 16 16-0426	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,444.17	300.46
26 28 16 16-0427	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,127.96	338.11
26 28 16 16-0428	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,097.10	515.27
26 28 16 16-0429	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,489.13	831.96
26 28 16 16-0430	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	12,206.01	1,201.86
26 28 16 16-0431	240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0432	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,023.19	203.77
26 28 16 16-0433	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,371.41	270.62
26 28 16 16-0434	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,951.42	300.46
26 28 16 16-0435	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,868.05	470.49

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0436	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,755.25	772.25	
26 28 16 16-0437	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,795.88	1,081.80	
26 28 16 16-0438		600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0402)			
26 28 16 16-0439	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,351.02	225.19	
26 28 16 16-0440	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,647.08	300.46	
26 28 16 16-0441	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,267.48	338.11	
26 28 16 16-0442	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,363.39	515.27	
26 28 16 16-0443	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,920.28	831.96	
26 28 16 16-0444	EA	600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy-Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	12,561.07	1,201.86	
26 28 16 16-0445		Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0401)			
26 28 16 16-0446		240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0447	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	720.76	187.55	
26 28 16 16-0448	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	955.82	261.53	
26 28 16 16-0449	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,267.41	300.46	
26 28 16 16-0450	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,807.56	480.87	
26 28 16 16-0451	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,975.54	801.45	
26 28 16 16-0452	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,295.54	1,092.83	
26 28 16 16-0453		600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0454	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	803.39	207.01	
26 28 16 16-0455	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,062.31	293.33	
26 28 16 16-0456	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,412.58	333.56	
26 28 16 16-0457	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,963.95	522.41	
26 28 16 16-0458	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,209.47	858.57	
26 28 16 16-0459	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,955.76	1,201.86	
26 28 16 16-0460		240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0461	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	928.24	168.73	
26 28 16 16-0462	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,220.95	234.92	
26 28 16 16-0463	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,626.72	270.62	
26 28 16 16-0464	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,320.81	432.85	
26 28 16 16-0465	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,893.30	720.98	
26 28 16 16-0466	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,725.65	983.16	
26 28 16 16-0467		600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0468	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	908.11	186.25	
26 28 16 16-0469	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,320.17	264.13	
26 28 16 16-0470	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,742.18	300.46	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0471	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		2,291.05	470.49
26 28 16 16-0472	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		4,911.96	772.25
26 28 16 16-0473	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		9,201.19	1,081.80
26 28 16 16-0474		240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0475	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		1,115.94	168.73
26 28 16 16-0476	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		1,327.70	234.92
26 28 16 16-0477	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		2,064.02	270.62
26 28 16 16-0478	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		3,272.90	432.85
26 28 16 16-0479	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		5,925.66	551.61
26 28 16 16-0480		600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)			
26 28 16 16-0481	EA	30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		1,159.20	186.25
26 28 16 16-0482	EA	60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		1,446.99	264.13
26 28 16 16-0483	EA	100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		2,205.04	300.46
26 28 16 16-0484	EA	200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		3,362.59	470.49
26 28 16 16-0485	EA	400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy-Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....		6,300.77	726.83
26 28 16 16-0486		Double Throw Safety Switches (26 28 16 16-0001)			
26 28 16 16-0487		NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)			
26 28 16 16-0488		240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)			
26 28 16 16-0489	EA	30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		864.68	166.78
26 28 16 16-0490	EA	60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		1,277.22	218.05
26 28 16 16-0491	EA	100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		1,791.39	284.89
26 28 16 16-0492	EA	200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		2,388.78	370.55
26 28 16 16-0493	EA	400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		5,761.87	463.35
26 28 16 16-0494	EA	600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		10,482.10	743.05
26 28 16 16-0495		240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)			
26 28 16 16-0496	EA	30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		1,091.24	233.62
26 28 16 16-0497	EA	60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		1,523.14	305.00
26 28 16 16-0498	EA	100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		2,292.47	399.11
26 28 16 16-0499	EA	200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		3,366.07	519.16
26 28 16 16-0500	EA	400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		7,939.82	648.95
26 28 16 16-0501	EA	600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		11,079.92	1,038.33
26 28 16 16-0502		240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)			
26 28 16 16-0503	EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		1,449.86	292.02
26 28 16 16-0504	EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		2,109.17	381.58
26 28 16 16-0505	EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		3,742.32	498.39
26 28 16 16-0506	EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		5,126.16	647.66
26 28 16 16-0507	EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		10,329.01	811.19
26 28 16 16-0508	EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		13,069.36	1,299.85
26 28 16 16-0509		600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)			
26 28 16 16-0510	EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		1,474.98	218.05
26 28 16 16-0511	EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		2,217.78	284.89
26 28 16 16-0512	EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		3,268.96	370.55
26 28 16 16-0513	EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		7,707.74	463.35
26 28 16 16-0514	EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch		11,393.26	743.05

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0515		600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0516	EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,648.71	305.00
26 28 16 16-0517	EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,445.55	399.11
26 28 16 16-0518	EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,564.94	519.16
26 28 16 16-0519	EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,078.64	648.95
26 28 16 16-0520	EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,985.65	1,038.33
26 28 16 16-0521		600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0522	EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,232.93	381.58
26 28 16 16-0523	EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,921.39	498.39
26 28 16 16-0524	EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,495.97	647.66
26 28 16 16-0525	EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,117.38	811.19
26 28 16 16-0526	EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	13,952.33	1,299.85
26 28 16 16-0527		NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0528		240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0529	EA	100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,239.71	284.89
26 28 16 16-0530	EA	200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,140.50	370.55
26 28 16 16-0531	EA	400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	16,846.82	463.35
26 28 16 16-0532	EA	600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	29,016.27	743.05
26 28 16 16-0533		240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0534	EA	100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,935.36	398.45
26 28 16 16-0535	EA	200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,740.82	518.52
26 28 16 16-0536	EA	400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	17,367.73	648.95
26 28 16 16-0537	EA	600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	18,870.05	1,040.27
26 28 16 16-0538		240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0539	EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,830.39	292.15
26 28 16 16-0540	EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,509.57	381.32
26 28 16 16-0541	EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,921.83	498.26
26 28 16 16-0542	EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,118.51	647.92
26 28 16 16-0543	EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	12,090.93	811.19
26 28 16 16-0544	EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,099.96	1,299.99
26 28 16 16-0545		600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0546	EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	1,899.87	218.05
26 28 16 16-0547	EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,892.32	284.89
26 28 16 16-0548	EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,267.20	370.55
26 28 16 16-0549	EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	10,138.24	463.35
26 28 16 16-0550	EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	13,546.77	743.05
26 28 16 16-0551		600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0552	EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,151.49	305.00
26 28 16 16-0553	EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,242.61	398.45
26 28 16 16-0554	EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	5,801.35	518.52
26 28 16 16-0555	EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	10,993.99	648.95
26 28 16 16-0556	EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,773.13	1,040.27
26 28 16 16-0557		600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0527)		
26 28 16 16-0558	EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,538.24	381.32
26 28 16 16-0559	EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,934.98	498.26
26 28 16 16-0560	EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,301.08	647.92
26 28 16 16-0561	EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	12,069.37	811.19
26 28 16 16-0562	EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	14,218.78	1,299.99
26 28 16 16-0563		NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0564		240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Circuit Protective Devices		26 28	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0565	EA	30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,265.99	166.91
26 28 16 16-0566	EA	60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,566.39	217.91
26 28 16 16-0567	EA	100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,903.42	284.76
26 28 16 16-0568	EA	200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,991.69	370.30
26 28 16 16-0569	EA	400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,461.36	463.49
26 28 16 16-0570	EA	600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,941.30	742.79
26 28 16 16-0571		240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		
26 28 16 16-0572	EA	30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,603.41	233.62
26 28 16 16-0573	EA	60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,079.00	305.00
26 28 16 16-0574	EA	100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,653.40	398.45
26 28 16 16-0575	EA	200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,094.17	518.52
26 28 16 16-0576	EA	400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,288.90	648.95
26 28 16 16-0577	EA	600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	12,271.97	1,040.27
26 28 16 16-0578		240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		
26 28 16 16-0579	EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,890.39	292.15
26 28 16 16-0580	EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,551.24	381.32
26 28 16 16-0581	EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,240.22	498.26
26 28 16 16-0582	EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,477.38	647.92
26 28 16 16-0583	EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	15,698.39	811.19
26 28 16 16-0584	EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	19,501.16	1,299.99
26 28 16 16-0585		600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		
26 28 16 16-0586	EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,386.69	217.91
26 28 16 16-0587	EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,560.53	284.76
26 28 16 16-0588	EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,752.81	370.30
26 28 16 16-0589	EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,745.73	463.49
26 28 16 16-0590	EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,084.32	742.79
26 28 16 16-0591		600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		
26 28 16 16-0592	EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,716.30	305.00
26 28 16 16-0593	EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,945.87	398.45
26 28 16 16-0594	EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,364.91	518.52
26 28 16 16-0595	EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,580.45	648.95
26 28 16 16-0596	EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	14,285.85	1,040.27
26 28 16 16-0597		600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0563)		
26 28 16 16-0598	EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,597.97	381.32
26 28 16 16-0599	EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,584.95	498.26
26 28 16 16-0600	EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,680.57	647.92
26 28 16 16-0601	EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	16,135.74	811.19
26 28 16 16-0602	EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	20,080.87	1,299.99
26 28 16 16-0603		Removal And Reinstallation Of Disconnect (Safety) Switches (26 28 16 16-0001) Note: Includes storage and cleaning.		
26 28 16 16-0604	EA	Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch	648.95	
26 28 16 16-0605	EA	Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	843.67	
26 28 16 16-0606	EA	Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	941.05	
26 28 16 16-0607	EA	Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,103.29	
26 28 16 16-0608		Bolted Contact Switches (26 28 16 16) Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0609		Electrical Trip, Bolted Contact Switches (26 28 16 16-0608)		
26 28 16 16-0610		Top Feed, Electrical Trip, Bolted Contact Switches (26 28 16 16-0609)		
26 28 16 16-0611	EA	800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480)	10,489.11	1,297.91
26 28 16 16-0612	EA	1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480)	11,346.94	1,557.48
26 28 16 16-0613	EA	1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480)	12,341.51	1,817.07
26 28 16 16-0614	EA	2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480)	13,023.50	2,076.65
26 28 16 16-0615	EA	2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480)	14,708.42	2,336.22
26 28 16 16-0616	EA	3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480)	18,464.35	2,595.81
26 28 16 16-0617	EA	4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480)	24,908.15	3,114.98

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0618 Bottom Feed, Electrical Trip, Bolted Contact Switches (26 28 16 16-0609)		
26 28 16 16-0619 EA 800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	11,120.84	1,297.91
26 28 16 16-0620 EA 1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	12,102.40	1,557.48
26 28 16 16-0621 EA 1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	13,090.46	1,817.07
26 28 16 16-0622 EA 2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	14,098.08	2,076.65
26 28 16 16-0623 EA 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	15,867.66	2,336.22
26 28 16 16-0624 EA 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	20,639.57	2,595.81
26 28 16 16-0625 EA 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	27,174.54	3,114.98
26 28 16 16-0626 Manually Operated, Bolted Contact Switches (26 28 16 16-0608)		
26 28 16 16-0627 Top Feed, Manually Operated, Bolted Contact Switches (26 28 16 16-0626)		
26 28 16 16-0628 EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	7,649.61	1,297.91
26 28 16 16-0629 EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....	8,541.30	1,557.48
26 28 16 16-0630 EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....	9,486.37	1,817.07
26 28 16 16-0631 EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....	10,423.66	2,076.65
26 28 16 16-0632 EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....	11,426.05	2,336.22
26 28 16 16-0633 EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....	15,181.99	2,595.81
26 28 16 16-0634 EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....	21,547.63	3,114.98
26 28 16 16-0635 Bottom Feed, Manually Operated, Bolted Contact Switches (26 28 16 16-0626)		
26 28 16 16-0636 EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	8,067.72	1,297.91
26 28 16 16-0637 EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	9,173.02	1,557.48
26 28 16 16-0638 EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	10,098.56	1,817.07
26 28 16 16-0639 EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	11,232.52	2,076.65
26 28 16 16-0640 EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	12,442.02	2,336.22
26 28 16 16-0641 EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	17,194.39	2,595.81
26 28 16 16-0642 EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	23,657.72	3,114.98
26 29 Low-Voltage Controllers (26 20)		
26 29 13 Enclosed Controllers (26 29)		
26 29 13 13 Across-The-Line Motor Controllers (26 29 13)		
26 29 13 13-0001 Manual Motor Starters (26 29 13 13)		
26 29 13 13-0002 Fractional HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0003 EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	249.81	65.04
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.34	
For Oversized Enclosure, Add	33.41	
For Pilot Light, Add	49.00	
26 29 13 13-0004 EA NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	327.26	84.55
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.34	
For Oversized Enclosure, Add	33.41	
For Pilot Light, Add	49.00	
26 29 13 13-0005 EA NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	283.21	65.04
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.34	
For Oversized Enclosure, Add	33.41	
For Pilot Light, Add	49.00	
26 29 13 13-0006 EA NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	360.67	84.55
For Flush Cover Plate In Lieu Of NEMA 1, Deduct	-3.34	
For Oversized Enclosure, Add	33.41	
For Pilot Light, Add	49.00	
26 29 13 13-0007 EA NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	264.28	65.04
For Oversized Enclosure, Add	33.41	
26 29 13 13-0008 EA NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	346.19	84.55
For Oversized Enclosure, Add	33.41	
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	536.40	78.05
For Pilot Light, Add	128.06	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	617.19	97.56
For Pilot Light, Add	128.06	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	569.80	78.05
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	647.25	97.56
26 29 13 13-0013 Non-Reversing Manual Motor Starters (26 29 13 13-0001)		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR			TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION			UNIT COST		UNIT COST
26 29 13 13-0014	EA	NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	201.01		65.04
		Note: NEMA 1 or flush cover plate installation.			
		For Oversize Enclosure, Add	16.12		
		For Pilot Light, Add	77.36		
26 29 13 13-0015	EA	NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	329.22		84.55
		Note: NEMA 1 or flush cover plate installation.			
		For Oversize Enclosure, Add	16.12		
		For Pilot Light, Add	77.36		
26 29 13 13-0016	EA	NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	226.91		71.54
		Note: NEMA 1 or flush cover plate installation.			
		For Oversize Enclosure, Add	16.12		
		For Pilot Light, Add	77.36		
26 29 13 13-0017	EA	NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	356.19		91.06
		Note: NEMA 1 or flush cover plate installation.			
		For Oversize Enclosure, Add	16.12		
		For Pilot Light, Add	77.36		
26 29 13 13-0018	EA	NEMA 1, Non-Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	232.17		65.04
		Note: NEMA 1 or flush cover plate installation.			
		For Oversize Enclosure, Add	16.12		
		For Pilot Light, Add	77.36		
26 29 13 13-0019	EA	NEMA 1, Non-Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	361.45		84.55
		Note: NEMA 1 or flush cover plate installation.			
		For Oversize Enclosure, Add	16.12		
		For Pilot Light, Add	77.36		
26 29 13 13-0020	EA	NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	493.50		78.05
		For Pilot Light, Add	122.49		
26 29 13 13-0021	EA	NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	609.88		97.56
		For Pilot Light, Add	122.49		
26 29 13 13-0022	EA	NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	520.48		84.55
		For Pilot Light, Add	122.49		
26 29 13 13-0023	EA	NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	633.63		104.07
		For Pilot Light, Add	122.49		
26 29 13 13-0024	EA	NEMA 3R, 7 And 9, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	523.58		78.05
26 29 13 13-0025	EA	NEMA 3R, 7 And 9, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	648.56		97.56
26 29 13 13-0026	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	146.93		45.53
		For Pilot Light, Add	77.36		
26 29 13 13-0027	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	275.14		65.04
		For Pilot Light, Add	77.36		
26 29 13 13-0028	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	172.84		52.04
		For Pilot Light, Add	77.36		
26 29 13 13-0029	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	301.05		71.54
		For Pilot Light, Add	77.36		
26 29 13 13-0030	Reversing Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0031	EA	NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	542.54		117.08
		For Pilot Light, Add	124.64		
26 29 13 13-0032	EA	NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	786.06		156.11
		For Pilot Light, Add	124.64		
26 29 13 13-0033	Two Speed Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0034	EA	NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	542.54		117.08
26 29 13 13-0035	EA	NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	786.06		156.11
26 29 13 13-0036	Non-Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)				
26 29 13 13-0037	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	497.99		78.05
26 29 13 13-0038	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	497.99		78.05
26 29 13 13-0039	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	1,031.78		91.06

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0040	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	1,031.78	91.06
26 29 13 13-0041	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,348.03	91.06
26 29 13 13-0042	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	634.24	91.06
26 29 13 13-0043	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	425.55	58.53
26 29 13 13-0044	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	591.18	84.55
26 29 13 13-0045	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	591.18	84.55
26 29 13 13-0046	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,235.21	97.56
26 29 13 13-0047	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,235.21	97.56
26 29 13 13-0048	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,575.95	97.56
26 29 13 13-0049	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	727.43	97.56
26 29 13 13-0050	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	518.74	65.04
26 29 13 13-0051	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	776.78	91.06
26 29 13 13-0052	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	776.78	91.06
26 29 13 13-0053	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,468.70	104.07
26 29 13 13-0054	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,468.70	104.07
26 29 13 13-0055	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,794.97	104.07
26 29 13 13-0056	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	916.38	104.07
26 29 13 13-0057	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	707.69	71.54
26 29 13 13-0058	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	616.64	97.56
26 29 13 13-0059	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	616.64	97.56
26 29 13 13-0060	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,150.44	110.57
26 29 13 13-0061	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,150.44	110.57
26 29 13 13-0062	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,475.60	110.57
26 29 13 13-0063	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	754.01	110.57
26 29 13 13-0064	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	547.55	78.05
26 29 13 13-0065	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	709.82	104.07
26 29 13 13-0066	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	709.82	104.07
26 29 13 13-0067	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,353.87	117.08
26 29 13 13-0068	EA	NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,353.87	117.08
26 29 13 13-0069	EA	NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,702.41	117.08
26 29 13 13-0070	EA	Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	846.09	117.08
26 29 13 13-0071	EA	Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	637.40	84.55
26 29 13 13-0072		Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,440.78	136.59
26 29 13 13-0074	EA	NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,440.78	136.59
26 29 13 13-0075	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,268.07	97.56
26 29 13 13-0076	EA	NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,703.98	149.60
26 29 13 13-0077	EA	Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,531.27	110.57
26 29 13 13-0078		Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079	EA	NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,440.78	136.59
26 29 13 13-0080	EA	Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,268.07	97.56



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0081	EA	NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,703.98		149.60
26 29 13 13-0082	EA	Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,531.27		110.57
26 29 13 13-0083	Magnetic Contactors/Starters (26 29 13 13)				
26 29 13 13-0084	Non-Reversing, Magnetic Contactors (26 29 13 13-0083)				
26 29 13 13-0085	Open Enclosure, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)				
26 29 13 13-0086	EA	Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO11).....	579.77		130.09
26 29 13 13-0087	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO12).....	652.56		143.10
26 29 13 13-0088	EA	Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO5).....	626.54		130.09
26 29 13 13-0089	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO1).....	700.44		143.10
26 29 13 13-0090	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO2).....	773.22		156.11
26 29 13 13-0091	EA	Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO3).....	977.11		195.13
26 29 13 13-0092	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,229.99		234.16
26 29 13 13-0093	EA	Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO5).....	730.51		143.10
26 29 13 13-0094	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO1).....	803.29		156.11
26 29 13 13-0095	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO2).....	878.30		169.12
26 29 13 13-0096	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,122.33		227.65
26 29 13 13-0097	EA	Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,374.09		266.68
26 29 13 13-0098	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,233.12		156.11
26 29 13 13-0099	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,372.42		195.13
26 29 13 13-0100	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,788.69		260.18
26 29 13 13-0101	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,849.02		195.13
26 29 13 13-0102	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO2).....	2,107.16		260.18
26 29 13 13-0103	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,680.44		325.22
26 29 13 13-0104	EA	Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,826.08		390.27
26 29 13 13-0105	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO1).....	4,171.48		325.22
26 29 13 13-0106	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,587.75		390.27
26 29 13 13-0107	EA	Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO3).....	6,207.78		455.31
26 29 13 13-0108	EA	Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO1).....	8,410.58		390.27
26 29 13 13-0109	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO2).....	9,337.78		520.35
26 29 13 13-0110	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHO2).....	24,209.58		780.52
26 29 13 13-0111	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJO2).....	34,665.77		1,170.79
26 29 13 13-0112	NEMA 1, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)				
26 29 13 13-0113	EA	Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG11).....	614.29		130.09
26 29 13 13-0114	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG12).....	687.08		143.10
26 29 13 13-0115	EA	Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG5).....	661.06		130.09
26 29 13 13-0116	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG1).....	736.08		143.10
26 29 13 13-0117	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG2).....	808.85		156.11
26 29 13 13-0118	EA	Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG3).....	1,014.97		195.13
26 29 13 13-0119	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,268.96		234.16
26 29 13 13-0120	EA	Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG5).....	767.25		143.10
26 29 13 13-0121	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG1).....	842.26		156.11

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0122	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG2)	915.05	169.12	
26 29 13 13-0123	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG3)	1,160.19	227.65	
26 29 13 13-0124	EA	Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG4)	1,410.84	266.68	
26 29 13 13-0125	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG1)	1,397.92	156.11	
26 29 13 13-0126	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG2)	1,538.34	195.13	
26 29 13 13-0127	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG3)	1,953.49	260.18	
26 29 13 13-0128	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG1)	2,173.07	195.13	
26 29 13 13-0129	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG2)	2,430.09	260.18	
26 29 13 13-0130	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG3)	3,004.48	325.22	
26 29 13 13-0131	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG1)	4,842.95	325.22	
26 29 13 13-0132	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG2)	5,259.23	390.27	
26 29 13 13-0133	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGG2)	10,561.57	520.35	
26 29 13 13-0134	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHG2)	29,591.38	780.52	
26 29 13 13-0135	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJG2)	40,063.15	1,170.79	
26 29 13 13-0136		NEMA 12, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)			
26 29 13 13-0137	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA1)	926.49	143.10	
26 29 13 13-0138	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA2)	999.27	156.11	
26 29 13 13-0139	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCA2)	1,105.47	169.12	
26 29 13 13-0140	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA1)	1,745.35	156.11	
26 29 13 13-0141	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA2)	1,886.88	195.13	
26 29 13 13-0142	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA1)	2,585.08	195.13	
26 29 13 13-0143	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA2)	2,840.99	260.18	
26 29 13 13-0144	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFA2)	6,623.33	390.27	
26 29 13 13-0145	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGA2)	14,052.56	520.35	
26 29 13 13-0146	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHA2)	33,871.87	780.52	
26 29 13 13-0147		NEMA 4/4X, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)			
Note: Brushed stainless steel enclosure.					
26 29 13 13-0148	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBW12)	1,364.52	156.11	
26 29 13 13-0149	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW11)	1,413.51	156.11	
26 29 13 13-0150	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW12)	1,486.30	169.12	
26 29 13 13-0151	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW13)	1,731.44	227.65	
26 29 13 13-0152	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDW12)	2,680.85	195.13	
26 29 13 13-0153	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEW12)	4,046.97	260.18	
26 29 13 13-0154	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFW12)	8,019.72	390.27	
26 29 13 13-0155	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGW12)	14,052.56	520.35	
26 29 13 13-0156	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHW2)	37,519.87	780.52	
26 29 13 13-0157		NEMA 7/9, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)			
Note: Bolted cast iron enclosure.					
26 29 13 13-0158	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBT2)	2,721.33	208.14	
26 29 13 13-0159		Non-Reversing, Magnetic Starters (26 29 13 13-0083)			
26 29 13 13-0160		Open Enclosure, Non-Reversing, Magnetic Starters (26 29 13 13-0159)			



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0161 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO11)	690.01	130.09
26 29 13 13-0162 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO12)	716.03	143.10
26 29 13 13-0163 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO1)	770.60	143.10
26 29 13 13-0164 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO2)	852.28	156.11
26 29 13 13-0165 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO4)	1,369.18	234.16
26 29 13 13-0166 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO1)	876.78	156.11
26 29 13 13-0167 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO3)	1,028.63	169.12
26 29 13 13-0168 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO2)	1,075.40	169.12
26 29 13 13-0169 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO6)	1,334.45	156.11
26 29 13 13-0170 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO1)	1,516.07	195.13
26 29 13 13-0171 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEO1)	2,344.35	260.18
26 29 13 13-0172 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFO1)	4,953.00	390.27
26 29 13 13-0173 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGO1)	11,231.93	520.35
26 29 13 13-0174 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHO2)	25,787.49	780.52
26 29 13 13-0175 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SJO2)	37,151.22	1,170.79
26 29 13 13-0176 NEMA 1, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0177 EA Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG11)	726.76	130.09
26 29 13 13-0178 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG12)	752.78	143.10
26 29 13 13-0179 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG1)	807.34	143.10
26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG2)	889.03	156.11
26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG1)	912.41	156.11
26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG3)	995.23	169.12
26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG2)	1,113.26	169.12
26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG6)	1,500.37	156.11
26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG1)	1,681.99	195.13
26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEG1)	2,668.39	260.18
26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFG1)	5,624.47	390.27
26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGG1)	12,459.06	520.35
26 29 13 13-0189 NEMA 12, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA1)	997.76	143.10
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA2)	1,079.45	156.11
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA1)	1,102.83	156.11
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA3)	1,185.64	169.12
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA2)	1,303.68	169.12
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA6)	1,848.91	156.11
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA1)	2,029.42	195.13
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEA1)	3,079.29	260.18
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFA1)	6,987.46	390.27
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGA1)	15,946.71	520.35
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHA2)	38,004.27	780.52

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0201			NEMA 3R, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0202	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH1).....	997.76	143.10
26 29 13 13-0203	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH2).....	1,079.45	156.11
26 29 13 13-0204	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH1).....	1,102.83	156.11
26 29 13 13-0205	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH3).....	1,185.64	169.12
26 29 13 13-0206	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH2).....	1,303.68	169.12
26 29 13 13-0207	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH6).....	1,848.91	156.11
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH1).....	2,029.42	195.13
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEH1).....	3,079.29	260.18
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFH1).....	6,987.46	390.27
26 29 13 13-0211			NEMA 3R/4/4X/7/9, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
			Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT4).....	2,836.44	221.15
26 29 13 13-0213	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR1).....	3,484.52	221.15
26 29 13 13-0214	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR3).....	3,590.72	234.16
26 29 13 13-0215	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDR1).....	5,561.40	260.18
26 29 13 13-0216	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SET43).....	6,707.04	325.22
26 29 13 13-0217	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFT41).....	10,685.37	455.31
26 29 13 13-0218			NEMA 4/4X, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
			Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW11).....	1,361.89	143.10
26 29 13 13-0220	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW12).....	1,444.69	156.11
26 29 13 13-0221	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW11).....	1,483.67	156.11
26 29 13 13-0222	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW13).....	1,566.48	169.12
26 29 13 13-0223	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW12).....	1,684.51	169.12
26 29 13 13-0224	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW16).....	2,640.65	156.11
26 29 13 13-0225	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW11).....	4,284.16	260.18
26 29 13 13-0226	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW11).....	8,382.74	390.27
26 29 13 13-0227	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGW11).....	18,629.25	520.35
26 29 13 13-0228			NEMA 4X, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
			Note: Glass polyester enclosure.		
26 29 13 13-0229	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW21).....	2,824.49	195.13
26 29 13 13-0230	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW21).....	5,226.22	260.18
26 29 13 13-0231	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW21).....	10,284.69	390.27
26 29 13 13-0232			NEMA 7/9, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT1).....	2,744.72	208.14
26 29 13 13-0234	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT2).....	2,836.44	221.15
26 29 13 13-0235	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT1).....	2,876.52	221.15
26 29 13 13-0236	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT3).....	2,963.79	234.16
26 29 13 13-0237	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT2).....	3,099.64	234.16
26 29 13 13-0238	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDT1).....	4,554.75	260.18



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0239		Reversing, Magnetic Starters (26 29 13 13-0083)		
26 29 13 13-0240		Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13)	1,299.23	169.12
26 29 13 13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16)	1,369.38	169.12
26 29 13 13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1)	1,515.66	182.12
26 29 13 13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2)	1,572.86	195.13
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10)	1,611.84	195.13
26 29 13 13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2)	1,724.70	208.14
26 29 13 13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3)	1,797.14	227.65
26 29 13 13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCOT)	1,837.23	227.65
26 29 13 13-0249	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1)	3,136.08	260.18
26 29 13 13-0250	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1)	5,125.60	390.27
26 29 13 13-0251	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1)	11,782.94	585.40
26 29 13 13-0252	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1)	21,949.07	780.52
26 29 13 13-0253	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1)	71,066.99	1,430.97
26 29 13 13-0254		NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0255	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13)	1,340.02	156.11
26 29 13 13-0256	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15)	1,399.45	169.12
26 29 13 13-0257	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16)	1,439.53	169.12
26 29 13 13-0258	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1)	1,582.48	182.12
26 29 13 13-0259	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2)	1,641.90	195.13
26 29 13 13-0260	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4)	1,681.99	195.13
26 29 13 13-0261	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2)	1,824.92	208.14
26 29 13 13-0262	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6)	1,897.36	227.65
26 29 13 13-0263	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8)	1,937.45	227.65
26 29 13 13-0264	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2)	3,396.65	260.18
26 29 13 13-0265	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2)	5,576.59	390.27
26 29 13 13-0266	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3)	12,611.42	585.40
26 29 13 13-0267		NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0268	EA	Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2)	1,926.97	195.13
26 29 13 13-0269	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4)	1,967.06	195.13
26 29 13 13-0270	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4)	2,222.52	227.65
26 29 13 13-0271	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1)	3,873.26	260.18
26 29 13 13-0272		NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)		
		Note: Brushed stainless steel enclosure.		
26 29 13 13-0273	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14)	2,410.25	195.13
26 29 13 13-0274	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11)	2,840.48	208.14
26 29 13 13-0275		Magnetic Contactor/Starters Accessories (26 29 13 13-0083)		
26 29 13 13-0276	EA	NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2)	179.82	16.26
		For Factory Installed Accessory, Deduct	-32.52	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0277	EA		NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	305.54	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0278	EA		NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	179.82	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0279	EA		NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	305.54	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0280	EA		NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	305.54	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0281	EA		Internal Non-Convertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	151.73	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0282	EA		External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	135.23	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0283	EA		External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	179.82	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0284	EA		External Field Non-Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	151.73	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0285	EA		External Field Non-Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	202.68	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0286	EA		30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	226.65	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0287	EA		45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	390.46	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0288	EA		60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	414.59	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0289	EA		30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	496.01	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0290	EA		45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	865.54	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0291	EA		60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	865.54	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0292	EA		Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	52.66	9.75
			<i>For Factory Installed Accessory, Deduct</i>	-19.51	
26 29 13 13-0293	EA		1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	107.29	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0294	EA		2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	141.73	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0295	EA		Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	111.25	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0296	EA		Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	61.81	9.75
			<i>For Factory Installed Accessory, Deduct</i>	-19.51	
26 29 13 13-0297	EA		Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	37.68	9.75
			<i>For Factory Installed Accessory, Deduct</i>	-19.51	
26 29 13 13-0298	EA		1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39).....	197.45	13.01
			<i>For Factory Installed Accessory, Deduct</i>	-26.02	
26 29 13 13-0299	EA		2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40).....	341.09	16.26
			<i>For Factory Installed Accessory, Deduct</i>	-32.52	
26 29 13 13-0300			Definite Purpose Starters (26 29 13 13)		
26 29 13 13-0301			Open Enclosure, Definite Purpose Starter (26 29 13 13-0300)		
26 29 13 13-0302	EA		Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13).....	642.93	156.11
			<i>For Factory Installed Accessory, Deduct</i>	-312.21	
26 29 13 13-0303	EA		Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22).....	641.82	156.11
			<i>For Factory Installed Accessory, Deduct</i>	-312.21	
26 29 13 13-0304	EA		Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23).....	694.57	169.12
			<i>For Factory Installed Accessory, Deduct</i>	-338.23	
26 29 13 13-0305	EA		Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32).....	683.02	156.11
			<i>For Factory Installed Accessory, Deduct</i>	-312.21	
26 29 13 13-0306	EA		Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33).....	742.45	169.12
			<i>For Factory Installed Accessory, Deduct</i>	-338.23	
26 29 13 13-0307	EA		Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42).....	718.66	156.11
			<i>For Factory Installed Accessory, Deduct</i>	-312.21	
26 29 13 13-0308	EA		Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43).....	834.58	195.13
			<i>For Factory Installed Accessory, Deduct</i>	-390.27	
26 29 13 13-0309	EA		Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52).....	927.00	195.13
			<i>For Factory Installed Accessory, Deduct</i>	-390.27	
26 29 13 13-0310	EA		Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53).....	1,165.76	227.65
			<i>For Factory Installed Accessory, Deduct</i>	-455.31	
26 29 13 13-0311			NEMA 1, Definite Purpose Starter (26 29 13 13-0300)		



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0312	EA	NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12) <i>For Factory Installed Accessory, Deduct</i>	655.90 -286.20	143.10
26 29 13 13-0313	EA	NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13) <i>For Factory Installed Accessory, Deduct</i>	708.63 -312.21	156.11
26 29 13 13-0314	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22) <i>For Factory Installed Accessory, Deduct</i>	706.41 -312.21	156.11
26 29 13 13-0315	EA	NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23) <i>For Factory Installed Accessory, Deduct</i>	762.49 -338.23	169.12
26 29 13 13-0316	EA	NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32) <i>For Factory Installed Accessory, Deduct</i>	748.72 -312.21	156.11
26 29 13 13-0317	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33) <i>For Factory Installed Accessory, Deduct</i>	809.26 -338.23	169.12
26 29 13 13-0318	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42) <i>For Factory Installed Accessory, Deduct</i>	786.58 -312.21	156.11
26 29 13 13-0319	EA	NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43) <i>For Factory Installed Accessory, Deduct</i>	901.39 -390.27	195.13
26 29 13 13-0320	EA	NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52) <i>For Factory Installed Accessory, Deduct</i>	990.47 -390.27	195.13
26 29 13 13-0321	EA	NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) <i>For Factory Installed Accessory, Deduct</i>	1,230.34 -455.31	227.65
26 29 13 13-0322	Definite Purpose Starter Accessory (26 29 13 13-0300)			
26 29 13 13-0323	EA	Start-Stop Push Button Kit, Definite Purpose Starter Accessory Note: Or Hand-Off-Auto Selector Switch Kit <i>For Factory Installed Accessory, Deduct</i>	202.68 -32.52	16.26
26 29 13 13-0324	Panel Mounted Miniature Contactor (26 29 13 13)			
26 29 13 13-0325	Non-Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)			
26 29 13 13-0326	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	193.56	65.04
26 29 13 13-0327	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	226.62	71.54
26 29 13 13-0328	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	226.62	71.54
26 29 13 13-0329	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K).....	251.88	78.05
26 29 13 13-0330	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	213.61	65.04
26 29 13 13-0331	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	224.74	65.04
26 29 13 13-0332	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	245.55	71.54
26 29 13 13-0333	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	256.68	71.54
26 29 13 13-0334	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	252.23	71.54
26 29 13 13-0335	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	256.68	71.54
26 29 13 13-0336	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	274.15	78.05
26 29 13 13-0337	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	263.36	71.54
26 29 13 13-0338	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	285.28	78.05
26 29 13 13-0339	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	265.59	71.54

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0340	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)	265.59	71.54	
26 29 13 13-0341	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)	296.42	78.05	
26 29 13 13-0342	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Non-Reversing, Panel Mounted Miniature Contactor (Square D LP4K)	296.42	78.05	
26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor (26 29 13 13-0324)					
26 29 13 13-0344	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	274.85	65.04	
26 29 13 13-0345	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	297.12	65.04	
26 29 13 13-0346	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	329.06	71.54	
26 29 13 13-0347	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	329.06	71.54	
26 29 13 13-0348	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	351.33	71.54	
26 29 13 13-0349	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	368.80	78.05	
26 29 13 13-0350	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K)	368.80	78.05	
26 29 13 13-0351	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	316.05	65.04	
26 29 13 13-0352	EA	3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	338.32	65.04	
26 29 13 13-0353	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	368.04	71.54	
26 29 13 13-0354	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	390.31	71.54	
26 29 13 13-0355	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	414.45	78.05	
26 29 13 13-0356	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K)	436.73	78.05	
26 29 13 13-0357	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	355.79	71.54	
26 29 13 13-0358	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	408.13	71.54	
26 29 13 13-0359	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K)	461.22	78.05	
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)					
26 29 13 13-0361	EA	2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02)	82.52	32.52	
26 29 13 13-0362	EA	4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40)	91.12	32.52	
26 29 13 13-0363	EA	Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U)	106.69	32.52	
26 29 13 13-0364	EA	Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301)	137.66	32.52	
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)					
26 29 13 13-0366 NEMA 1 Enclosure (26 29 13 13-0365)					
26 29 13 13-0367	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... For NEMA 4, Add 812.88	7,775.48	623.00	
26 29 13 13-0368	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... For NEMA 4, Add 1,484.78	13,542.20	830.66	
26 29 13 13-0369	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... For NEMA 4, Add 2,709.95	23,646.09	986.40	
26 29 13 13-0370	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... For NEMA 4, Add 6,888.39	57,510.61	1,207.05	
26 29 13 13-0371	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... For NEMA 4, Add 11,077.05	91,706.65	1,544.50	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 29 13 13-0372	NEMA 12 Enclosure (26 29 13 13-0365)			
26 29 13 13-0373	EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	7,721.31		636.23
26 29 13 13-0374	EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	13,443.27		831.96
26 29 13 13-0375	EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	23,465.51		983.29
26 29 13 13-0376	EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	57,051.60		1,201.73
26 29 13 13-0377	EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing	90,968.53		1,545.15
26 29 13 13-0378	Factory Modifications Pilot Devices (26 29 13 13-0365)			
26 29 13 13-0379	EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	191.52		
26 29 13 13-0380	EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	211.22		
26 29 13 13-0381	EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	359.54		
26 29 13 13-0382	EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	195.35		
26 29 13 13-0383	EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	280.89		
26 29 13 13-0384	EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	140.44		
26 29 13 13-0385	EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device	458.40		
26 29 13 13-0386	Factory Modifications Meters (26 29 13 13-0365)			
26 29 13 13-0387	EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,842.64		
26 29 13 13-0388	EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	1,779.73		
26 29 13 13-0389	EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	629.19		
26 29 13 13-0390	EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter	521.35		
26 29 13 13-0391	Factory Modifications Main Circuit Breakers (26 29 13 13-0365)			
26 29 13 13-0392	EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker	2,435.31		
26 29 13 13-0393	EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker	4,453.89		
26 29 13 13-0394	EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker	9,473.85		
26 29 13 13-0395	Factory Modifications Addition (26 29 13 13-0365)			
Note: For reversing service auto transformer type.				
26 29 13 13-0396	EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	408.99		
26 29 13 13-0397	EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	408.99		
26 29 13 13-0398	EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	408.99		
26 29 13 13-0399	EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	408.99		
26 29 13 13-0400	Combination Starters Non-Reversing (26 29 13 13)			
26 29 13 13-0401	240-600 Volt, 3-Pole (26 29 13 13-0400)			
26 29 13 13-0402	NEMA 1 With Disconnect (Safety) Switch (26 29 13 13-0401)			
26 29 13 13-0403	EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,885.60		298.51
	For Electronic Overloads, Add	244.10		
26 29 13 13-0404	EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,295.82		467.25
	For Electronic Overloads, Add	257.51		
26 29 13 13-0405	EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,227.49		545.12
	For Electronic Overloads, Add	407.72		
26 29 13 13-0406	EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	4,923.79		674.91
	For Electronic Overloads, Add	678.64		
26 29 13 13-0407	EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	9,052.66		1,077.27
	For Electronic Overloads, Add	1,309.00		
26 29 13 13-0408	EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	18,172.35		1,349.82
	For Electronic Overloads, Add	2,938.99		
26 29 13 13-0409	NEMA 1 With Circuit Breaker (26 29 13 13-0401)			
26 29 13 13-0410	EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,393.84		298.51
	For Electronic Overloads, Add	340.66		
26 29 13 13-0411	EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,804.06		467.25
	For Electronic Overloads, Add	354.07		
26 29 13 13-0412	EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,721.61		545.12
	For Electronic Overloads, Add	501.60		
26 29 13 13-0413	EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,192.03		674.91
	For Electronic Overloads, Add	729.61		
26 29 13 13-0414	EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	10,591.49		1,077.27
	For Electronic Overloads, Add	1,601.38		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0415	EA	Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	22,252.39	1,349.82	
		<i>For Electronic Overloads, Add</i>	3,714.20		
26 29 13 13-0416		Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)			
26 29 13 13-0417	EA	Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	231.45		
26 29 13 13-0418	EA	H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	543.62		
26 29 13 13-0419	EA	Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	375.19		
26 29 13 13-0420		NEMA 4 With Disconnect (Safety) Switch (26 29 13 13-0401)			
26 29 13 13-0421	EA	Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,441.20	389.38	
		<i>For Electronic Overloads, Add</i>	501.60		
26 29 13 13-0422	EA	Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,792.20	545.12	
		<i>For Electronic Overloads, Add</i>	515.02		
26 29 13 13-0423	EA	Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,437.09	597.04	
		<i>For Electronic Overloads, Add</i>	804.71		
26 29 13 13-0424	EA	Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,656.30	726.83	
		<i>For Electronic Overloads, Add</i>	1,370.69		
26 29 13 13-0425	EA	Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	13,711.52	1,077.27	
		<i>For Electronic Overloads, Add</i>	2,194.18		
26 29 13 13-0426	EA	Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	30,059.52	1,349.82	
		<i>For Electronic Overloads, Add</i>	5,197.55		
26 29 13 13-0427		NEMA 4 With Circuit Breaker (26 29 13 13-0401)			
26 29 13 13-0428	EA	Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,949.44	389.38	
		<i>For Electronic Overloads, Add</i>	598.17		
26 29 13 13-0429	EA	Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,300.44	545.12	
		<i>For Electronic Overloads, Add</i>	611.58		
26 29 13 13-0430	EA	Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,931.22	597.04	
		<i>For Electronic Overloads, Add</i>	898.60		
26 29 13 13-0431	EA	Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	8,924.54	726.83	
		<i>For Electronic Overloads, Add</i>	1,421.66		
26 29 13 13-0432	EA	Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	15,250.36	1,077.27	
		<i>For Electronic Overloads, Add</i>	2,486.56		
26 29 13 13-0433	EA	Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	28,464.21	1,349.82	
		<i>For Electronic Overloads, Add</i>	4,894.45		
26 29 13 13-0434		Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)			
26 29 13 13-0435	EA	Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	231.48		
26 29 13 13-0436	EA	H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	543.62		
26 29 13 13-0437	EA	Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt	375.19		
26 29 13 13-0438		NEMA 12 With Disconnect (Safety) Switch (26 29 13 13-0401)			
26 29 13 13-0439	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,949.83	300.46	
		<i>For Electronic Overloads, Add</i>	256.30		
26 29 13 13-0440	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,363.58	470.23	
		<i>For Electronic Overloads, Add</i>	270.38		
26 29 13 13-0441	EA	Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,334.78	540.83	
		<i>For Electronic Overloads, Add</i>	428.11		
26 29 13 13-0442	EA	Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,102.37	675.95	
		<i>For Electronic Overloads, Add</i>	712.57		
26 29 13 13-0443	EA	Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	9,397.12	1,081.67	
		<i>For Electronic Overloads, Add</i>	1,374.45		
26 29 13 13-0444	EA	Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	18,945.75	1,351.90	
		<i>For Electronic Overloads, Add</i>	3,085.94		
26 29 13 13-0445		NEMA 12 With Circuit Breaker (26 29 13 13-0401)			
26 29 13 13-0446	EA	Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,556.71	300.46	
		<i>For Electronic Overloads, Add</i>	371.61		
26 29 13 13-0447	EA	Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,973.34	470.23	
		<i>For Electronic Overloads, Add</i>	386.24		
26 29 13 13-0448	EA	Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,961.43	540.83	
		<i>For Electronic Overloads, Add</i>	547.17		
26 29 13 13-0449	EA	Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,540.84	675.95	
		<i>For Electronic Overloads, Add</i>	795.88		
26 29 13 13-0450	EA	Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	11,357.10	1,081.67	
		<i>For Electronic Overloads, Add</i>	1,746.84		
26 29 13 13-0451	EA	Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	24,028.12	1,351.90	
		<i>For Electronic Overloads, Add</i>	4,051.59		
26 29 13 13-0452		Factory Modifications For NEMA 12 Enclosure (26 29 13 13-0401)			
26 29 13 13-0453	EA	Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt	229.55		
26 29 13 13-0454	EA	H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt	539.10		
26 29 13 13-0455	EA	Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt	372.06		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0456		NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0401)		
26 29 13 13-0457	EA	Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,498.95	623.00
26 29 13 13-0458	EA	Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,093.94	830.66
26 29 13 13-0459	EA	Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,647.98	1,142.16
26 29 13 13-0460	EA	Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,865.09	1,557.48
26 29 13 13-0461	EA	Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,849.16	2,180.48
26 29 13 13-0462		Factory Modifications For NEMA 7 Or 9 Enclosure (26 29 13 13-0401)		
26 29 13 13-0463	EA	Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,376.45	
26 29 13 13-0464	EA	H-0-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,376.45	
26 29 13 13-0465	EA	Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,376.45	
26 29 13 13-0466		Combination Starters Reversing (26 29 13 13)		
26 29 13 13-0467		240-600 Volt, 3 Pole (26 29 13 13-0466)		
26 29 13 13-0468		NEMA 1 With Disconnect (Safety) Switch (26 29 13 13-0467)		
26 29 13 13-0469	EA	Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,332.15	389.38
26 29 13 13-0470	EA	Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,715.08	545.12
26 29 13 13-0471	EA	Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,932.22	597.04
26 29 13 13-0472	EA	Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	5,966.69	726.83
26 29 13 13-0473	EA	Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	11,639.48	1,077.27
26 29 13 13-0474		NEMA 1 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0475	EA	Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,600.31	389.38
26 29 13 13-0476	EA	Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,001.33	545.12
26 29 13 13-0477	EA	Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,267.32	597.04
26 29 13 13-0478	EA	Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,505.34	726.83
26 29 13 13-0479	EA	Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,545.88	1,077.27
26 29 13 13-0480		NEMA 12 With Disconnect (Safety) Switch (26 29 13 13-0467)		
26 29 13 13-0481	EA	Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,488.09	400.66
26 29 13 13-0482	EA	Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,881.46	540.83
26 29 13 13-0483	EA	Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,210.33	600.93
26 29 13 13-0484	EA	Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,427.54	721.11
26 29 13 13-0485	EA	Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	12,604.70	1,081.67
26 29 13 13-0486		NEMA 12 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0487	EA	Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,783.57	400.66
26 29 13 13-0488	EA	Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,196.87	540.83
26 29 13 13-0489	EA	Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,579.57	600.93
26 29 13 13-0490	EA	Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,919.21	721.11
26 29 13 13-0491	EA	Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,603.42	1,081.67
26 29 13 13-0492		NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0493	EA	Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,461.47	830.66
26 29 13 13-0494	EA	Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,878.56	1,038.33
26 29 13 13-0495	EA	Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	8,442.11	1,349.82
26 29 13 13-0496	EA	Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,404.39	1,765.15
26 29 13 13-0497	EA	Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	24,408.74	2,388.14
26 29 13 13-0498		Solid State Motor Controllers (26 29 13 13)		
26 29 13 13-0499		Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)		
26 29 13 13-0500	EA	0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking.....	1,845.89	233.62
26 29 13 13-0501	EA	0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,221.13	233.62
26 29 13 13-0502		Removal And Reinstallation Of Motor Starters (26 29 13 13) Note: Includes storage and cleaning.		
26 29 13 13-0503	EA	Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	927.07	
26 29 13 13-0504		Auxiliary Devices (26 29 13 13)		
26 29 13 13-0505	EA	Normally Open, Auxiliary Contact.....	551.73	129.79
26 29 13 13-0506	EA	Normally Closed, Auxiliary Contact.....	551.73	129.79
26 29 13 13-0507	EA	Pilot Light Kit.....	581.21	129.79
26 29 23		Variable-Frequency Motor Controllers (26 29)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 29 23 00-0001	208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)			
	Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.			
26 29 23 00-0002	EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,252.65	480.31	
	For 6-Pulse Drive Package, Deduct	-710.56		
26 29 23 00-0003	EA 1 HP, 208/230 Volt Variable Frequency Drive	2,532.35	524.94	
	For 6-Pulse Drive Package, Deduct	-818.03		
26 29 23 00-0004	EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	2,936.00	577.21	
	For 6-Pulse Drive Package, Deduct	-979.86		
26 29 23 00-0005	EA 2 HP, 208/230 Volt Variable Frequency Drive	3,083.18	554.83	
	For 6-Pulse Drive Package, Deduct	-1,085.44		
26 29 23 00-0006	EA 3 HP, 208/230 Volt Variable Frequency Drive	3,307.49	604.92	
	For 6-Pulse Drive Package, Deduct	-1,153.71		
26 29 23 00-0007	EA 5 HP, 208/230 Volt Variable Frequency Drive	3,566.10	604.92	
	For 6-Pulse Drive Package, Deduct	-1,295.95		
26 29 23 00-0008	EA 7.5 HP, 208/230 Volt Variable Frequency Drive	4,260.57	722.27	
	For 6-Pulse Drive Package, Deduct	-1,548.82		
26 29 23 00-0009	EA 10 HP, 208/230 Volt Variable Frequency Drive	4,634.12	722.27	
	For 6-Pulse Drive Package, Deduct	-1,754.27		
26 29 23 00-0010	EA 15 HP, 208/230 Volt Variable Frequency Drive	6,140.46	1,087.52	
	For 6-Pulse Drive Package, Deduct	-2,180.99		
26 29 23 00-0011	EA 20 HP, 208/230 Volt Variable Frequency Drive	7,174.92	1,087.52	
	For 6-Pulse Drive Package, Deduct	-2,749.94		
26 29 23 00-0012	EA 25 HP, 208/230 Volt Variable Frequency Drive	8,779.88	1,444.66	
	For 6-Pulse Drive Package, Deduct	-3,239.87		
26 29 23 00-0013	EA 30 HP, 208/230 Volt Variable Frequency Drive	10,072.95	1,444.66	
	For 6-Pulse Drive Package, Deduct	-3,951.06		
26 29 23 00-0014	EA 40 HP, 208/230 Volt Variable Frequency Drive	11,193.62	1,444.66	
	For 6-Pulse Drive Package, Deduct	-4,567.43		
26 29 23 00-0015	EA 50 HP, 208/230 Volt Variable Frequency Drive	14,744.06	1,826.24	
	For 6-Pulse Drive Package, Deduct	-6,100.44		
26 29 23 00-0016	EA 60 HP, 208/230 Volt Variable Frequency Drive	17,768.77	2,160.40	
	For 6-Pulse Drive Package, Deduct	-7,396.39		
26 29 23 00-0017	EA 75 HP, 208/230 Volt Variable Frequency Drive	20,067.57	2,160.40	
	For 6-Pulse Drive Package, Deduct	-8,660.73		
26 29 23 00-0018	460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)			
	Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.			
26 29 23 00-0019	EA 3 HP, 460/480 Volt Variable Frequency Drive	5,291.51	864.18	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-1,959.73		
26 29 23 00-0020	EA 5 HP, 460/480 Volt Variable Frequency Drive	5,463.92	864.18	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,054.55		
26 29 23 00-0021	EA 7.5 HP, 460/480 Volt Variable Frequency Drive	5,995.95	1,029.69	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,165.19		
26 29 23 00-0022	EA 10 HP, 460/480 Volt Variable Frequency Drive	6,024.68	1,029.69	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,180.99		
26 29 23 00-0023	EA 15 HP, 460/480 Volt Variable Frequency Drive	8,121.98	1,561.05	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,749.94		
26 29 23 00-0024	EA 20 HP, 460/480 Volt Variable Frequency Drive	8,524.27	1,561.05	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-2,971.20		
26 29 23 00-0025	EA 25 HP, 460/480 Volt Variable Frequency Drive	10,296.65	2,059.37	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-3,397.91		
26 29 23 00-0026	EA 30 HP, 460/480 Volt Variable Frequency Drive	11,733.41	2,059.37	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-4,188.13		
26 29 23 00-0027	EA 40 HP, 460/480 Volt Variable Frequency Drive	13,227.63	2,059.37	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-5,009.95		
26 29 23 00-0028	EA 50 HP, 460/480 Volt Variable Frequency Drive	17,300.38	2,615.90	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-6,637.79		
26 29 23 00-0029	EA 60 HP, 460/480 Volt Variable Frequency Drive	22,985.50	3,102.13	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-9,229.68		
26 29 23 00-0030	EA 75 HP, 460/480 Volt Variable Frequency Drive	24,364.78	3,102.13	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-9,988.29		
26 29 23 00-0031	EA 100 HP, 460/480 Volt Variable Frequency Drive	28,177.24	3,456.73	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-11,695.15		
26 29 23 00-0032	EA 125 HP, 460/480 Volt Variable Frequency Drive	29,671.46	3,456.73	
	Note: Wall mounted.			
	For 6-Pulse Drive Package, Deduct	-12,516.97		
26 29 23 00-0033	EA 150 HP, 460/480 Volt Variable Frequency Drive	32,774.84	3,456.73	
	Note: Floor mounted.			
	For 6-Pulse Drive Package, Deduct	-14,223.83		



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Controllers		26 29	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0034	EA		200 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted.	37,883.30	4,171.87
			<i>For 6-Pulse Drive Package, Deduct</i>	-16,246.77	
26 29 23 00-0035	EA		250 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted.	47,202.63	4,358.06
			<i>For 6-Pulse Drive Package, Deduct</i>	-21,167.58	
26 29 23 00-0036	EA		300 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted.	55,333.79	5,000.72
			<i>For 6-Pulse Drive Package, Deduct</i>	-24,932.79	
26 29 23 00-0037	EA		350 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted.	63,580.31	5,423.43
			<i>For 6-Pulse Drive Package, Deduct</i>	-29,003.33	
26 29 23 00-0038	EA		400 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted.	73,587.92	5,856.20
			<i>For 6-Pulse Drive Package, Deduct</i>	-34,031.61	
26 29 23 00-0039	EA		450 HP, 460/480 Volt Variable Frequency Drive Note: Floor mounted.	79,318.89	6,350.41
			<i>For 6-Pulse Drive Package, Deduct</i>	-36,639.94	

26 30 Facility Electrical Power Generating and Storing Equipment

(26)

26 31 Photovoltaic Collectors

(26 30)

26 31 00 00-0001 Rigid Photovoltaic Modules

(26 31)

26 31 00 00-0002 Sanyo Rigid Photovoltaic Modules

(26 31 00 00-0001)

26 31 00 00-0003	EA		205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	2,265.28	123.30
			<i>For >25 To 50, Deduct</i>	-163.73	
			<i>For >50 To 100, Deduct</i>	-220.36	
			<i>For >100, Deduct</i>	-327.46	
26 31 00 00-0004	EA		210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	2,374.70	123.30
			<i>For >25 To 50, Deduct</i>	-171.94	
			<i>For >50 To 100, Deduct</i>	-231.31	
			<i>For >100, Deduct</i>	-343.88	
26 31 00 00-0005	EA		215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	2,222.35	123.30
			<i>For >25 To 50, Deduct</i>	-160.51	
			<i>For >50 To 100, Deduct</i>	-216.07	
			<i>For >100, Deduct</i>	-321.02	

26 31 00 00-0006 Sharp Rigid Photovoltaic Modules

(26 31 00 00-0001)

26 31 00 00-0007	EA		224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,772.55	123.30
			<i>For >25 To 50, Deduct</i>	-126.78	
			<i>For >50 To 100, Deduct</i>	-171.09	
			<i>For >100, Deduct</i>	-253.55	
26 31 00 00-0008	EA		230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	2,016.80	123.30
			<i>For >25 To 50, Deduct</i>	-145.10	
			<i>For >50 To 100, Deduct</i>	-195.52	
			<i>For >100, Deduct</i>	-290.19	
26 31 00 00-0009	EA		235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	2,055.49	123.30
			<i>For >25 To 50, Deduct</i>	-148.00	
			<i>For >50 To 100, Deduct</i>	-199.38	
			<i>For >100, Deduct</i>	-295.99	
26 31 00 00-0010	EA		240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1).....	1,934.57	123.30
			<i>For >25 To 50, Deduct</i>	-138.93	
			<i>For >50 To 100, Deduct</i>	-187.29	
			<i>For >100, Deduct</i>	-277.86	

26 31 00 00-0011 BP Solar Rigid Photovoltaic Modules

(26 31 00 00-0001)

Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.

26 31 00 00-0012	EA		50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J)	872.82	123.30
			<i>For >25 To 50, Deduct</i>	-59.30	
			<i>For >50 To 100, Deduct</i>	-81.12	
			<i>For >100, Deduct</i>	-118.59	
26 31 00 00-0013	EA		75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J)	1,078.37	123.30
			<i>For >25 To 50, Deduct</i>	-74.71	
			<i>For >50 To 100, Deduct</i>	-101.67	
			<i>For >100, Deduct</i>	-149.43	
26 31 00 00-0014	EA		80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J)	1,160.60	123.30
			<i>For >25 To 50, Deduct</i>	-80.88	
			<i>For >50 To 100, Deduct</i>	-109.90	
			<i>For >100, Deduct</i>	-161.76	

26 31 00 00-0015 Photovoltaic Inverters

(26 31)

26 31 00 00-0016 Fronius Photovoltaic Inverters

(26 31 00 00-0015)

26 31 00 00-0017	EA		3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1)	5,401.11	129.79
26 31 00 00-0018	EA		5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1)	7,125.24	129.79

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0019	EA		6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1)	7,521.35	129.79
26 31 00 00-0020	EA		7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1)	8,410.08	129.79
26 31 00 00-0021	EA		10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1)	13,318.92	129.79
26 31 00 00-0022	EA		12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1)	15,482.78	129.79
26 31 00 00-0023	EA		11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta)	12,605.44	259.58
26 31 00 00-0024	EA		11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3)	15,955.05	259.58
26 31 00 00-0025	EA		Inverter Display Stand (Fronius 4,045,894)	472.46	64.89
26 31 00 00-0026 SMA Photovoltaic Inverters (26 31 00 00-0015)					
26 31 00 00-0027	EA		4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22)	4,010.31	129.79
26 31 00 00-0028	EA		5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22)	4,814.25	129.79
26 31 00 00-0029	EA		6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22)	5,563.48	129.79
26 31 00 00-0030	EA		7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22)	6,135.45	129.79
26 31 00 00-0031	EA		8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12)	5,942.78	129.79
26 31 00 00-0032 PVPowered Photovoltaic Inverters (26 31 00 00-0015)					
26 31 00 00-0033	EA		120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100)	4,963.49	129.79
26 31 00 00-0034	EA		240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000)	5,191.24	129.79
26 31 00 00-0035	EA		240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500)	5,735.92	129.79
26 31 00 00-0036	EA		240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500)	6,800.99	162.24
26 31 00 00-0037	EA		208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600)	8,291.92	194.68
26 31 00 00-0038	EA		240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800)	8,361.26	194.68
26 31 00 00-0039	EA		240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200)	8,822.72	194.68
26 31 00 00-0040	EA		208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	105,211.31	1,038.33
26 31 00 00-0041	EA		480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW)	105,350.59	1,038.33
26 31 00 00-0042	EA		208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	114,000.68	1,038.33
26 31 00 00-0043	EA		480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW)	105,682.97	1,038.33
26 31 00 00-0044 Solectria Photovoltaic Inverters (26 31 00 00-0015)					
26 31 00 00-0045	EA		208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI)	16,543.90	259.58
26 31 00 00-0046	EA		208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI)	16,543.90	259.58
26 31 00 00-0047	EA		208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI)	17,027.86	259.58
26 31 00 00-0048	EA		480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI)	17,027.86	259.58
26 31 00 00-0049	EA		208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	51,836.43	778.74
26 31 00 00-0050	EA		480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI)	49,416.59	778.74
26 31 00 00-0051	EA		208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	56,676.12	778.74
26 31 00 00-0052	EA		480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI)	55,331.76	778.74
26 31 00 00-0053	EA		208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	60,171.45	778.74
26 31 00 00-0054	EA		480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI)	57,482.73	778.74
26 31 00 00-0055	EA		208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	63,379.33	1,038.33
26 31 00 00-0056	EA		480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI)	60,421.74	1,038.33
26 31 00 00-0057	EA		208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	65,799.17	1,038.33
26 31 00 00-0058	EA		480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI)	62,303.84	1,038.33
26 31 00 00-0059 Xantrex Photovoltaic Inverters (26 31 00 00-0015)					
26 31 00 00-0060	EA		0.6 KW Photovoltaic Inverter (Xantrex 806-1206)	691.83	32.45
26 31 00 00-0061	EA		1 KW Photovoltaic Inverter (Xantrex 806-1210)	754.11	32.45
26 31 00 00-0062	EA		2 KW Photovoltaic Inverter (Xantrex 806-1220)	1,211.74	32.45
26 31 00 00-0063 Photovoltaic DC-DC Converters (26 31)					
26 31 00 00-0064	EA		15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20)	406.88	48.67
			Note: Hazardous locations.		
26 31 00 00-0065	EA		20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23)	271.46	48.67
26 31 00 00-0066	EA		60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60)	755.12	48.67
26 31 00 00-0067 Photovoltaic Combiner Boxes (26 31)					
26 31 00 00-0068 Midnight Solar Photovoltaic Combiner Boxes (26 31 00 00-0067)					
26 31 00 00-0069	EA		3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3)	487.93	129.79
26 31 00 00-0070	EA		6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6)	475.39	129.79
26 31 00 00-0071	EA		12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12)	756.35	194.68
26 31 00 00-0072	EA		6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250)	760.74	194.68
26 31 00 00-0073	EA		16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16)	1,167.55	194.68
26 31 00 00-0074 SMA Photovoltaic Combiner Boxes (26 31 00 00-0067)					
26 31 00 00-0075	EA		6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6)	1,079.85	129.79
26 31 00 00-0076	EA		12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12)	1,293.57	129.79
26 31 00 00-0077	EA		28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28)	2,505.46	259.58
26 31 00 00-0078	EA		52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52)	5,759.46	259.58
26 31 00 00-0079	EA		4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch)	964.19	129.79



Electrical		26
Facility Electrical Power Generating and Storing Equipment		26 30
Photovoltaic Collectors		26 31

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0080	Photovoltaic Charge Controller (26 31)		
26 31 00 00-0081	EA 35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35).....	324.66	48.67
26 31 00 00-0082	EA 40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40).....	433.48	48.67
26 31 00 00-0083	EA 60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60).....	506.03	48.67
26 31 00 00-0084	EA Remote Digital Meter For Xantrex C-35, 40 And 60	387.54	48.67
26 31 00 00-0085	EA MPPT Charge Controller (Xantrex XW SCC)	1,343.66	64.89
26 31 00 00-0086	Photovoltaic Batteries (26 31)		
26 31 00 00-0087	Concorde Photovoltaic Batteries (26 31 00 00-0086)		
26 31 00 00-0088	EA 34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T).....	299.87	19.47
26 31 00 00-0089	EA 45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T).....	378.08	25.96
26 31 00 00-0090	EA 49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T).....	409.71	25.96
26 31 00 00-0091	EA 56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T).....	469.26	38.94
26 31 00 00-0092	EA 69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T).....	534.49	38.94
26 31 00 00-0093	EA 89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T).....	634.45	45.43
26 31 00 00-0094	EA 104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T).....	727.63	51.92
26 31 00 00-0095	EA 108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T).....	719.19	51.92
26 31 00 00-0096	EA 210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T).....	1,319.22	61.65
26 31 00 00-0097	EA 255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T).....	1,525.75	64.89
26 31 00 00-0098	Deka Photovoltaic Batteries (26 31 00 00-0086)		
26 31 00 00-0099	EA 31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1).....	314.12	32.52
26 31 00 00-0100	EA 50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF).....	432.62	32.52
26 31 00 00-0101	EA 74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24).....	638.18	32.52
26 31 00 00-0102	EA 86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27).....	730.07	32.52
26 31 00 00-0103	EA 98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31).....	732.49	32.52
26 31 00 00-0104	EA 183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D).....	1,419.29	32.52
26 31 00 00-0105	EA 225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D).....	1,641.77	32.52
26 31 00 00-0106	Battery Enclosures (26 31 00 00-0086)		
26 31 00 00-0107	EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010).....	355.09	32.45
26 31 00 00-0108	EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC).....	1,740.92	32.52
26 31 00 00-0109	EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL).....	1,636.94	32.52
26 31 00 00-0110	EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC).....	2,181.05	32.52
26 31 00 00-0111	EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1).....	971.90	32.52
26 31 00 00-0112	EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP).....	2,285.04	32.52
26 31 00 00-0113	Photovoltaic System Monitoring (26 31)		
26 31 00 00-0114	EA Solar Inverter Monitor (Xantrex 864-0203).....	749.36	64.89
26 31 00 00-0115	EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox).....	1,550.33	32.45
26 31 00 00-0116	EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox).....	1,295.27	32.45
26 31 00 00-0117	EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA).....	238.57	32.45
26 31 00 00-0118	EA Wind Sensor Accessory For Sunny SensorBox (SMA).....	589.95	64.89
26 31 00 00-0119	EA Sunny Boy Control with RS485 (SMA).....	1,524.94	32.45
26 31 00 00-0120	EA RS 485 Module (SMA).....	346.36	32.45
26 31 00 00-0121	EA RS 232 Module (SMA).....	355.09	32.45
26 31 00 00-0122	EA Wireless Monitor with Bluetooth (SMA Sunny Beam).....	665.95	
26 31 00 00-0123	EA Bluetooth Piggy-Back Computer Card (SMA).....	359.79	32.45
26 31 00 00-0124	EA RS485-N Communication Computer Card (SMA).....	357.36	32.45
26 31 00 00-0125	EA Bluetooth Repeater (SMA).....	675.42	32.45
26 31 00 00-0126	EA Sunny Boy PC Service Cable (SMA).....	321.00	9.73
26 31 00 00-0127	EA Integrated Revenue Grade Meter, Option (PVPowered).....	6,202.94	
26 31 00 00-0128	EA Data Monitoring Module (PVPowered PVM1010).....	674.00	32.45
26 31 00 00-0129	EA Wireless IG Personal Display (Fronius 4,240,108).....	676.56	
26 31 00 00-0130	EA DatCom Power Supply (Fronius 43,0001,2311).....	220.81	
26 31 00 00-0131	EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z).....	400.98	32.45
26 31 00 00-0132	EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z).....	339.07	32.45
26 31 00 00-0133	EA Datalogger Pro Box (Fronius 4,240,102).....	1,335.18	32.45
26 31 00 00-0134	EA Datalogger Easy Box (Fronius 4,240,103).....	868.09	32.45
26 31 00 00-0135	EA Datalogger Interface Box (Fronius 4,240,105).....	1,507.55	32.45
26 31 00 00-0136	EA Datalogger Web (Fronius 4,240,122).....	2,591.41	32.45
26 31 00 00-0137	EA Interface Box (Fronius 4,240,109).....	695.35	32.45
26 31 00 00-0138	EA Interface Card (Fronius 4,240,009,Z).....	495.79	32.45
26 31 00 00-0139	EA Interface Card Easy (Fronius 4,240,013,Z).....	326.51	32.45
26 31 00 00-0140	EA Sensor Box (Fronius 4,240,104).....	1,394.52	32.45
26 31 00 00-0141	EA Ambient Temperature Sensor (Fronius 43,0001,1188).....	153.53	32.45
26 31 00 00-0142	EA Irradiance Sensor (Fronius 43,0001,1188).....	483.51	32.45
26 31 00 00-0143	EA Module Temperature Sensor (Fronius 43,0001,1190).....	538.63	32.45
26 31 00 00-0144	EA Wind Speed Sensor (Fronius 42,0411,0027).....	283.18	64.89
26 31 00 00-0145	Photovoltaic System Accessories (26 31)		
26 31 00 00-0146	EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	1,027.54	64.89

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0147 EA Line Communication Filter (Enphase LCF).....	2,240.17	129.79
26 31 00 00-0148 EA 15 Meter RS 485 Communication Cable (SMA)	171.82	9.73
26 31 00 00-0149 EA 15 Meter RS 232 Communication Cable (SMA)	258.88	9.73
26 31 00 00-0150 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	39.44	3.21
26 31 00 00-0151 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	42.36	3.21
26 31 00 00-0152 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	44.01	3.21
26 31 00 00-0153 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	48.58	3.21
26 31 00 00-0154 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	55.44	3.21
26 31 00 00-0155 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	88.03	6.42
26 31 00 00-0156 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	109.31	6.42
26 31 00 00-0157 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	143.46	9.64
26 31 00 00-0158 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	49.72	3.21
26 31 00 00-0159 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	69.15	3.21
26 31 00 00-0160 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	101.74	6.42
26 31 00 00-0161 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	136.02	6.42
26 31 00 00-0162 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	220.62	12.85
26 31 00 00-0163 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	230.30	12.85
26 31 00 00-0164 EA Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....	4,103.99	350.44
Note: Tamper proof enclosure.		
26 31 00 00-0165 Photovoltaic Mounting Systems (26 31)		
26 31 00 00-0166 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard)	14.00	3.24
26 31 00 00-0167 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229)	40.03	16.22
26 31 00 00-0168 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216)	50.80	16.22
26 31 00 00-0169 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046).....	26.86	6.49
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0170 EA Mounting Rail Grounding Clip (UNIRAC 980006).....	12.74	4.87
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0171 EA Mounting Rail Grounding Lugs (UNIRAC 980012)	27.36	6.49
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		
26 31 00 00-0172 EA Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002)	7.33	2.17
Note: Four for each row of modules you plan to mount.		
26 31 00 00-0173 EA Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008).....	7.68	2.17
Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.		
26 31 00 00-0174 EA Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	19.01	6.49
26 31 00 00-0175 EA 12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121).....	113.30	32.45
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0176 EA 30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122).....	125.49	32.45
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0177 EA 44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123).....	135.31	32.45
Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.		
26 31 00 00-0178 EA 12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107).....	166.41	48.67
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0179 EA 44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108).....	202.97	48.67
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0180 EA 72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109).....	236.15	48.67
Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0181 EA 18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111).....	259.80	64.89
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0182 EA 64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112).....	347.15	64.89
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0183 EA 104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110).....	487.87	97.34
Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.		
26 31 00 00-0184 EA Ballasted Photovoltaic Module Frame (UNIRAC 310351).....	238.18	
Note: Excludes ballast.		
26 31 00 00-0185 EA Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355).....	443.92	
Note: Excludes ballast.		
26 31 00 00-0186 EA 3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	88.96	32.45
26 31 00 00-0187 EA 4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	90.08	32.45
26 31 00 00-0188 EA 6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	91.10	32.45
26 31 00 00-0189 EA 7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	93.67	32.45
26 31 00 00-0190 EA 3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	82.16	32.45
26 31 00 00-0191 EA 4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	83.45	32.45
26 31 00 00-0192 EA 6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	87.24	32.45
26 31 00 00-0193 EA 7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	86.16	32.45
26 31 00 00-0194 EA 3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390)	171.15	48.67
26 31 00 00-0195 EA 4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391)	171.93	48.67
26 31 00 00-0196 EA 7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394)	174.23	48.67
26 31 00 00-0197 EA Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....	171.82	48.67
26 31 00 00-0198 EA Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	34.25	6.49
26 31 00 00-0199 EA Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161)	22.49	6.49
26 31 00 00-0200 EA 1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....	42.76	9.73



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Photovoltaic Collectors	26 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0201	EA		3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100)	44.52	9.73
26 31 00 00-0202	EA		Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100)..... Note: Mid or end clamp.	12.45	2.17
26 31 00 00-0203	EA		Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024)	56.88	6.49
26 31 00 00-0204	EA		Photovoltaic Module Wire Clip (UNIRAC 908002S-0100)	2.91	

26 32 Packaged Generator Assemblies (26 30)

26 32 13 Engine Generators (26 32)

26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)

See CSI section 01 22 23 00-0771 for fuel reimbursement for commissioning.

26 32 13 13-0001 Diesel Generator Sets (Cummins) (26 32 13 13)

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0750 for loadbank rental, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002	EA	20 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	34,653.62	1,124.10
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
		For Single Phase, Add	1,292.65	
26 32 13 13-0003	EA	25 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	36,446.80	1,187.33
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
26 32 13 13-0004	EA	30 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	38,266.28	1,254.07
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
		For Single Phase, Add	1,425.41	
26 32 13 13-0005	EA	35 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	39,052.02	1,384.05
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
26 32 13 13-0006	EA	40 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	39,851.94	1,517.54
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
26 32 13 13-0007	EA	50 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	46,758.82	1,742.35
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
26 32 13 13-0008	EA	60 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	50,382.76	2,002.30
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
26 32 13 13-0009	EA	80 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	59,190.64	2,346.56
		For Weather Resistant Steel Diesel Generator Enclosure, Add	5,129.38	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	12,070.42	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	16,093.89	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	13,060.29	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,944.48	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,259.31	
26 32 13 13-0010	EA	100 KW, 3 Phase, Standby Diesel Generator Set (Cummins)	63,625.16	2,725.94
		For Weather Resistant Steel Diesel Generator Enclosure, Add	7,780.18	
		For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,454.63	
		For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	24,606.17	
		For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,756.59	
		For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,144.88	
		For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	26,859.84	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0011 EA 125 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	65,091.29	3,231.79
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,780.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,756.59	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,144.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	26,859.84	
26 32 13 13-0012 EA 150 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	71,958.95	3,561.99
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,780.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,756.59	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,144.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	26,859.84	
26 32 13 13-0013 EA 175 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	75,603.65	3,976.50
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,780.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,756.59	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,144.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	26,859.84	
26 32 13 13-0014 EA 200 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	80,347.15	4,355.88
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,780.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,756.59	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,144.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	26,859.84	
26 32 13 13-0015 EA 230 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	86,609.55	4,601.79
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,780.18	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,756.59	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	20,144.88	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	26,859.84	
26 32 13 13-0016 EA 250 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	90,267.78	4,791.48
For Weather Resistant Steel Diesel Generator Enclosure, Add	50,456.40	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	55,869.88	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	74,493.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	61,196.04	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	68,293.77	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,058.36	
26 32 13 13-0017 EA 275 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	98,225.09	5,051.42
For Weather Resistant Steel Diesel Generator Enclosure, Add	50,456.40	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	55,869.88	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	74,493.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	61,196.04	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	68,293.77	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,058.36	
26 32 13 13-0018 EA 300 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	100,369.62	5,276.25
For Weather Resistant Steel Diesel Generator Enclosure, Add	50,456.40	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	55,869.88	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	74,493.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	61,196.04	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	68,293.77	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,058.36	
26 32 13 13-0019 EA 350 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	113,129.46	5,901.52
For Weather Resistant Steel Diesel Generator Enclosure, Add	50,456.40	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	55,869.88	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	74,493.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	61,196.04	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	68,293.77	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,058.36	
26 32 13 13-0020 EA 400 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	121,785.06	6,463.57
For Weather Resistant Steel Diesel Generator Enclosure, Add	50,456.40	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	55,869.88	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	74,493.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	61,196.04	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	68,293.77	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,058.36	
26 32 13 13-0021 EA 450 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	137,470.13	6,962.40
For Weather Resistant Steel Diesel Generator Enclosure, Add	50,456.40	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	55,869.88	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	74,493.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	61,196.04	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	68,293.77	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,058.36	
26 32 13 13-0022 EA 500 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	144,580.04	7,419.06
For Weather Resistant Steel Diesel Generator Enclosure, Add	50,456.40	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	55,869.88	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	74,493.17	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	61,196.04	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	68,293.77	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	91,058.36	



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Packaged Generator Assemblies		26 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0023 EA 600 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	209,999.96	8,170.80
For Weather Resistant Steel Diesel Generator Enclosure, Add	103,073.17	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	124,124.18	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	165,498.90	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	121,234.12	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	144,602.80	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	192,803.73	
26 32 13 13-0024 EA 750 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	240,477.73	8,985.77
For Weather Resistant Steel Diesel Generator Enclosure, Add	103,073.17	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	124,124.18	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	165,498.90	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	121,234.12	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	144,602.80	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	192,803.73	
26 32 13 13-0025 EA 800 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	251,111.04	9,182.49
For Weather Resistant Steel Diesel Generator Enclosure, Add	103,073.17	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	124,124.18	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	165,498.90	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	121,234.12	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	144,602.80	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	192,803.73	
26 32 13 13-0026 EA 900 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	306,264.67	9,899.10
For Weather Resistant Steel Diesel Generator Enclosure, Add	103,073.17	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	124,124.18	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	165,498.90	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	121,234.12	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	144,602.80	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	192,803.73	
26 32 13 13-0027 EA 1,000 KW, 3 Phase, Standby Diesel Generator Set (Cummins).....	342,114.45	10,538.43
For Weather Resistant Steel Diesel Generator Enclosure, Add	103,073.17	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	124,124.18	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	165,498.90	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	121,234.12	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	144,602.80	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	192,803.73	
26 32 13 13-0028 Diesel Particulate Filters (26 32 13 13)		
26 32 13 13-0029 EA Up To 50 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure	37,300.29	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0030 EA >50 To 75 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	48,761.21	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0031 EA >75 To 100 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	59,082.07	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0032 EA >100 To 200 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	72,475.65	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0033 EA >200 To 500 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	85,192.95	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 13-0034 EA >500 To 1,000 KW Diesel Generator, Active Diesel Particulate Filter With Stainless Steel Enclosure.....	106,424.90	
Note: Includes 304 stainless steel housing, CARB Level 3+ Verified, and 4KW rated. Requires 480 volt, 3 phase power to a supplied 20 amp CB.		
26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)		
26 32 13 19-0001 Natural Gas Or Propane Generator Sets (Cummins) (26 32 13 19)		
Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0750 for loadbank rental, 01 22 23 00-0771 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002 EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA)	15,471.09	941.43
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	5,052.81	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	8,383.09	
26 32 13 19-0003 EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB)	17,482.69	1,124.10
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	5,052.81	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	8,383.09	
26 32 13 19-0004 EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC)	20,176.81	1,250.57
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	5,052.81	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	8,383.09	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0005 EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA)	22,886.75	1,384.05
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,292.39	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0006 EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB)	25,683.05	1,517.54
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,292.39	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0007 EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC)	27,834.35	1,636.97
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,292.39	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0008 EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE)	30,477.43	2,002.30
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,292.39	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0009 EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF)	32,714.25	2,241.18
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	4,665.25	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	12,070.42	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	16,093.89	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	14,292.39	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0010 EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG)	42,879.83	2,395.74
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,502.70	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,756.59	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0011 EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH)	51,648.40	2,697.84
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,502.70	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,756.59	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0012 EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLA)	59,169.26	3,231.79
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,502.70	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,756.59	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0013 EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGLB)	70,294.23	3,561.99
For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add	8,502.70	
For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add	18,454.63	
For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add	24,606.17	
For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add	16,756.59	
For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add	23,988.92	
26 32 13 19-0014 EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA)	113,502.77	9,474.61
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	45,374.87	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	50,228.52	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	66,971.36	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	49,611.87	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	74,447.71	
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB)	128,826.37	4,278.60
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	45,374.87	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	50,228.52	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	66,971.36	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	49,611.87	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	74,447.71	
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC)	138,553.48	4,791.48
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	45,374.87	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	50,228.52	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	66,971.36	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	49,611.87	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	74,447.71	
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA)	179,083.19	5,276.25
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	45,374.87	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	50,228.52	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	66,971.36	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	49,611.87	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	74,447.71	
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB)	192,251.79	5,901.52
For Weather Resistant Steel Natural Gas Generator Enclosure, Add	45,374.87	
For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add	50,228.52	
For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add	66,971.36	
For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add	49,611.87	
For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	74,447.71	



Electrical		26
Facility Electrical Power Generating and Storing Equipment		26 30
Packaged Generator Assemblies		26 32

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 32 13 19-0019	EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	269,950.01 99,077.80 105,269.42 140,359.22 112,535.23 159,051.30	6,962.40	
26 32 13 19-0020	EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	345,088.36 99,077.80 105,269.42 140,359.22 112,535.23 159,051.30	7,419.06	
26 32 13 19-0021	EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	386,089.48 99,077.80 105,269.42 140,359.22 112,535.23 159,051.30	7,819.52	
26 32 13 19-0022	EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	439,686.42 99,077.80 105,269.42 140,359.22 112,535.23 159,051.30	8,170.80	
26 32 13 19-0023	EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	459,730.62 99,077.80 105,269.42 140,359.22 112,535.23 159,051.30	8,479.93	
26 32 13 19-0024	EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC)..... For Weather Resistant Steel Natural Gas Generator Enclosure, Add For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add	486,274.13 99,077.80 105,269.42 140,359.22 112,535.23 159,051.30	9,063.05	
26 32 13 19-0025	Small Natural Gas Or Propane Air-Cooled Generator Sets (26 32 13 19)			
26 32 13 19-0026	EA 7.5 KW Natural Gas Or Propane Air-Cooled Generator Set..... Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	5,249.79	598.78	
26 32 13 19-0027	EA 10 KW Natural Gas Or Propane Air-Cooled Generator Set..... Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,618.42	665.31	
26 32 13 19-0028	EA 14 KW Natural Gas Or Propane Air-Cooled Generator Set..... Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	7,632.78	731.86	
26 32 29	Rotary Converters (26 32)			
26 32 29 00-0001	60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output (26 32 29)			
26 32 29 00-0002	EA 3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	10,140.24	259.58	
26 32 29 00-0003	EA 5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	12,353.33	259.58	
26 32 29 00-0004	EA 7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,367.48	259.58	
26 32 29 00-0005	EA 10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,496.30	259.58	
26 32 29 00-0006	EA 15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	18,310.62	324.47	
26 32 29 00-0007	EA 20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	19,831.22	324.47	
26 32 29 00-0008	EA 25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	20,766.30	324.47	
26 32 29 00-0009	EA 40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,286.62	428.31	
26 32 29 00-0010	EA 50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	28,105.67	428.31	
26 32 29 00-0011	60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output (26 32 29)			
26 32 29 00-0012	EA 3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	11,742.40	259.58	
26 32 29 00-0013	EA 5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	14,004.04	259.58	
26 32 29 00-0014	EA 7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,018.88	259.58	
26 32 29 00-0015	EA 10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	16,463.61	259.58	
26 32 29 00-0016	EA 15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	18,647.08	324.47	
26 32 29 00-0017	EA 20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	20,508.50	324.47	
26 32 29 00-0018	EA 25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	21,185.78	324.47	
26 32 29 00-0019	EA 40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	25,186.12	428.31	
26 32 29 00-0020	EA 50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion	26,719.83	428.31	
26 32 29 00-0021	460 Volt 3 Phase AC Motor Drive 250 Volt DC (26 32 29)			
26 32 29 00-0022	EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	29,315.28	4,917.94	
26 32 29 00-0023	EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	32,481.99	4,917.94	
26 32 29 00-0024	EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	36,929.33	7,025.63	
26 32 29 00-0025	EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	43,123.06	7,025.63	
26 32 29 00-0026	EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	48,970.11	7,025.63	
26 32 29 00-0027	EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	57,449.93	10,538.43	
26 32 29 00-0028	EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion	69,578.97	10,538.43	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 32 Packaged Generator Assemblies**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 32 29 00-0029	4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC ^(26 32 29)		
26 32 29 00-0030	EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	101,925.96	14,051.25
26 32 29 00-0031	EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	111,053.03	14,051.25
26 32 29 00-0032	EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	133,616.02	18,266.62
26 32 29 00-0033	EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	151,870.23	22,200.97
26 32 29 00-0034	EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	179,967.99	22,200.97
26 32 29 00-0035	EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	255,316.42	33,160.94
26 32 29 00-0036	EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	264,057.00	33,160.94
26 32 29 00-0037	EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion	304,131.41	38,640.93

26 33 Battery Equipment ^(26 30)**26 33 13 Batteries ^(26 33)**

26 33 13 00-0001	Standby Batteries ^(26 33 13)		
26 33 13 00-0002	EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery	1,242.15	32.52
26 33 13 00-0003	EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket	1,341.90	32.52
26 33 13 00-0004	EA 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery	372.17	32.52
26 33 13 00-0005	EA 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery	338.39	32.52
26 33 13 00-0006	EA 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery	579.25	32.52
26 33 13 00-0007	EA 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery	672.58	32.52

26 33 43 Battery Chargers ^(26 33)

26 33 43 00-0001	Solid State Chargers, Single Phase ^(26 33 43)		
	Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002	EA Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt	3,541.01	741.26
26 33 43 00-0003	EA Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt	4,134.63	741.26
26 33 43 00-0004	EA Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt	4,551.75	741.26
26 33 43 00-0005	EA Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt	4,815.50	877.65

26 33 53 Static Uninterruptible Power Supply ^(26 33)

26 33 53 00-0001	Single Phase, Uninterruptible Power Supply Systems (UPS) ^(26 33 53)		
26 33 53 00-0002	Single Phase, Uninterruptible Power Supply Systems (UPS) ^(26 33 53 00-0001)		
26 33 53 00-0003	120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) ^(26 33 53 00-0002)		
	Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004	EA 0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120)	1,125.97	128.49
	Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005	EA 0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120)	1,343.51	149.90
	Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006	EA 1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120)	1,650.52	171.32
	Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007	EA 1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120)	2,009.53	192.74
	Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008	EA 2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120)	2,565.13	214.15
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0009	EA 3 kVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120)	4,095.52	256.99
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0010	208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) ^(26 33 53 00-0002)		
	Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011	EA 3 kVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208)	4,022.04	256.99
	Note: Includes 4 minutes of battery backup at full load.		
26 33 53 00-0012	120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) ^(26 33 53 00-0002)		
	Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013	EA 5 kVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208)	6,182.54	342.65
	Note: Includes 5 minutes of battery backup at full load.		



Electrical		26
Facility Electrical Power Generating and Storing Equipment		26 30
Battery Equipment		26 33

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 33 53 00-0014	EA	6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208) Note: Includes 4 minutes of battery backup at full load.	6,765.46	385.47	
26 33 53 00-0015	EA	8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208) Note: Includes 7 minutes of battery backup at full load.	10,073.49	471.14	
26 33 53 00-0016	EA	10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208) Note: Includes 4-1/2 minutes of battery backup at full load.	11,568.36	513.97	
26 33 53 00-0017		230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002) Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.			
26 33 53 00-0018	EA	0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230) Note: Includes 11 minutes of battery backup at full load.	1,343.51	149.90	
26 33 53 00-0019	EA	1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230) Note: Includes 6 minutes of battery backup at full load.	1,650.52	171.32	
26 33 53 00-0020	EA	1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230) Note: Includes 4 minutes of battery backup at full load.	2,031.24	192.74	
26 33 53 00-0021	EA	2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230) Note: Includes 4 minutes of battery backup at full load.	2,570.36	214.15	
26 33 53 00-0022	EA	3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230) Note: Includes 4 minutes of battery backup at full load.	4,111.83	256.99	
26 33 53 00-0023	EA	5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230) Note: Includes 9 minutes of battery backup at full load.	5,937.16	342.65	
26 33 53 00-0024	EA	6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230) Note: Includes 6 minutes of battery backup at full load.	7,275.63	385.47	
26 33 53 00-0025	EA	10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230) Note: Includes 3 minutes of battery backup at full load.	11,217.58	513.97	
26 33 53 00-0026		Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)			
26 33 53 00-0027	EA	External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT) Note: Rack mount or tower configuration.	722.62	38.94	
26 33 53 00-0028	EA	External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT) Note: Rack mount or tower configuration.	943.35	38.94	
26 33 53 00-0029	EA	External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT) Note: Rack mount or tower configuration.	918.78	38.94	
26 33 53 00-0030	EA	External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT) Note: Rack mount or tower configuration.	627.54	38.94	
26 33 53 00-0031	EA	Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT)	964.52	128.49	
26 33 53 00-0032	EA	Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT)	1,094.30	171.32	
26 33 53 00-0033		Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)			
26 33 53 00-0034		208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery (26 33 53 00-0033) Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.			
26 33 53 00-0035	EA	10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS)	43,141.71	513.97	
26 33 53 00-0036	EA	15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS)	47,779.13	685.29	
26 33 53 00-0037	EA	20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS)	53,420.98	856.61	
26 33 53 00-0038	EA	30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS)	57,957.95	1,027.94	
26 33 53 00-0039	EA	40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS)	69,726.94	1,199.26	
26 33 53 00-0040		208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033) Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.			
26 33 53 00-0041	EA	60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS)	94,633.95	2,044.20	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0042	EA	80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	102,976.84	2,530.92
26 33 53 00-0043	EA	100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	113,917.46	2,952.73
26 33 53 00-0044	EA	120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	140,581.68	3,342.11
26 33 53 00-0045	EA	140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	145,997.82	3,731.47
26 33 53 00-0046	EA	160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	151,752.53	4,120.85
26 33 53 00-0047	EA	180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	158,712.58	4,510.22
26 33 53 00-0048	EA	200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	165,672.63	4,899.59
26 33 53 00-0049 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery (26 33 53 00-0033)				
Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.				
26 33 53 00-0050	EA	50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	88,327.63	1,687.27
26 33 53 00-0051	EA	100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	114,520.13	2,965.71
26 33 53 00-0052	EA	150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	156,430.27	3,426.47
26 33 53 00-0053	EA	200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	184,199.37	3,763.92
26 33 53 00-0054	EA	250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	215,383.60	4,153.30
26 33 53 00-0055 Optional Accessories For Three Phase, Uninterruptible Power Supply Systems (26 33 53 00-0033)				
26 33 53 00-0056	EA	Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	652.56	64.89
26 33 53 00-0057	EA	Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	1,039.82	64.89
26 33 53 00-0058	EA	Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	2,031.89	129.79
26 33 53 00-0059	EA	Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	6,384.68	519.16
26 33 53 00-0060	EA	12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	656.50	64.89
26 33 53 00-0061	EA	12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	358.48	64.89
26 33 53 00-0062	EA	12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	401.97	64.89
26 33 53 00-0063	EA	12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	445.46	64.89
26 33 53 00-0064	EA	12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	523.73	64.89
26 33 53 00-0065	EA	12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	549.83	64.89
26 33 53 00-0066	EA	12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	684.64	64.89
26 33 53 00-0067	EA	12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	717.26	64.89
26 33 53 00-0068 Other Uninterruptable Power Supply Equipment (26 33 53)				
26 33 53 00-0069	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	6,429.11	118.60
26 33 53 00-0070	EA	Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	7,733.89	237.20
26 33 53 00-0071	EA	1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	33.45	7.12
26 33 53 00-0072	EA	2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	60.49	8.89
26 33 53 00-0073	EA	2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	113.87	8.89
26 33 53 00-0074	EA	3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	166.77	11.86
26 33 53 00-0075	EA	3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	237.23	11.86
26 33 53 00-0076	EA	Uninterrupted Power Supply Remote Status Panel.....	4,400.72	118.60
26 33 53 00-0077	EA	Uninterrupted Power Supply Remote Contact Board.....	1,458.96	88.95
26 35 Power Filters and Conditioners (26 30)				
26 35 33 Power Factor Correction Equipment (26 35)				
26 35 33 16 Low-Voltage Power Factor Correction Equipment (26 35 33)				
26 35 33 16-0001 Power Factor Correction Capacitors (26 35 33 16)				
26 35 33 16-0002	EA	Power Factor Correction Capacitors, 2.0 KVAC.....	889.52	
26 35 33 16-0003	EA	Power Factor Correction Capacitors, 3.0 KVAC.....	985.17	
26 35 33 16-0004	EA	Power Factor Correction Capacitors, 4.0 KVAC.....	1,080.81	
26 35 33 16-0005	EA	Power Factor Correction Capacitors, 5.0 KVAC.....	1,172.64	
26 35 33 16-0006	EA	Power Factor Correction Capacitors, 7.5 KVAC.....	1,440.45	
26 35 33 16-0007	EA	Power Factor Correction Capacitors, 10.0 KVAC.....	1,759.91	
26 35 33 16-0008	EA	Power Factor Correction Capacitors, 15.0 KVAC.....	2,718.30	
26 35 33 16-0009	EA	Power Factor Correction Capacitors, 20.0 KVAC.....	3,301.74	



Electrical		26	26
Facility Electrical Power Generating and Storing Equipment		26 30	
Power Filters and Conditioners		26 35	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 35 33 16-0010	EA	Power Factor Correction Capacitors, 25.0 KVAC	4,265.87	
26 35 33 16-0011	EA	Power Factor Correction Capacitors, 30.0 KVAC	4,851.23	
26 35 33 16-0012	EA	Power Factor Correction Capacitors, 50.0 KVAC	8,512.61	
26 35 33 16-0013	EA	Power Factor Correction Capacitors, 75.0 KVAC	12,799.52	
26 35 33 16-0014	EA	Power Factor Correction Capacitors, 100.0 KVAC	17,067.31	
26 35 33 16-0015	EA	Power Factor Correction Capacitors, Fuse Kit.....	791.96	
26 35 43 Static-Frequency Converters (26 35)				
26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure (26 35 43)				
26 35 43 00-0002	EA	750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure	745.51	129.79
26 35 43 00-0003	EA	2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,296.89	155.75
26 35 43 00-0004	EA	3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,487.12	207.66
26 35 43 00-0005	EA	5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,041.47	259.58
26 35 43 00-0006	EA	7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,811.26	337.45
26 35 43 00-0007	EA	11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,632.22	415.33
26 35 43 00-0008	EA	15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,555.51	493.21
26 35 43 00-0009	EA	21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,555.20	558.10
26 35 43 00-0010	EA	29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,454.03	674.91
26 35 43 00-0011	EA	36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,390.31	759.27
26 35 43 00-0012	EA	44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	8,326.58	843.64
26 35 43 00-0013	EA	55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	10,340.04	1,018.85
26 35 43 00-0014	EA	74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	13,441.81	1,226.52
26 35 43 00-0015	EA	87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	17,044.13	1,492.59
26 35 43 00-0016	EA	110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	19,494.78	1,745.69
26 35 43 00-0017	EA	125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	25,116.49	1,946.86
26 35 43 00-0018	EA	165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	38,428.16	2,206.44
26 35 43 00-0019	EA	220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	57,368.53	2,466.02
26 35 53 Voltage Regulators (26 35)				
26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase (26 35 53)				
Note: For diesel motor generator sets mounted in switchgear cabinet.				
26 35 53 00-0002	EA	50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	7,607.12	2,063.67
26 35 53 00-0003	EA	75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	8,681.02	2,595.81
26 35 53 00-0004	EA	100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear	9,669.90	3,089.01
26 36 Transfer Switches (26 36)				
26 36 13 Manual Transfer Switches (26 36)				
26 36 13 00-0001 Fused Manual Transfer Switches (26 36 13)				
26 36 13 00-0002	EA	30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,454.69	227.13
26 36 13 00-0003	EA	60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,695.04	282.16
26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 13)				
26 36 13 00-0005	EA	40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	3,699.07	332.66
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0006	EA	70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	4,094.83	399.19
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0007	EA	125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	4,646.38	465.72
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0008	EA	150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	5,774.43	532.25
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0009	EA	225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	7,154.33	598.78
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0010	EA	260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	8,044.55	665.31
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0011	EA	300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	8,948.93	731.86
		For NEMA 3R Enclosure, Add	1,657.35	
		For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0012	EA	400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	10,513.88	798.39
		For NEMA 3R Enclosure, Add	1,657.35	
		For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0013	EA	600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	13,912.06	997.98
		For NEMA 3R Enclosure, Add	1,657.35	
		For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0014	EA	800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	15,642.71	1,197.57
		For NEMA 3R Enclosure, Add	2,036.56	
		For NEMA 12 Enclosure, Add	1,966.35	
26 36 13 00-0015	EA	1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	20,842.13	1,686.15
		For NEMA 3R Enclosure, Add	2,036.56	
		For NEMA 12 Enclosure, Add	1,966.35	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 36 23 Automatic Transfer Switches (26 36)

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)

26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23)

00-0001)

Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003	EA	100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	3,321.93	465.72
		For Level 2 Controller, Add	185.26	
		For Level 3 Controller, Add	382.48	
		For Level 4 Controller, Add	555.79	
26 36 23 00-0004	EA	225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	4,523.47	598.78
		For Level 2 Controller, Add	257.76	
		For Level 3 Controller, Add	532.14	
		For Level 4 Controller, Add	773.27	
26 36 23 00-0005	EA	400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	7,209.23	798.39
		For Level 2 Controller, Add	434.97	
		For Level 3 Controller, Add	898.00	
		For Level 4 Controller, Add	1,304.90	
26 36 23 00-0006	EA	600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire	11,761.68	997.98
		For Level 2 Controller, Add	756.84	
		For Level 3 Controller, Add	1,562.52	
		For Level 4 Controller, Add	2,270.53	

26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23)

00-0001)

26 36 23 00-0008	EA	40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40)	5,535.29	332.66
		For Level 2 Controller, Add	377.42	
		For Level 3 Controller, Add	779.20	
		For Level 4 Controller, Add	1,132.27	
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 4 Enclosure, Add	1,264.08	
		For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0009	EA	70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70)	6,388.16	399.19
		For Level 2 Controller, Add	433.21	
		For Level 3 Controller, Add	894.36	
		For Level 4 Controller, Add	1,299.62	
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 4 Enclosure, Add	1,264.08	
		For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0010	EA	100 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC100)	6,703.21	432.45
		For Level 2 Controller, Add	452.47	
		For Level 3 Controller, Add	934.13	
		For Level 4 Controller, Add	1,357.40	
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 4 Enclosure, Add	1,264.08	
		For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0011	EA	125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125)	7,018.26	465.72
		For Level 2 Controller, Add	471.73	
		For Level 3 Controller, Add	973.89	
		For Level 4 Controller, Add	1,415.18	
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 4 Enclosure, Add	1,264.08	
		For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0012	EA	150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150)	8,352.72	532.25
		For Level 2 Controller, Add	564.84	
		For Level 3 Controller, Add	1,166.11	
		For Level 4 Controller, Add	1,694.51	
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 4 Enclosure, Add	1,825.89	
		For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0013	EA	225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225)	9,539.10	598.78
		For Level 2 Controller, Add	646.47	
		For Level 3 Controller, Add	1,334.64	
		For Level 4 Controller, Add	1,939.41	
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 4 Enclosure, Add	1,825.89	
		For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0014	EA	260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260)	10,525.89	665.31
		For Level 2 Controller, Add	712.63	
		For Level 3 Controller, Add	1,471.24	
		For Level 4 Controller, Add	2,137.90	
		For NEMA 3R Enclosure, Add	1,404.54	
		For NEMA 4 Enclosure, Add	1,825.89	
		For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0015	EA	300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300)	10,992.46	731.86
		For Level 2 Controller, Add	738.48	
		For Level 3 Controller, Add	1,524.60	
		For Level 4 Controller, Add	2,215.44	
		For NEMA 3R Enclosure, Add	1,657.35	
		For NEMA 4 Enclosure, Add	1,966.35	
		For NEMA 12 Enclosure, Add	1,404.54	



		Electrical	26
		Facility Electrical Power Generating and Storing Equipment	26 30
		Transfer Switches	26 36

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0016	EA		400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400)	12,436.37	798.39
			For Level 2 Controller, Add	840.07	
			For Level 3 Controller, Add	1,734.34	
			For Level 4 Controller, Add	2,520.21	
			For NEMA 3R Enclosure, Add	1,657.35	
			For NEMA 4 Enclosure, Add	1,966.35	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0017	EA		600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600)	17,059.12	997.98
			For Level 2 Controller, Add	1,167.40	
			For Level 3 Controller, Add	2,410.11	
			For Level 4 Controller, Add	3,502.19	
			For NEMA 3R Enclosure, Add	1,657.35	
			For NEMA 4 Enclosure, Add	1,966.35	
			For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0018	EA		800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800)	19,118.13	1,197.57
			For Level 2 Controller, Add	1,296.03	
			For Level 3 Controller, Add	2,675.68	
			For Level 4 Controller, Add	3,888.09	
			For NEMA 3R Enclosure, Add	2,036.56	
			For NEMA 4 Enclosure, Add	2,247.26	
			For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0019	EA		1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000)	24,904.72	1,686.15
			For Level 2 Controller, Add	1,668.76	
			For Level 3 Controller, Add	3,445.19	
			For Level 4 Controller, Add	5,006.29	
			For NEMA 3R Enclosure, Add	2,036.56	
			For NEMA 4 Enclosure, Add	2,247.26	
			For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0020	EA		1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200)	32,386.24	1,826.66
			For Level 2 Controller, Add	2,226.80	
			For Level 3 Controller, Add	4,597.27	
			For Level 4 Controller, Add	6,680.40	
			For NEMA 3R Enclosure, Add	4,494.50	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	2,106.80	
26 36 23 00-0021	EA		1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600)	34,499.95	2,107.69
			For Level 2 Controller, Add	2,347.05	
			For Level 3 Controller, Add	4,845.53	
			For Level 4 Controller, Add	7,041.16	
			For NEMA 3R Enclosure, Add	7,303.55	
			For NEMA 4 Enclosure, Add	8,988.98	
			For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0022	EA		2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000)	39,450.14	2,388.71
			For Level 2 Controller, Add	2,687.14	
			For Level 3 Controller, Add	5,547.64	
			For Level 4 Controller, Add	8,061.41	
			For NEMA 3R Enclosure, Add	7,303.55	
			For NEMA 4 Enclosure, Add	8,988.98	
			For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0023	EA		3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000)	47,634.17	2,950.77
			For Level 2 Controller, Add	3,234.28	
			For Level 3 Controller, Add	6,677.22	
			For Level 4 Controller, Add	9,702.84	
			For NEMA 3R Enclosure, Add	7,303.55	
26 36 23 00-0024	EA		4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000)	82,962.62	3,512.81
			For Level 2 Controller, Add	5,885.12	
			For Level 3 Controller, Add	12,149.92	
			For Level 4 Controller, Add	17,655.35	
			For NEMA 3R Enclosure, Add	13,539.65	
26 36 23 00-0025 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)					
26 36 23 00-0026	EA		150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150).....	27,379.25	2,528.21
			For NEMA 3R Enclosure, Add	2,457.94	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	1,334.32	
			For Level 2 Controller, Add	1,730.02	
			For Level 3 Controller, Add	3,571.65	
			For Level 4 Controller, Add	5,190.06	
26 36 23 00-0027	EA		225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225).....	28,575.32	2,661.28
			For NEMA 3R Enclosure, Add	2,457.94	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	1,334.32	
			For Level 2 Controller, Add	1,802.09	
			For Level 3 Controller, Add	3,720.44	
			For Level 4 Controller, Add	5,406.27	
26 36 23 00-0028	EA		260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260).....	29,954.08	2,794.34
			For NEMA 3R Enclosure, Add	2,457.94	
			For NEMA 4 Enclosure, Add	2,528.16	
			For NEMA 12 Enclosure, Add	1,334.32	
			For Level 2 Controller, Add	1,888.32	
			For Level 3 Controller, Add	3,898.46	
			For Level 4 Controller, Add	5,664.96	

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0029 EA 300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300).....	33,497.87	2,860.87
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	2,152.65	
For Level 3 Controller, Add	4,444.18	
For Level 4 Controller, Add	6,457.95	
26 36 23 00-0030 EA 400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400).....	38,757.30	2,927.40
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
For Level 2 Controller, Add	2,549.94	
For Level 3 Controller, Add	5,264.40	
For Level 4 Controller, Add	7,649.83	
26 36 23 00-0031 EA 600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600).....	46,652.55	3,060.46
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,404.54	
For Level 2 Controller, Add	3,141.20	
For Level 3 Controller, Add	6,485.06	
For Level 4 Controller, Add	9,423.60	
26 36 23 00-0032 EA 800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800).....	51,476.36	3,193.53
For NEMA 3R Enclosure, Add	2,528.16	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,544.99	
For Level 2 Controller, Add	3,494.42	
For Level 3 Controller, Add	7,214.29	
For Level 4 Controller, Add	10,483.26	
26 36 23 00-0033 EA 1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	64,753.80	3,725.79
For NEMA 3R Enclosure, Add	2,528.16	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,544.99	
For Level 2 Controller, Add	4,440.92	
For Level 3 Controller, Add	9,168.36	
For Level 4 Controller, Add	13,322.77	
26 36 23 00-0034 EA 1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	85,143.09	4,215.37
For NEMA 3R Enclosure, Add	11,236.23	
For NEMA 4 Enclosure, Add	14,045.28	
For NEMA 12 Enclosure, Add	11,236.23	
For Level 2 Controller, Add	5,945.21	
For Level 3 Controller, Add	12,273.97	
For Level 4 Controller, Add	17,835.62	
26 36 23 00-0035 EA 1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	111,320.63	4,496.40
For NEMA 3R Enclosure, Add	23,876.97	
For NEMA 4 Enclosure, Add	23,876.97	
For NEMA 12 Enclosure, Add	22,247.72	
For Level 2 Controller, Add	7,930.41	
For Level 3 Controller, Add	16,372.45	
For Level 4 Controller, Add	23,791.22	
26 36 23 00-0036 EA 2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	126,445.20	4,917.94
For NEMA 3R Enclosure, Add	23,876.97	
For NEMA 4 Enclosure, Add	23,876.97	
For NEMA 12 Enclosure, Add	22,247.72	
For Level 2 Controller, Add	9,037.22	
For Level 3 Controller, Add	18,657.49	
For Level 4 Controller, Add	27,111.67	
26 36 23 00-0037 EA 3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	202,764.96	5,620.50
For NEMA 3R Enclosure, Add	29,495.07	
For Level 2 Controller, Add	14,843.11	
For Level 3 Controller, Add	30,643.83	
For Level 4 Controller, Add	44,529.32	
26 36 23 00-0038 EA 4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	218,801.99	6,323.06
For NEMA 3R Enclosure, Add	29,495.07	
For Level 2 Controller, Add	15,977.08	
For Level 3 Controller, Add	32,984.94	
For Level 4 Controller, Add	47,931.24	
26 36 23 00-0039 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)		
26 36 23 00-0040 EA 40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	9,078.95	332.66
For Level 2 Controller, Add	652.06	
For Level 3 Controller, Add	1,346.18	
For Level 4 Controller, Add	1,956.17	
For NEMA 3R Enclosure, Add	702.27	
For NEMA 12 Enclosure, Add	1,264.08	



		Electrical	26	26
		Facility Electrical Power Generating and Storing Equipment	26 30	
		Transfer Switches	26 36	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 36 23 00-0041	EA 70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	9,809.51		399.19
	For Level 2 Controller, Add	698.36		
	For Level 3 Controller, Add	1,441.78		
	For Level 4 Controller, Add	2,095.09		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0042	EA 100 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE100).....	10,174.14		432.45
	For Level 2 Controller, Add	721.46		
	For Level 3 Controller, Add	1,489.48		
	For Level 4 Controller, Add	2,164.39		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0043	EA 125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	10,538.76		465.72
	For Level 2 Controller, Add	744.57		
	For Level 3 Controller, Add	1,537.17		
	For Level 4 Controller, Add	2,233.70		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0044	EA 150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	12,662.55		532.25
	For Level 2 Controller, Add	898.85		
	For Level 3 Controller, Add	1,855.69		
	For Level 4 Controller, Add	2,696.54		
	For Four Pole Circuit Breaker, Add	3,511.32		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0045	EA 225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	16,509.25		598.78
	For Level 2 Controller, Add	1,186.66		
	For Level 3 Controller, Add	2,449.87		
	For Level 4 Controller, Add	3,559.97		
	For Four Pole Circuit Breaker, Add	3,511.32		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0046	EA 250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	17,570.73		665.31
	For Level 2 Controller, Add	1,258.61		
	For Level 3 Controller, Add	2,598.41		
	For Level 4 Controller, Add	3,775.82		
	For Four Pole Circuit Breaker, Add	3,511.32		
	For NEMA 3R Enclosure, Add	702.27		
	For NEMA 12 Enclosure, Add	1,264.08		
26 36 23 00-0047	EA 300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	18,263.94		731.86
	For Level 2 Controller, Add	1,302.02		
	For Level 3 Controller, Add	2,688.04		
	For Level 4 Controller, Add	3,906.06		
	For Four Pole Circuit Breaker, Add	4,775.40		
	For NEMA 3R Enclosure, Add	1,825.89		
	For NEMA 12 Enclosure, Add	1,404.54		
26 36 23 00-0048	EA 400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	20,674.88		798.39
	For Level 2 Controller, Add	1,478.55		
	For Level 3 Controller, Add	3,052.50		
	For Level 4 Controller, Add	4,435.66		
	For Four Pole Circuit Breaker, Add	4,775.40		
	For NEMA 3R Enclosure, Add	1,825.89		
	For NEMA 12 Enclosure, Add	1,404.54		
26 36 23 00-0049	EA 600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	25,080.02		997.98
	For Level 2 Controller, Add	1,789.02		
	For Level 3 Controller, Add	3,693.45		
	For Level 4 Controller, Add	5,367.05		
	For Four Pole Circuit Breaker, Add	4,775.40		
	For NEMA 3R Enclosure, Add	1,825.89		
	For NEMA 12 Enclosure, Add	1,404.54		
26 36 23 00-0050	EA 800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	26,092.14		1,197.57
	For Level 2 Controller, Add	1,836.52		
	For Level 3 Controller, Add	3,791.52		
	For Level 4 Controller, Add	5,509.55		
	For Four Pole Circuit Breaker, Add	6,811.96		
	For NEMA 3R Enclosure, Add	3,146.15		
	For NEMA 12 Enclosure, Add	1,966.35		
26 36 23 00-0051	EA 1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	30,931.02		1,686.15
	For Level 2 Controller, Add	2,135.80		
	For Level 3 Controller, Add	4,409.40		
	For Level 4 Controller, Add	6,407.40		
	For Four Pole Circuit Breaker, Add	6,811.96		
	For NEMA 3R Enclosure, Add	3,146.15		
	For NEMA 12 Enclosure, Add	1,966.35		

26 Electrical**26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 36 23 00-0052	Accessories ^(26 36 23)		
26 36 23 00-0053	EA Auxiliary Contacts For Automatic Transfer Switch	325.86	
26 36 23 00-0054	EA Battery Charger For Automatic Transfer Switch	2,668.61	
26 36 23 00-0055	EA Elevator Relay Signal For Automatic Transfer Switch.....	969.13	

26 40 Electrical And Cathodic Protection ⁽²⁶⁾**26 43 Surge Protective Devices ^(26 40)****26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits ^(26 43)**

26 43 13 00-0001	25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13)		
	Note: Liebert LPL		
26 43 13 00-0002	EA 120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	252.93	32.45
26 43 13 00-0003	EA 208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	272.01	32.45
26 43 13 00-0004	EA 240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	284.99	38.94
26 43 13 00-0005	EA 277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	234.51	25.96
26 43 13 00-0006	EA 480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor	284.99	38.94
26 43 13 00-0007	50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13)		
	Note: Liebert LPL		
26 43 13 00-0008	EA 120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	346.95	32.45
26 43 13 00-0009	EA 208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	370.83	38.94
26 43 13 00-0010	EA 277 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	357.85	32.45
26 43 13 00-0011	EA 480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor	370.83	38.94
26 43 13 00-0012	100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression ^(26 43 13)		
	Note: Liebert LPL		
26 43 13 00-0013	EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	417.80	32.45
26 43 13 00-0014	EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	441.68	38.94
26 43 13 00-0015	EA 277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	388.48	25.96
26 43 13 00-0016	EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor	441.68	38.94
26 43 13 00-0017	100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression ^(26 43 13)		
	Note: Liebert LPM		
26 43 13 00-0018	EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor.....	491.38	32.45
26 43 13 00-0019	EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	554.78	38.94
26 43 13 00-0020	EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor	463.43	25.96
26 43 13 00-0021	160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression ^(26 43 13)		
	Note: Liebert LPM		
26 43 13 00-0022	EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor.....	861.37	38.94
26 43 13 00-0023	EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	848.39	32.45
26 43 13 00-0024	EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor	861.37	38.94
26 43 13 00-0025	250 kA, 500 Joule Transient Voltage Surge Suppression ^(26 43 13)		
	Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026	EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor.....	8,184.94	64.89
26 43 13 00-0027	EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor	10,011.34	64.89
26 43 13 00-0028	Class 1310 Transient Voltage Surge Suppression ^(26 43 13)		
	Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
26 43 13 00-0029	NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor ^(26 43 13 00-0028)		
	Note: Square D, EMA series.		
26 43 13 00-0030	EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,021.45	168.73
	For Integral Disconnect, Add	265.68	
	For Surge Counter, Add	203.04	
26 43 13 00-0031	EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,438.02	194.68
	For Integral Disconnect, Add	265.68	
	For Surge Counter, Add	203.04	
26 43 13 00-0032	EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,467.09	227.13
	For Integral Disconnect, Add	265.68	
	For Surge Counter, Add	203.04	
26 43 13 00-0033	EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,590.89	259.58
	For Integral Disconnect, Add	265.68	
	For Surge Counter, Add	203.04	
26 43 13 00-0034	EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	12,704.23	356.93
	For Integral Disconnect, Add	265.68	
	For Surge Counter, Add	203.04	
26 43 13 00-0035	EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,194.05	168.73
	For Integral Disconnect, Add	265.68	
	For Surge Counter, Add	203.04	



Electrical		26	26
Electrical And Cathodic Protection		26 40	
Surge Protective Devices		26 43	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0036	EA	160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,627.62	194.68	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0037	EA	240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,760.02	227.13	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0038	EA	320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,971.33	259.58	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0039	EA	480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	13,291.29	356.93	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0040	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,194.05	168.73	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0041	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,627.62	194.68	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0042	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	6,759.96	227.13	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0043	EA	320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	8,971.33	259.58	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0044	EA	480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	13,291.29	356.93	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0045	EA	120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,366.68	168.73	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0046	EA	160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,819.67	194.68	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0047	EA	240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,055.37	227.13	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0048	EA	320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	9,354.28	259.58	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0049	EA	480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	13,880.74	356.93	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0050	EA	120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	4,567.23	168.73	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0051	EA	160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	5,019.05	194.68	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0052	EA	240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	7,364.09	227.13	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0053	EA	320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	9,755.38	259.58	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0054	EA	480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor.....	13,663.74	356.93	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0055		NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor ⁽²⁶⁾			
		^{43 13 00-0028)}			
		Note: Square D EBA series.			
26 43 13 00-0056	EA	120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,146.38	168.73	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0057	EA	160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,798.75	194.68	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0058	EA	240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,550.66	227.13	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0059	EA	120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,244.83	168.73	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0060	EA	160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,944.60	194.68	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0061	EA	240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	5,741.48	227.13	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0062	EA	120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,244.83	168.73	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		
26 43 13 00-0063	EA	160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor.....	3,944.60	194.68	
		For Integral Disconnect, Add	265.68		
		For Surge Counter, Add	203.04		

26 Electrical**26 40 Electrical And Cathodic Protection****26 43 Surge Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0064 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,741.48 265.68 203.04	227.13
26 43 13 00-0065 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,370.02 265.68 203.04	168.73
26 43 13 00-0066 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,101.39 265.68 203.04	194.68
26 43 13 00-0067 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,985.78 265.68 203.04	227.13
26 43 13 00-0068 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,501.29 265.68 203.04	168.73
26 43 13 00-0069 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,267.90 265.68 203.04	194.68
26 43 13 00-0070 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,242.24 265.68 203.04	227.13
26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EMA series. Stainless steel.		
26 43 13 00-0072 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,170.04 265.68 203.04	168.73
26 43 13 00-0073 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,586.61 265.68 203.04	194.68
26 43 13 00-0074 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,615.68 265.68 203.04	227.13
26 43 13 00-0075 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,342.64 265.68 203.04	168.73
26 43 13 00-0076 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,776.21 265.68 203.04	194.68
26 43 13 00-0077 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,908.61 265.68 203.04	227.13
26 43 13 00-0078 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,342.64 265.68 203.04	168.73
26 43 13 00-0079 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,776.21 265.68 203.04	194.68
26 43 13 00-0080 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,908.55 265.68 203.04	227.13
26 43 13 00-0081 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,515.27 265.68 203.04	168.73
26 43 13 00-0082 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,968.26 265.68 203.04	194.68
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,203.96 265.68 203.04	227.13
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,715.82 265.68 203.04	168.73
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,167.64 265.68 203.04	194.68
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,512.68 265.68 203.04	227.13
26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028) Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,294.97 265.68 203.04	168.73
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,947.34 265.68 203.04	194.68
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,699.25 265.68 203.04	227.13



Electrical		26	26
Electrical And Cathodic Protection		26 40	
Surge Protective Devices		26 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,393.42 265.68 203.04	168.73
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,093.19 265.68 203.04	194.68
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,890.07 265.68 203.04	227.13
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,393.42 265.68 203.04	168.73
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,093.19 265.68 203.04	194.68
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	6,890.07 265.68 203.04	227.13
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,518.61 265.68 203.04	168.73
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,249.98 265.68 203.04	194.68
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,134.37 265.68 203.04	227.13
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	4,649.88 265.68 203.04	168.73
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	5,416.49 265.68 203.04	194.68
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor For Integral Disconnect, Add For Surge Counter, Add	7,390.83 265.68 203.04	227.13

26 50 Lighting⁽²⁶⁾

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 52 Safety Lighting^(26 50)

26 52 13 Emergency and Exit Lighting^(26 52)

26 52 13 13 Emergency Lighting^(26 52 13)

26 52 13 13-0001 Commercial Emergency Lights^(26 52 13 13)

26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights^(26 52 13 13-0001)

Note: Includes lead-calcium batteries and two adjustable lamp heads.

26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED)	256.42	32.45
26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2)	175.92	32.45
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618)	281.27	32.45
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627)	328.96	32.45
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654)	492.85	32.45
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254)	559.38	32.45
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	
26 52 13 13-0009 EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272)	818.58	32.45
For Halogen Lamps, Add	27.55	
For Self-Diagnostics, Add	87.50	

26 52 13 13-0010 Remote Heads For Commercial Emergency Lights^(26 52 13 13-0001)

Note: For use with fixtures that have remote capability.

26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606)	173.88	19.47
26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606)	175.08	19.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	179.10	19.47
26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212).....	178.45	19.47
26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212).....	153.75	19.47
26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	104.69	19.47
26 52 13 13-0017 Industrial Emergency Lights (26 52 13 13)		
26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....	456.65	32.45
For Wireguard, Add	235.71	
26 52 13 13-0021 EA 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24).....	382.22	32.45
For Wireguard, Add	235.71	
26 52 13 13-0022 EA 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36).....	599.76	32.45
For Wireguard, Add	235.71	
26 52 13 13-0023 EA 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	637.30	32.45
For Wireguard, Add	235.71	
26 52 13 13-0024 EA 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	912.63	32.45
For Wireguard, Add	251.06	
26 52 13 13-0025 EA 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	1,439.33	32.45
For Wireguard, Add	251.06	
26 52 13 13-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights (26 52 13 13-0018) Note: For use with fixtures that have remote capability.		
26 52 13 13-0027 EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	132.96	19.47
For Wireguard, Add	190.22	
26 52 13 13-0028 EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	137.64	19.47
For Wireguard, Add	190.22	
26 52 13 13-0029 EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812).....	133.62	19.47
For Wireguard, Add	190.22	
26 52 13 13-0030 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	134.38	19.47
For Wireguard, Add	190.22	
26 52 13 13-0031 EA 12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	137.64	19.47
For Wireguard, Add	190.22	
26 52 13 13-0032 EA 12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	161.37	19.47
For Wireguard, Add	190.22	
26 52 13 13-0033 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0017)		
26 52 13 13-0034 Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0033) Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035 EA 18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618).....	450.67	32.45
For Wireguard, Add	229.18	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0036 EA 36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	490.39	32.45
For Wireguard, Add	229.18	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0037 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	479.51	32.45
For Wireguard, Add	229.18	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0038 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	507.26	32.45
For Wireguard, Add	229.18	
For Self-Diagnostics, Add	105.50	
26 52 13 13-0039 EA 100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	858.76	32.45
For Wireguard, Add	229.18	
For Self-Diagnostics, Add	105.50	



Electrical		26	26
Lighting		26 50	
Safety Lighting		26 52	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0040	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618).....	673.21	32.45
		For Wireguard, Add	229.18	
		For Self-Diagnostics, Add	61.50	
26 52 13 13-0041	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	754.83	32.45
		For Wireguard, Add	229.18	
		For Self-Diagnostics, Add	61.50	
26 52 13 13-0042	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	796.18	32.45
		For Wireguard, Add	229.18	
		For Self-Diagnostics, Add	61.50	
26 52 13 13-0043		Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights (26 52 13 13-0033) Note: For use with fixtures that have remote capability.		
26 52 13 13-0044	EA	9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	115.01	19.47
26 52 13 13-0045	EA	12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	124.48	19.47
26 52 13 13-0046	EA	9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	115.12	19.47
26 52 13 13-0047	EA	12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	122.08	19.47
26 52 13 13-0048	EA	12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	104.19	19.47
26 52 13 13-0049		Outdoor Emergency Lights (26 52 13 13)		
26 52 13 13-0050		Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights (26 52 13 13-0049) Note: Includes nickel-cadmium batteries.		
26 52 13 13-0051	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	712.93	32.45
26 52 13 13-0052	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	851.68	32.45
26 52 13 13-0053		Recessed Emergency Lights (26 52 13 13)		
26 52 13 13-0054	EA	10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	777.54	32.45
		For Wire Guard, Add	60.00	
26 52 13 13-0055	EA	16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	608.86	64.89
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		For Wireguard, Add	251.06	
26 52 13 13-0056	EA	50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	877.77	64.89
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		For Wireguard, Add	251.06	
26 52 13 13-0057		Square Wraparound Emergency Lights (26 52 13 13)		
26 52 13 13-0058	EA	10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ).....	353.41	32.45
26 52 13 16		Exit Signs (26 52 13) Note: Excludes pendants.		
26 52 13 16-0001		LED Exit Signs (26 52 13 16) Note: Includes red LED lamps.		
26 52 13 16-0002	EA	Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	204.92	47.44
		For Green LED Lamps, Add	15.00	
		For >50 To 100, Deduct	-7.49	
		For >100 To 250, Deduct	-12.62	
		For >250 To 500, Deduct	-20.49	
		For >500, Deduct	-28.37	
26 52 13 16-0003	EA	Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	204.92	47.44
		For Green LED Lamps, Add	15.00	
		For >50 To 100, Deduct	-7.49	
		For >100 To 250, Deduct	-12.62	
		For >250 To 500, Deduct	-20.49	
		For >500, Deduct	-28.37	
26 52 13 16-0004	EA	Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM-S-W-3-R-120/277-EL-N-M6).....	287.23	47.44
		For Green LED Lamps, Add	15.00	
		For Self-Diagnostics, Add	50.00	
		For >50 To 100, Deduct	-9.55	
		For >100 To 250, Deduct	-16.73	
		For >250 To 500, Deduct	-28.72	
		For >500, Deduct	-40.71	

26 Electrical**26 50 Lighting****26 52 Safety Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN)	287.23	47.44
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-9.55	
			For >100 To 250, Deduct	-16.73	
			For >250 To 500, Deduct	-28.72	
			For >500, Deduct	-40.71	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-1-R)	316.65	47.44
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-10.29	
			For >100 To 250, Deduct	-18.20	
			For >250 To 500, Deduct	-31.67	
			For >500, Deduct	-45.13	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-2-R)	359.56	47.44
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-11.36	
			For >100 To 250, Deduct	-20.35	
			For >250 To 500, Deduct	-35.96	
			For >500, Deduct	-51.56	
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-1-R-EL-N)	298.71	47.44
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-9.84	
			For >100 To 250, Deduct	-17.31	
			For >250 To 500, Deduct	-29.87	
			For >500, Deduct	-42.43	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-2-R-EL-N)	329.86	47.44
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.62	
			For >100 To 250, Deduct	-18.86	
			For >250 To 500, Deduct	-32.99	
			For >500, Deduct	-47.11	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-S-W-3-R-M4)	380.04	47.44
			Note: Includes two circular side mounted krypton emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-12.75	
			For >100 To 250, Deduct	-22.25	
			For >250 To 500, Deduct	-38.00	
			For >500, Deduct	-53.76	
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-LED-R-M6)	324.85	47.44
			Note: Includes two circular side mounted LED emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-11.37	
			For >100 To 250, Deduct	-19.49	
			For >250 To 500, Deduct	-32.49	
			For >500, Deduct	-45.48	
26 52 13 16-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH)	477.21	47.44
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-15.18	
			For >100 To 250, Deduct	-27.11	
			For >250 To 500, Deduct	-47.72	
			For >500, Deduct	-68.34	
26 52 13 16-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM)	499.82	47.44
			Note: Includes two circular side mounted PAR 36 emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-15.74	
			For >100 To 250, Deduct	-28.24	
			For >250 To 500, Deduct	-49.98	
			For >500, Deduct	-71.73	
26 52 13 16-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R)	135.58	47.44
			For >50 To 100, Deduct	-5.76	
			For >100 To 250, Deduct	-9.15	
			For >250 To 500, Deduct	-13.56	
			For >500, Deduct	-17.97	
26 52 13 16-0015	EA		120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R)	136.11	47.44
			For >50 To 100, Deduct	-5.77	
			For >100 To 250, Deduct	-9.18	
			For >250 To 500, Deduct	-13.61	
			For >500, Deduct	-18.04	
26 52 13 16-0016			Edge-Lit LED Exit Signs (26 52 13 16) Note: Includes red LED lamps.		
26 52 13 16-0017	EA		Single Face, Edge-Lit LED Exit Sign (Lithonia EDG-1- R-M6)	281.99	47.44
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-9.42	
			For >100 To 250, Deduct	-16.47	
			For >250 To 500, Deduct	-28.20	
			For >500, Deduct	-39.93	



Electrical			26
Lighting			26 50
Safety Lighting			26 52

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0018	EA		Double Face, Edge-Lit LED Exit Sign (Lithonia EDG-2-R-M6)	284.96	47.44
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-9.50	
			For >100 To 250, Deduct	-16.62	
			For >250 To 500, Deduct	-28.50	
			For >500, Deduct	-40.37	
26 52 13 16-0019	EA		Single Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-1-R-EL-M6)	305.06	47.44
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.00	
			For >100 To 250, Deduct	-17.62	
			For >250 To 500, Deduct	-30.51	
			For >500, Deduct	-43.39	
26 52 13 16-0020	EA		Double Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-2-R-EL-M6)	365.14	47.44
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-11.50	
			For >100 To 250, Deduct	-20.63	
			For >250 To 500, Deduct	-36.51	
			For >500, Deduct	-52.40	
26 52 13 16-0021 Self-Luminous Tritium Exit Signs (26 52 13 16)					
Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.					
26 52 13 16-0022	EA		10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-10-R)	604.16	47.44
			For >50 To 100, Deduct	-17.48	
			For >100 To 250, Deduct	-32.58	
			For >250 To 500, Deduct	-60.42	
			For >500, Deduct	-88.25	
26 52 13 16-0023	EA		10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-10-R)	1,112.91	47.44
			For >50 To 100, Deduct	-30.19	
			For >100 To 250, Deduct	-58.02	
			For >250 To 500, Deduct	-111.29	
			For >500, Deduct	-164.56	
26 52 13 16-0024	EA		20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-20-R)	720.06	47.44
			For >50 To 100, Deduct	-20.37	
			For >100 To 250, Deduct	-38.37	
			For >250 To 500, Deduct	-72.01	
			For >500, Deduct	-105.64	
26 52 13 16-0025	EA		20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-20-R)	1,205.96	47.44
			For >50 To 100, Deduct	-32.52	
			For >100 To 250, Deduct	-62.67	
			For >250 To 500, Deduct	-120.60	
			For >500, Deduct	-178.52	
26 52 13 16-0026	EA		10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-10-R)	661.84	47.44
			For >50 To 100, Deduct	-18.92	
			For >100 To 250, Deduct	-35.46	
			For >250 To 500, Deduct	-66.18	
			For >500, Deduct	-96.90	
26 52 13 16-0027	EA		10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-10-R)	1,205.96	47.44
			For >50 To 100, Deduct	-32.52	
			For >100 To 250, Deduct	-62.67	
			For >250 To 500, Deduct	-120.60	
			For >500, Deduct	-178.52	
26 52 13 16-0028	EA		20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-20-R)	812.56	47.44
			For >50 To 100, Deduct	-22.69	
			For >100 To 250, Deduct	-43.00	
			For >250 To 500, Deduct	-81.26	
			For >500, Deduct	-119.51	
26 52 13 16-0029	EA		20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-20-R)	1,497.60	47.44
			For >50 To 100, Deduct	-39.81	
			For >100 To 250, Deduct	-77.25	
			For >250 To 500, Deduct	-149.76	
			For >500, Deduct	-222.27	
26 52 13 16-0030 Vandal-Resistant LED Exit Signs (26 52 13 16)					
Note: Includes red LED lamps.					
26 52 13 16-0031	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign (Lithonia LV-S-W-1-R-120/277)	569.88	47.44
			For >50 To 100, Deduct	-16.62	
			For >100 To 250, Deduct	-30.87	
			For >250 To 500, Deduct	-56.99	
			For >500, Deduct	-83.11	
26 52 13 16-0032	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-W-1-R-120/277-EL-N)	884.93	47.44
			For >50 To 100, Deduct	-24.50	
			For >100 To 250, Deduct	-46.62	
			For >250 To 500, Deduct	-88.49	
			For >500, Deduct	-130.37	

26	Electrical
26 50	Lighting
26 52	Safety Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0033	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-1-R-120/277-EL-N-UM-4X)	1,078.09	47.44
			For >50 To 100, Deduct	-29.32	
			For >100 To 250, Deduct	-56.28	
			For >250 To 500, Deduct	-107.81	
			For >500, Deduct	-159.34	
26 52 13 16-0034			Removal And Reinstallation Of Exit Light Fixture (26 52 13 16)		
26 52 13 16-0035	EA		Removal And Reinstall Of Exit Light Fixtures	97.34	
			Note: Includes storage and cleaning.		
			For >50 To 100, Deduct	-4.87	
			For >100 To 250, Deduct	-7.30	
			For >250 To 500, Deduct	-9.73	
			For >500, Deduct	-12.17	
26 52 13 16-0036			Exit Sign Accessories (26 52 13 16)		
26 52 13 16-0037	EA		Polycarbonate Vandal Shield For Exit Signs (Radiant-Lite BG-1)	134.82	13.01
			For >50 To 100, Deduct	-4.02	
			For >100 To 250, Deduct	-7.39	
			For >250 To 500, Deduct	-13.48	
			For >500, Deduct	-19.57	
26 52 13 16-0038	EA		Wire Guard For Exit Signs Or Emergency Lights (Best Lighting Products WG-1)	78.51	13.01
			For >50 To 100, Deduct	-2.61	
			For >100 To 250, Deduct	-4.58	
			For >250 To 500, Deduct	-7.85	
			For >500, Deduct	-11.13	
26 52 13 16-0039	EA		Removal And Replacement Of Battery For Exit Signs	134.69	
			Note: Battery: nickel cadmium, 1.2 volt, 1 Ah battery capacity		
			For >50 To 100, Deduct	-4.18	
			For >100 To 250, Deduct	-7.55	
			For >250 To 500, Deduct	-13.47	
			For >500, Deduct	-19.39	
26 55			Special Purpose Lighting (26 50)		
26 55 13			Landscape Lighting (26 55)		
26 55 13 00-0001			Bollards (26 55 13)		
			Note: Excludes concrete base.		
26 55 13 00-0002			Aluminum Architectural Bollards (26 55 13 00-0001)		
26 55 13 00-0003			High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0004			Square, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0005	EA		24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,641.39	110.32
26 55 13 00-0006	EA		30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,654.37	116.81
26 55 13 00-0007	EA		36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,667.35	123.30
26 55 13 00-0008	EA		42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,543.14	129.79
26 55 13 00-0009	EA		24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,641.39	110.32
26 55 13 00-0010	EA		30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,654.37	116.81
26 55 13 00-0011	EA		36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,667.35	123.30
26 55 13 00-0012	EA		42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,543.14	129.79
26 55 13 00-0013	EA		24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,641.39	110.32
26 55 13 00-0014	EA		30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,654.37	116.81
26 55 13 00-0015	EA		36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,667.35	123.30
26 55 13 00-0016	EA		42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,543.14	129.79
26 55 13 00-0017	EA		24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,641.39	110.32
26 55 13 00-0018	EA		30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,654.37	116.81
26 55 13 00-0019	EA		36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,667.35	123.30
26 55 13 00-0020	EA		42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,543.14	129.79
26 55 13 00-0021			Round, High Pressure Sodium, Aluminum Architectural Bollards (26 55 13 00-0003)		
26 55 13 00-0022	EA		24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,578.39	110.32
26 55 13 00-0023	EA		30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.37	116.81
26 55 13 00-0024	EA		36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,604.35	123.30
26 55 13 00-0025	EA		42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,479.56	129.79
26 55 13 00-0026	EA		24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,578.39	110.32
26 55 13 00-0027	EA		30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.37	116.81
26 55 13 00-0028	EA		36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,604.35	123.30
26 55 13 00-0029	EA		42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,479.56	129.79
26 55 13 00-0030	EA		24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,578.39	110.32
26 55 13 00-0031	EA		30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.37	116.81
26 55 13 00-0032	EA		36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,604.35	123.30
26 55 13 00-0033	EA		42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,479.56	129.79
26 55 13 00-0034	EA		24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,578.39	110.32
26 55 13 00-0035	EA		30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,591.37	116.81
26 55 13 00-0036	EA		36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,604.35	123.30
26 55 13 00-0037	EA		42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard	1,479.56	129.79



Electrical		26
Lighting		26 50
Special Purpose Lighting		26 55

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0038 Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0039 Square, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,723.19	110.32
26 55 13 00-0041 EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,736.17	116.81
26 55 13 00-0042 EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,749.15	123.30
26 55 13 00-0043 EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,624.36	129.79
26 55 13 00-0044 EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,723.19	110.32
26 55 13 00-0045 EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,736.17	116.81
26 55 13 00-0046 EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,749.15	123.30
26 55 13 00-0047 EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,624.36	129.79
26 55 13 00-0048 EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,723.19	110.32
26 55 13 00-0049 EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,736.17	116.81
26 55 13 00-0050 EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,749.15	123.30
26 55 13 00-0051 EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,692.82	129.79
26 55 13 00-0052 Round, Metal Halide, Aluminum Architectural Bollards (26 55 13 00-0038)		
26 55 13 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,659.62	110.32
26 55 13 00-0054 EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,672.60	116.81
26 55 13 00-0055 EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,685.58	123.30
26 55 13 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard	1,560.79	129.79
26 55 13 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,659.62	110.32
26 55 13 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,672.60	116.81
26 55 13 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,685.58	123.30
26 55 13 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard	1,560.79	129.79
26 55 13 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,659.62	110.32
26 55 13 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,672.60	116.81
26 55 13 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,685.58	123.30
26 55 13 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard	1,560.79	129.79
26 55 13 00-0065 Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0066 Square, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,634.22	110.32
26 55 13 00-0068 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,647.20	116.81
26 55 13 00-0069 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,660.18	123.30
26 55 13 00-0070 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,537.25	129.79
26 55 13 00-0071 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,634.22	110.32
26 55 13 00-0072 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,647.20	116.81
26 55 13 00-0073 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,660.18	123.30
26 55 13 00-0074 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,537.25	129.79
26 55 13 00-0075 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,634.22	110.32
26 55 13 00-0076 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,647.20	116.81
26 55 13 00-0077 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,660.18	123.30
26 55 13 00-0078 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,537.25	129.79
26 55 13 00-0079 Round, Compact Fluorescent, Aluminum Architectural Bollards (26 55 13 00-0065)		
26 55 13 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,572.03	110.32
26 55 13 00-0081 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,585.01	116.81
26 55 13 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,597.99	123.30
26 55 13 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,476.26	129.79
26 55 13 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,572.03	110.32
26 55 13 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,585.01	116.81
26 55 13 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,597.99	123.30
26 55 13 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,476.26	129.79
26 55 13 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,572.03	110.32
26 55 13 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,585.01	116.81
26 55 13 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,597.99	123.30
26 55 13 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard	1,476.26	129.79
26 55 13 00-0092 LED, Aluminum Architectural Bollards (26 55 13 00-0002)		
26 55 13 00-0093 Square, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,957.12	110.32
26 55 13 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,970.10	116.81
26 55 13 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,983.08	123.30
26 55 13 00-0097 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard	1,861.87	129.79
26 55 13 00-0098 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,390.04	110.32
26 55 13 00-0099 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,403.02	116.81
26 55 13 00-0100 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,416.00	123.30
26 55 13 00-0101 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard	2,292.64	129.79
26 55 13 00-0102 Round, LED, Aluminum Architectural Bollards (26 55 13 00-0092)		
26 55 13 00-0103 EA 24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard	1,892.54	110.32

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,905.52	116.81
26 55 13 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,918.50	123.30
26 55 13 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,795.14	129.79
26 55 13 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,325.46	110.32
26 55 13 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,338.44	116.81
26 55 13 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,351.42	123.30
26 55 13 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,228.83	129.79
26 55 13 00-0111 Reinforced Concrete Bollards (26 55 13 00-0001)		
26 55 13 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,623.67	324.47
26 55 13 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard	2,853.81	432.59
26 55 13 00-0114 Low Voltage (26 55 13)		
26 55 13 00-0115 EA Low Voltage Recessed Uplight	841.43	236.22
26 55 13 00-0116 EA Low Voltage Walkway	592.27	129.79
26 55 13 00-0117 EA Low Voltage Malibu - 5 Light Set	588.51	173.27
26 55 13 00-0118 EA Low Voltage Mushroom 24" Pier.....	507.59	129.79
26 55 13 00-0119 Recessed, Adjustable (26 55 13)		
26 55 13 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	977.87	207.66
26 55 13 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	1,068.60	207.66
26 55 13 00-0122 Recessed, Uplight (26 55 13)		
26 55 13 00-0123 EA 50 Watt Incandescent Recessed Uplight	875.03	207.66
26 55 13 00-0124 EA 150 Watt Incandescent Recessed Uplight	893.18	207.66
26 55 13 00-0125 EA 300 Watt Incandescent Recessed Uplight	947.62	207.66
26 55 13 00-0126 EA 500 Watt Quartz Recessed Uplight.....	941.57	207.66
26 55 13 00-0127 EA 5 Watt, LED Recessed Uplight	1,205.61	207.66
26 55 13 00-0128 EA 15 Watt, LED Recessed Uplight	1,326.22	207.66
26 55 13 00-0129 Recessed Wall Light (26 55 13)		
26 55 13 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	453.15	129.79
26 55 13 00-0131 EA 100 Watt Fluorescent Recessed Wall Light	435.00	129.79
26 55 13 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	703.44	173.27
26 55 13 00-0133 Step Lights (26 55 13)		
26 55 13 00-0134 EA Incandescent Step Light	370.92	103.83
26 55 13 00-0135 EA Fluorescent Step Light	431.47	103.83
26 55 13 00-0136 EA 5 Watt, LED Step Light	661.97	103.83
26 55 13 00-0137 EA 15 Watt, LED Step Light	790.62	103.83
26 55 13 00-0138 Tree Lights, Surface Adjustable (26 55 13)		
26 55 13 00-0139 EA 50 Watt Incandescent Tree Lights	782.08	173.27
26 55 13 00-0140 EA 100 Watt Incandescent Tree Lights	800.22	173.27
26 55 13 00-0141 EA 150 Watt Incandescent Tree Lights	1,003.08	259.58
26 55 16 Walkway Lighting (26 55)		
26 55 16 00-0001 Incandescent Walkway (26 55 16)		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	422.08	120.70
26 55 16 00-0003 Metal Halide Walkway (26 55 16)		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture	649.85	189.76
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture	687.17	196.63
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture	739.12	204.16
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture	792.05	220.64
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture	707.60	204.16
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	710.49	189.76
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture	725.02	196.63
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture	569.86	135.24
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture	601.39	135.24
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture	632.91	135.24
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture	714.46	152.24
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	542.51	121.49
26 55 16 00-0016 High Pressure Sodium Walkway (26 55 16)		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture	590.71	189.76
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	622.89	196.63
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	666.72	204.16



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0020	EA	Post Top 400 Watt High Pressure Sodium Walkway Fixture	715.36	220.64
26 55 16 00-0021	EA	Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	642.10	204.16
26 55 16 00-0022	EA	Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	638.09	189.76
26 55 16 00-0023	EA	Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	652.46	196.63
26 55 16 00-0024	EA	Spherical 100 Watt High Pressure Sodium Walkway Fixture	504.36	135.24
26 55 16 00-0025	EA	Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	528.98	135.24
26 55 16 00-0026	EA	Spherical 250 Watt High Pressure Sodium Walkway Fixture	553.61	135.24
26 55 16 00-0027	EA	Spherical 400 Watt High Pressure Sodium Walkway Fixture	624.82	152.24
26 55 16 00-0028	EA	Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	526.54	121.49
26 55 16 00-0029 Walkway, Adjustable (26 55 16)				
26 55 16 00-0030	EA	2' Fluorescent Adjustable Walkway Fixture	610.94	173.27
26 55 16 00-0031	EA	4' Fluorescent Adjustable Walkway Fixture	626.49	173.27
26 55 16 00-0032	EA	8' Fluorescent Adjustable Walkway Fixture	1,068.68	259.58
26 55 16 00-0033	EA	50 Watt Incandescent Adjustable Walkway Fixture	508.42	129.79
26 55 16 00-0034	EA	150 Watt Incandescent Adjustable Walkway Fixture	529.16	129.79
26 55 16 00-0035 LED Walkway (26 55 16)				
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035)				
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.				
26 55 16 00-0037	EA	13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	986.15	99.62
For Multi-Level Drive Currents, Add			259.76	
26 55 16 00-0038	EA	18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,017.69	99.62
For Multi-Level Drive Currents, Add			259.76	
26 55 16 00-0039	EA	36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,073.36	99.62
For Multi-Level Drive Currents, Add			259.76	
26 55 16 00-0040	EA	42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,116.03	99.62
For Multi-Level Drive Currents, Add			259.76	
26 55 16 00-0041	EA	96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,284.08	128.09
For Multi-Level Drive Currents, Add			259.76	
26 55 16 00-0042 Wall Mounted Walkway Lighting (26 55 16 00-0035)				
26 55 16 00-0043	EA	Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492).....	4,617.23	
Note: Type Fixture 17 as Post				
26 55 16 00-0044 Pole Mounted Walkway Lighting (26 55 16 00-0035)				
26 55 16 00-0045	EA	43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	4,258.85	
26 55 16 00-0046	EA	12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12)	4,181.39	
Note: Washers and nuts included				
26 55 29 Underwater Lighting (26 55)				
26 55 29 00-0001 Underwater Lights (26 55 29)				
26 55 29 00-0002	EA	150 Watt, 120 Volt Underwater Lights	638.40	86.31
26 55 29 00-0003	EA	300 Watt, 120 Volt Underwater Lights	710.99	86.31
26 55 29 00-0004	EA	1,000 Watt, 120 Volt Underwater Lights	1,741.58	129.79
26 55 29 00-0005	EA	50 Watt, 12 Volt Underwater Lights	668.65	86.31
26 55 29 00-0006	EA	300 Watt, 12 Volt Underwater Lights	753.33	86.31
26 55 29 00-0007	SET	Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent.....	1,931.48	194.68
26 55 53 Security Lighting (26 55)				
26 55 53 11 Security Flood Lighting (26 55 53)				
26 55 53 11-0001 Flood Lights (General Electric Powerflood®) (26 55 53 11)				
26 55 53 11-0002 MPF (Small Size) Series GE Flood Lights (26 55 53 11-0001)				
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.				
26 55 53 11-0003 High Pressure Sodium MPF Series GE Flood Lights (26 55 53 11-0002)				
26 55 53 11-0004	EA	70 Watt High Pressure Sodium MPF Series GE Flood Light	394.62	108.05
26 55 53 11-0005	EA	100 Watt High Pressure Sodium MPF Series GE Flood Light	398.19	108.05
26 55 53 11-0006	EA	150 Watt High Pressure Sodium MPF Series GE Flood Light	404.14	108.05
26 55 53 11-0007 Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)				
26 55 53 11-0008	EA	70 Watt Metal Halide MPF Series GE Flood Light.....	536.24	108.05
26 55 53 11-0009 P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001)				
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.				

26	Electrical
26 50	Lighting
26 55	Special Purpose Lighting



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0010	High Pressure Sodium P-154 Series GE Flood Lights (26 55 53 11-0009)			
26 55 53 11-0011	EA	70 Watt High Pressure Sodium P-154 Series GE Flood Light	801.06	144.07
26 55 53 11-0012	EA	100 Watt High Pressure Sodium P-154 Series GE Flood Light	805.82	144.07
26 55 53 11-0013	EA	150 Watt High Pressure Sodium P-154 Series GE Flood Light	814.15	144.07
26 55 53 11-0014	EA	250 Watt High Pressure Sodium P-154 Series GE Flood Light	908.17	144.07
26 55 53 11-0015	EA	400 Watt High Pressure Sodium P-154 Series GE Flood Light	935.54	144.07
26 55 53 11-0016	Metal Halide P-154 Series GE Flood Lights (26 55 53 11-0009)			
26 55 53 11-0017	EA	175 Watt Metal Halide P-154 Series GE Flood Light	792.73	144.07
26 55 53 11-0018	EA	250 Watt Metal Halide P-154 Series GE Flood Light	834.39	144.07
26 55 53 11-0019	EA	400 Watt Metal Halide P-154 Series GE Flood Light	855.81	144.07
26 55 53 11-0020	PF-154 (Medium Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.			
26 55 53 11-0021	High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0020)			
26 55 53 11-0022	EA	70 Watt High Pressure Sodium PF-154 Series GE Flood Light	816.84	162.07
26 55 53 11-0023	EA	100 Watt High Pressure Sodium PF-154 Series GE Flood Light	822.79	162.07
26 55 53 11-0024	EA	150 Watt High Pressure Sodium PF-154 Series GE Flood Light	832.31	162.07
26 55 53 11-0025	EA	250 Watt High Pressure Sodium PF-154 Series GE Flood Light	925.14	162.07
26 55 53 11-0026	EA	400 Watt High Pressure Sodium PF-154 Series GE Flood Light	951.32	162.07
26 55 53 11-0027	Metal Halide PF-154 GE Flood Lights (26 55 53 11-0020)			
26 55 53 11-0028	EA	175 Watt Metal Halide PF-154 Series GE Flood Light	809.70	162.07
26 55 53 11-0029	EA	250 Watt Metal Halide PF-154 Series GE Flood Light	850.16	162.07
26 55 53 11-0030	EA	400 Watt Metal Halide PF-154 Series GE Flood Light	871.59	162.07
26 55 53 11-0031	PF-400 (Medium Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.			
26 55 53 11-0032	High Pressure Sodium PF-400 Series GE Flood Lights (26 55 53 11-0031)			
26 55 53 11-0033	EA	150 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,097.70	162.07
26 55 53 11-0034	EA	200 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,181.01	162.07
26 55 53 11-0035	EA	250 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,175.06	162.07
26 55 53 11-0036	EA	400 Watt High Pressure Sodium PF-400 Series GE Flood Light	1,204.81	162.07
26 55 53 11-0037	Metal Halide PF-400 GE Flood Lights (26 55 53 11-0031)			
26 55 53 11-0038	EA	175 Watt Metal Halide PF-400 Series GE Flood Light	1,128.65	162.07
26 55 53 11-0039	EA	250 Watt Metal Halide PF-400 Series GE Flood Light	1,153.64	162.07
26 55 53 11-0040	EA	400 Watt Metal Halide PF-400 Series GE Flood Light	1,179.82	162.07
26 55 53 11-0041	PF-1000 (Large Size) Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.			
26 55 53 11-0042	High Pressure Sodium PF-154 Series GE Flood Lights (26 55 53 11-0041)			
26 55 53 11-0043	EA	750 Watt High Pressure Sodium PF-1000 Series GE Flood Light	1,489.56	180.08
26 55 53 11-0044	EA	1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light	1,489.56	180.08
26 55 53 11-0045	Metal Halide PF-1000 Series GE Flood Lights (26 55 53 11-0041)			
26 55 53 11-0046	EA	1,000 Watt Metal Halide PF-1000 Series GE Flood Light	1,420.54	180.08
26 55 53 11-0047	HLU/VLU (Medium Size) FRP Series GE Flood Lights (26 55 53 11-0001) Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.			
26 55 53 11-0048	High Pressure Sodium HLU/VLU FRP Series GE Flood Lights (26 55 53 11-0047)			
26 55 53 11-0049	EA	250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light	1,211.95	162.07
26 55 53 11-0050	EA	400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light	1,234.57	162.07
26 55 53 11-0051	Metal Halide HLU/VLU Series GE Flood Lights (26 55 53 11-0047)			
26 55 53 11-0052	EA	400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light	1,225.05	162.07
26 55 53 11-0053	Accessories For Powerflood GE Flood Lights (26 55 53 11-0001)			
26 55 53 11-0054	EA	Wireguard For Powerflood GE Flood Light	208.89	36.02



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0055	EA	Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	120.82	36.02
26 55 53 11-0056	EA	Top Visor For Powerflood Flood Light	175.57	36.02
26 55 53 11-0057	EA	Top And Two Side Visors For Powerflood GE Flood Light	133.92	36.02
26 55 53 11-0058	EA	Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	337.49	108.05
26 55 53 11-0059	EA	Multiple Mounting Channel For Powerflood GE Flood Light	147.01	36.02
26 55 53 11-0060	EA	Wall Or Flat Surface Bracket For Powerflood GE Flood Light	248.23	108.05
26 55 53 11-0061	EA	Steel Angle Bracket For Powerflood GE Flood Light	258.94	108.05
26 55 53 11-0062	EA	Cross Arm Adaptor For Powerflood GE Flood Light	110.11	36.02
26 55 53 11-0063	EA	120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light	106.54	36.02
26 55 53 11-0064		Flood Lights (Lithonia Contour Series) (26 55 53 11)		
26 55 53 11-0065		TFM (Small Size) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
26 55 53 11-0066		High Pressure Sodium TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0067	EA	70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	737.70	144.07
26 55 53 11-0068	EA	100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	806.42	144.07
26 55 53 11-0069	EA	150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	873.71	144.07
26 55 53 11-0070		Metal Halide TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0071	EA	50 Watt Metal Halide TFM Series Lithonia Flood Light.....	957.68	144.07
26 55 53 11-0072	EA	70 Watt Metal Halide TFM Series Lithonia Flood Light.....	941.14	144.07
26 55 53 11-0073	EA	100 Watt Metal Halide TFM Series Lithonia Flood Light.....	914.48	144.07
26 55 53 11-0074	EA	175 Watt Metal Halide TFM Series Lithonia Flood Light.....	912.50	144.07
26 55 53 11-0075		Compact Fluorescent TFM Series Lithonia Flood Lights (26 55 53 11-0065)		
26 55 53 11-0076	EA	42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	950.83	144.07
26 55 53 11-0077		TFL (Medium Size) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0078		High Pressure Sodium TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0079	EA	250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,131.79	162.07
26 55 53 11-0080	EA	400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,154.71	162.07
26 55 53 11-0081		Metal Halide TFL Series Lithonia Flood Lights (26 55 53 11-0077)		
26 55 53 11-0082	EA	175 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,080.28	162.07
26 55 53 11-0083	EA	250 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,080.28	162.07
26 55 53 11-0084	EA	400 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,116.22	162.07
26 55 53 11-0085		TFR (Low Profile) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0086		High Pressure Sodium TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0087	EA	150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	1,084.35	144.07
26 55 53 11-0088	EA	250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	1,118.65	144.07
26 55 53 11-0089	EA	400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light	1,147.31	144.07
26 55 53 11-0090		Metal Halide TFR Lithonia Flood Lights (26 55 53 11-0085)		
26 55 53 11-0091	EA	250 Watt Metal Halide TFR Series Lithonia Flood Light	1,072.88	144.07
26 55 53 11-0092	EA	400 Watt Metal Halide TFR Series Lithonia Flood Light	1,107.23	144.07
26 55 53 11-0093		TFA (Large Size) Series Lithonia Flood Lights (26 55 53 11-0064) Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
26 55 53 11-0094		High Pressure Sodium TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0095	EA	1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	2,106.94	180.08
26 55 53 11-0096		Metal Halide TFA Series Lithonia Flood Lights (26 55 53 11-0093)		
26 55 53 11-0097	EA	400 Watt Metal Halide TFA Series Lithonia Flood Light	1,620.12	180.08
26 55 53 11-0098	EA	1,000 Watt Metal Halide TFA Series Lithonia Flood Light	1,791.92	180.08
26 55 53 11-0099		Accessories For Contour Series Lithonia Flood Lights (26 55 53 11-0064)		

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0100	EA		Wireguard For Contour Series Lithonia Flood Light.....	180.02	36.02
26 55 53 11-0101	EA		Vandal Guard For Contour Series Lithonia Flood Light	348.66	36.02
26 55 53 11-0102	EA		Upper Visor For Contour Series Lithonia Flood Light.....	148.20	36.02
26 55 53 11-0103	EA		Full Visor For Contour Series Lithonia Flood Light	199.73	36.02
26 55 53 11-0104	EA		Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light	445.15	108.05
26 55 53 11-0105	EA		Radius Wall Bracket For Contour Series Lithonia Flood Light	353.96	108.05
26 55 53 11-0106	EA		Steel Angle Bracket For Contour Series Lithonia Flood Light	353.96	108.05
26 55 53 11-0107	EA		U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe	390.33	108.05
26 55 53 11-0108	EA		Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light	172.19	36.02
26 55 53 11-0109	EA		120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light	137.25	36.02
26 55 53 11-0110 Flood Lights (Eaton) (26 55 53 11)					
26 55 53 11-0111	EA		6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	1,161.23	144.07
			For NEMA Photocontrol Option (Eaton OA/RA1016), Add	61.61	
			For >50 To 100, Deduct	-36.23	
			For >100 To 250, Deduct	-65.26	
			For >250 To 500, Deduct	-116.12	
			For >500, Deduct	-166.98	
26 55 53 11-0112	EA		16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....	1,445.12	159.18
			For >50 To 100, Deduct	-44.09	
			For >100 To 250, Deduct	-80.22	
			For >250 To 500, Deduct	-144.51	
			For >500, Deduct	-208.81	
26 55 53 11-0113 Flood Lights (Ruud) (26 55 53 11)					
26 55 53 11-0114 NS (Micro) Series Ruud Flood Lights (26 55 53 11-0113)					
Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.					
26 55 53 11-0115 High Pressure Sodium NS Series Ruud Flood Lights (26 55 53 11-0114)					
26 55 53 11-0116	EA		35 Watt High Pressure Sodium NS Series Ruud Flood Light	485.06	108.05
26 55 53 11-0117	EA		50 Watt High Pressure Sodium NS Series Ruud Flood Light	485.06	108.05
26 55 53 11-0118	EA		70 Watt High Pressure Sodium NS Series Ruud Flood Light	485.06	108.05
26 55 53 11-0119	EA		100 Watt High Pressure Sodium NS Series Ruud Flood Light	485.06	108.05
26 55 53 11-0120	EA		150 Watt High Pressure Sodium NS Series Ruud Flood Light	485.06	108.05
26 55 53 11-0121 Metal Halide NS Series Ruud Flood Lights (26 55 53 11-0114)					
26 55 53 11-0122	EA		50 Watt Metal Halide NS Series Ruud Flood Light	551.71	108.05
26 55 53 11-0123	EA		70 Watt Metal Halide NS Series Ruud Flood Light	551.71	108.05
26 55 53 11-0124	EA		100 Watt Metal Halide NS Series Ruud Flood Light	551.71	108.05
26 55 53 11-0125 Compact Fluorescent NS Series Ruud Flood Lights (26 55 53 11-0114)					
26 55 53 11-0126	EA		13 Watt Compact Fluorescent NS Series Ruud Flood Light	416.04	108.05
26 55 53 11-0127	EA		26 Watt Compact Fluorescent NS Series Ruud Flood Light	432.70	108.05
26 55 53 11-0128	EA		32 Watt Compact Fluorescent NS Series Ruud Flood Light	437.46	108.05
26 55 53 11-0129	EA		42 Watt Compact Fluorescent NS Series Ruud Flood Light	442.22	108.05
26 55 53 11-0130 NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 55 53 11-0113)					
Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.					
26 55 53 11-0131 High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)					
26 55 53 11-0132	EA		150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	747.82	162.07
26 55 53 11-0133	EA		250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	790.66	162.07
26 55 53 11-0134	EA		400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light	814.46	162.07
26 55 53 11-0135 Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)					
26 55 53 11-0136	EA		175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	738.29	162.07
26 55 53 11-0137	EA		250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	743.06	162.07
26 55 53 11-0138	EA		400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light	757.34	162.07
26 55 53 11-0139 Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)					
26 55 53 11-0140	EA		70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light.....	721.63	162.07
26 55 53 11-0141 FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)					
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.					
26 55 53 11-0142 High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)					
26 55 53 11-0143	EA		250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	873.97	162.07
26 55 53 11-0144	EA		400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	878.73	162.07
26 55 53 11-0145	EA		1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	1,490.76	180.08



Electrical		26
Lighting		26 50
Special Purpose Lighting		26 55

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 55 53 11-0146		Metal Halide FS Series Ruud Flood Lights (26 55 53 11-0141)			
26 55 53 11-0147	EA	175 Watt Metal Halide FS Series Ruud Flood Light.....	873.97		162.07
26 55 53 11-0148	EA	250 Watt Metal Halide FS Series Ruud Flood Light.....	878.73		162.07
26 55 53 11-0149	EA	400 Watt Metal Halide FS Series Ruud Flood Light.....	893.01		162.07
26 55 53 11-0150	EA	1,000 Watt Metal Halide FS Series Ruud Flood Light.....	1,333.66		180.08
26 55 53 11-0151		MFS (Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)			
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.					
26 55 53 11-0152		High Pressure Sodium MFS Series Ruud Flood Lights (26 55 53 11-0151)			
26 55 53 11-0153	EA	35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	685.62		144.07
26 55 53 11-0154	EA	50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	735.61		144.07
26 55 53 11-0155	EA	70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	735.61		144.07
26 55 53 11-0156	EA	100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	735.61		144.07
26 55 53 11-0157	EA	150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	735.61		144.07
26 55 53 11-0158		Metal Halide MFS Series Ruud Flood Lights (26 55 53 11-0151)			
26 55 53 11-0159	EA	50 Watt Metal Halide MFS Series Ruud Flood Light.....	752.27		144.07
26 55 53 11-0160	EA	70 Watt Metal Halide MFS Series Ruud Flood Light.....	752.27		144.07
26 55 53 11-0161	EA	100 Watt Metal Halide MFS Series Ruud Flood Light.....	752.27		144.07
26 55 53 11-0162	EA	175 Watt Metal Halide MFS Series Ruud Flood Light.....	726.09		144.07
26 55 53 11-0163		MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights (26 55 53 11-0113)			
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.					
26 55 53 11-0164		High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)			
26 55 53 11-0165	EA	35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	745.13		144.07
26 55 53 11-0166	EA	50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	795.11		144.07
26 55 53 11-0167	EA	70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	795.11		144.07
26 55 53 11-0168	EA	100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	795.11		144.07
26 55 53 11-0169	EA	150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light	795.11		144.07
26 55 53 11-0170		Metal Halide MCF/MPM/MPN Series Ruud Flood Lights (26 55 53 11-0163)			
26 55 53 11-0171	EA	50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	811.77		144.07
26 55 53 11-0172	EA	70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	811.77		144.07
26 55 53 11-0173	EA	100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	811.77		144.07
26 55 53 11-0174	EA	175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light	785.59		144.07
26 55 53 11-0175		CF (Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)			
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.					
26 55 53 11-0176		High Pressure Sodium CF Series Ruud Flood Lights (26 55 53 11-0175)			
26 55 53 11-0177	EA	250 Watt High Pressure Sodium CF Series Ruud Flood Light	985.84		162.07
26 55 53 11-0178	EA	400 Watt High Pressure Sodium CF Series Ruud Flood Light	1,009.64		162.07
26 55 53 11-0179	EA	1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,550.26		180.08
26 55 53 11-0180		Metal Halide CF Series Ruud Flood Lights (26 55 53 11-0175)			
26 55 53 11-0181	EA	175 Watt Metal Halide CF Series Ruud Flood Light	933.47		162.07
26 55 53 11-0182	EA	250 Watt Metal Halide CF Series Ruud Flood Light	938.23		162.07
26 55 53 11-0183	EA	400 Watt Metal Halide CF Series Ruud Flood Light	952.51		162.07
26 55 53 11-0184	EA	1,000 Watt Metal Halide CF Series Ruud Flood Light	1,393.17		180.08
26 55 53 11-0185		CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights (26 55 53 11-0113)			
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.					
26 55 53 11-0186		High Pressure Sodium CN Series Ruud Flood Lights (26 55 53 11-0185)			
26 55 53 11-0187	EA	400 High Pressure Sodium CN Series Ruud Flood Light	1,274.16		180.08
26 55 53 11-0188	EA	1,000 High Pressure Sodium CN Series Ruud Flood Light	1,521.70		180.08
26 55 53 11-0189		Metal Halide CN Series Ruud Flood Lights (26 55 53 11-0185)			
26 55 53 11-0190	EA	400 Watt Metal Halide CN Series Ruud Flood Light.....	1,217.03		180.08
26 55 53 11-0191	EA	1,000 Watt Metal Halide CN Series Ruud Flood Light.....	1,364.60		180.08
26 55 53 11-0192		PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights (26 55 53 11-0113)			
Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.					
26 55 53 11-0193		High Pressure Sodium PM/PN Series Ruud Flood Lights (26 55 53 11-0192)			
26 55 53 11-0194	EA	250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,019.16		162.07

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0195 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,042.96	162.07
26 55 53 11-0196 Metal Halide PM/PN Series Ruud Flood Lights (26 55 53 11-0192)		
26 55 53 11-0197 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	966.79	162.07
26 55 53 11-0198 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	971.55	162.07
26 55 53 11-0199 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	985.84	162.07
26 55 53 11-0200 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,426.49	180.08
26 55 53 11-0201 Accessories For Ruud Flood Lighting (26 55 53 11-0113)		
26 55 53 11-0202 EA Wireguard For Rudd Flood Light.....	107.73	36.02
26 55 53 11-0203 EA Deep Baffle (Full Visor) For Rudd Flood Light	172.00	36.02
26 55 53 11-0204 EA Glare Guard (Upper Visor) For Rudd Flood Light	124.39	36.02
26 55 53 11-0205 EA Vandal Shield For Rudd Flood Light	148.20	36.02
26 55 53 11-0206 EA Pipe Mounting Bracket For Ruud Flood Light	297.03	108.05
26 55 53 11-0207 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	93.45	36.02
26 55 53 11-0208 Flood Lights (Lumark) (26 55 53 11)		
26 55 53 11-0209 QZ Wedge Series Quartz Lumark Flood Lights (26 55 53 11-0208)		
Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	264.78	108.05
26 55 53 11-0211 LQL Series Quartz Lumark Flood Lights (26 55 53 11-0208)		
Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212 EA 1,500 Watt LQL Series Quartz Lumark Flood Light	334.99	108.05
26 55 53 11-0213 Flood Lights (Kim Lighting) (26 55 53 11)		
26 55 53 11-0214 MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0213)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0215 LED MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0214)		
26 55 53 11-0216 EA 5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	559.73	45.53
For >50 To 100, Deduct	-16.27	
For >100 To 250, Deduct	-30.26	
For >250 To 500, Deduct	-55.97	
For >500, Deduct	-81.68	
26 55 53 11-0217 EA 15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	691.83	45.53
For >50 To 100, Deduct	-19.57	
For >100 To 250, Deduct	-36.87	
For >250 To 500, Deduct	-69.18	
For >500, Deduct	-101.50	
26 55 53 11-0218 Scarab® Series Kim Lighting Flood Lights (26 55 53 11-0213)		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
26 55 53 11-0219 LED Scarab® Series Kim Lighting Accent Flood Lights (26 55 53 11-0218)		
Note: Spot or narrow style accent flood lights.		
26 55 53 11-0220 EA 6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....	854.13	45.53
For >50 To 100, Deduct	-23.63	
For >100 To 250, Deduct	-44.98	
For >250 To 500, Deduct	-85.41	
For >500, Deduct	-125.84	
26 55 53 11-0221 Flood Lights (CREE® BetaLED®) (26 55 53 11)		
26 55 53 11-0222 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 55 53 11-0221)		
Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0223 EA 40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,277.27	130.24
For >50 To 100, Deduct	-38.44	
For >100 To 250, Deduct	-70.38	
For >250 To 500, Deduct	-127.73	
For >500, Deduct	-185.08	
26 55 53 11-0224 EA 60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,399.36	137.47
For >50 To 100, Deduct	-41.86	
For >100 To 250, Deduct	-76.84	
For >250 To 500, Deduct	-139.94	
For >500, Deduct	-203.03	



Electrical		26
Lighting		26 50
Special Purpose Lighting		26 55

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0225			Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG) (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0226	EA		20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,108.79	123.00
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-33.87	
			For >100 To 250, Deduct	-61.59	
			For >250 To 500, Deduct	-110.88	
			For >500, Deduct	-160.17	
26 55 53 11-0227	EA		40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,396.02	130.24
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-41.41	
			For >100 To 250, Deduct	-76.31	
			For >250 To 500, Deduct	-139.60	
			For >500, Deduct	-202.89	
26 55 53 11-0228	EA		60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,683.24	137.47
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-48.95	
			For >100 To 250, Deduct	-91.04	
			For >250 To 500, Deduct	-168.32	
			For >500, Deduct	-245.61	
26 55 53 11-0229	EA		80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,079.93	144.71
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-59.23	
			For >100 To 250, Deduct	-111.23	
			For >250 To 500, Deduct	-207.99	
			For >500, Deduct	-304.75	
26 55 53 11-0230	EA		100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,367.16	151.95
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-66.78	
			For >100 To 250, Deduct	-125.96	
			For >250 To 500, Deduct	-236.72	
			For >500, Deduct	-347.48	
26 55 53 11-0231	EA		120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,654.38	159.18
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-74.32	
			For >100 To 250, Deduct	-140.68	
			For >250 To 500, Deduct	-265.44	
			For >500, Deduct	-390.20	
26 55 53 11-0232	EA		140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	3,028.82	166.42
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-84.04	
			For >100 To 250, Deduct	-159.76	
			For >250 To 500, Deduct	-302.88	
			For >500, Deduct	-446.00	
26 55 53 11-0233	EA		160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	3,316.04	173.65
			For 347-480 Volt, Add	111.02	
			For >50 To 100, Deduct	-91.58	
			For >100 To 250, Deduct	-174.48	
			For >250 To 500, Deduct	-331.60	
			For >500, Deduct	-488.72	
26 55 53 11-0234			Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO) (26 55 53 11-0221) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0235	EA		120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	2,544.91	159.18
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Bird Spikes, Add	50.39	
			For 5,000K Color Temperature, Add	54.71	
			For Fuse, Add	65.65	
			For 0 To 10 Volt Dimming, Add	65.65	
			For 480 Volt, Add	98.48	
			For Multi-Level, Add	142.23	
			For 1,000mA Driver, Add	183.82	
			For >50 To 100, Deduct	-71.58	
			For >100 To 250, Deduct	-135.20	
			For >250 To 500, Deduct	-254.49	
			For >500, Deduct	-373.78	

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
26 55 53 11-0236	EA	240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	4,317.61		195.36	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88			
		For 5,000K Color Temperature, Add	54.71			
		For Fuse, Add	65.65			
		For 0 To 10 Volt Dimming, Add	65.65			
		For Bird Spikes, Add	74.70			
		For Multi-Level, Add	142.23			
		For 1,000mA Driver, Add	183.82			
		For 480 Volt, Add	196.94			
		For >50 To 100, Deduct	-117.71			
		For >100 To 250, Deduct	-225.65			
		For >250 To 500, Deduct	-431.76			
		For >500, Deduct	-637.87			
26 55 53 11-0237		Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™) (26 55 53 11-0221)				
		Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.				
26 55 53 11-0238	EA	112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL)	1,490.23		159.18	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88			
		For Front Facing Optics, Back Light Shield, Add	38.89			
		For Rotated Optics, Back Light Shield, Add	38.89			
		For Field Adjustable Output, Add	32.83			
		For Fuse, Add	65.65			
		For 0 To 10 Volt Dimming, Add	65.65			
		For Multi-Level, Add	142.23			
		For >50 To 100, Deduct	-45.21			
		For >100 To 250, Deduct	-82.47			
		For >250 To 500, Deduct	-149.02			
		For >500, Deduct	-215.58			
26 55 53 11-0239	EA	168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL)	1,593.63		159.18	
		Note: Type III, IV or V medium optics only.				
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88			
		For Front Facing Optics, Back Light Shield, Add	38.89			
		For Rotated Optics, Back Light Shield, Add	38.89			
		For Field Adjustable Output, Add	32.83			
		For Fuse, Add	65.65			
		For 0 To 10 Volt Dimming, Add	65.65			
		For Type II Medium Or Type V Short Optics, Add	364.65			
		For Multi-Level, Add	142.23			
		For >50 To 100, Deduct	-47.80			
		For >100 To 250, Deduct	-87.64			
		For >250 To 500, Deduct	-159.36			
		For >500, Deduct	-231.09			
26 55 53 11-0240	EA	223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL)	2,045.11		195.36	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88			
		For Field Adjustable Output, Add	32.83			
		For Front Facing Optics, Back Light Shield, Add	47.11			
		For Rotated Optics, Back Light Shield, Add	47.11			
		For Fuse, Add	65.65			
		For 0 To 10 Volt Dimming, Add	65.65			
		For Multi-Level, Add	142.23			
		For >50 To 100, Deduct	-60.90			
		For >100 To 250, Deduct	-112.02			
		For >250 To 500, Deduct	-204.51			
		For >500, Deduct	-297.00			
26 55 53 11-0241		Flood Lights (PlanLED) (26 55 53 11)				
26 55 53 11-0242		Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA) (26 55 53 11-0241)				
26 55 53 11-0243	EA	6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050)	686.93		130.24	
		For >50 To 100, Deduct	-23.69			
		For >100 To 250, Deduct	-40.86			
		For >250 To 500, Deduct	-68.69			
		For >500, Deduct	-96.53			
26 55 53 11-0244	EA	9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075)	821.69		137.47	
		For >50 To 100, Deduct	-27.42			
		For >100 To 250, Deduct	-47.96			
		For >250 To 500, Deduct	-82.17			
		For >500, Deduct	-116.38			
26 55 53 11-0245	EA	12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100)	948.37		148.33	
		For >50 To 100, Deduct	-31.13			
		For >100 To 250, Deduct	-54.84			
		For >250 To 500, Deduct	-94.84			
		For >500, Deduct	-134.84			
26 55 53 11-0246		Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA) (26 55 53 11-0241)				



Electrical		26	26
Lighting		26 50	
Special Purpose Lighting		26 55	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
26 55 53 11-0247	EA 21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200)	1,923.81		289.42
	For 0 To 10 Volt Dimming, Add	94.53		
	For >50 To 100, Deduct	-62.57		
	For >100 To 250, Deduct	-110.66		
	For >250 To 500, Deduct	-192.38		
	For >500, Deduct	-274.10		
26 55 53 11-0248	EA 42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400)	2,984.47		289.42
	For 0 To 10 Volt Dimming, Add	94.53		
	For >50 To 100, Deduct	-89.08		
	For >100 To 250, Deduct	-163.69		
	For >250 To 500, Deduct	-298.45		
	For >500, Deduct	-433.20		
26 55 53 11-0249	EA 84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800)	5,267.64		289.42
	For 0 To 10 Volt Dimming, Add	94.53		
	For >50 To 100, Deduct	-146.16		
	For >100 To 250, Deduct	-277.85		
	For >250 To 500, Deduct	-526.76		
	For >500, Deduct	-775.68		
26 55 53 11-0250 Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA) (26 55 53 11-0241)				
26 55 53 11-0251	EA 26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200)	1,703.71		188.13
	For 0 To 10 Volt Dimming, Add	94.53		
	For 347-480 Volt, Add	142.15		
	For >50 To 100, Deduct	-52.00		
	For >100 To 250, Deduct	-94.59		
	For >250 To 500, Deduct	-170.37		
	For >500, Deduct	-246.15		
26 55 53 11-0252	EA 39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300)	2,181.81		195.36
	For 0 To 10 Volt Dimming, Add	94.53		
	For 347-480 Volt, Add	114.92		
	For >50 To 100, Deduct	-64.31		
	For >100 To 250, Deduct	-118.86		
	For >250 To 500, Deduct	-218.18		
	For >500, Deduct	-317.50		
26 55 53 11-0253	EA 52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400)	2,784.58		202.60
	For 0 To 10 Volt Dimming, Add	94.53		
	For 347-480 Volt, Add	93.24		
	For >50 To 100, Deduct	-79.74		
	For >100 To 250, Deduct	-149.36		
	For >250 To 500, Deduct	-278.46		
	For >500, Deduct	-407.56		
26 55 68 Athletic Field Lighting (26 55)				
26 55 68 00-0001 Sports Lighting System (26 55 68)				
Note: Musco.				
26 55 68 00-0002 Round Steel Tapered Poles (26 55 68 00-0001)				
Note: With Internal wiring harness.				
26 55 68 00-0003	EA 20' Steel Tapered Pole With Precast Concrete Foundation Sleeve	4,239.51		691.51
26 55 68 00-0004	EA 25' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,101.15		835.58
26 55 68 00-0005	EA 30' Steel Tapered Pole With Precast Concrete Foundation Sleeve	5,752.14		907.61
26 55 68 00-0006	EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve	6,294.08		943.63
26 55 68 00-0007	EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve	7,912.76		979.64
26 55 68 00-0008	EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,075.21		1,195.73
26 55 68 00-0009	EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve	9,753.96		1,267.77
26 55 68 00-0010	EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve	11,080.00		1,440.65
26 55 68 00-0011	EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve	12,580.86		1,620.73
26 55 68 00-0012	EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve	13,920.56		1,791.53
26 55 68 00-0013	EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve	15,179.80		2,002.30
26 55 68 00-0014	EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve	16,544.93		2,248.20
26 55 68 00-0015	EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve	18,545.46		2,704.86
26 55 68 00-0016 Steel Pole Brackets (26 55 68 00-0001)				
26 55 68 00-0017	EA Two Light Bracket	649.37		72.03
26 55 68 00-0018	EA Three Light Bracket	816.78		100.84
26 55 68 00-0019	EA Four Light Bracket	1,178.64		122.46
26 55 68 00-0020	EA Five Light Bracket	1,342.30		144.07
26 55 68 00-0021	EA Six Light Bracket	1,628.58		165.68
26 55 68 00-0022	EA Seven Light Bracket	1,864.81		187.28
26 55 68 00-0023	EA Eight Light Bracket	2,132.42		216.10
26 55 68 00-0024	EA Nine Light Bracket	2,409.54		237.71
26 55 68 00-0025 Light Fixtures (26 55 68 00-0001)				
26 55 68 00-0026	EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug	1,464.78		
	For 1,500 Watt Metal Halide Lamp, Add	15.61		

26 Electrical**26 50 Lighting****26 55 Special Purpose Lighting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 55 68 00-0027	Electrical Component Enclosure (26 55 68 00-0001)			
	Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.			
26 55 68 00-0028	EA	Electrical Component Enclosure For 2 Lights, Pole Mounted	1,051.41	84.36
26 55 68 00-0029	EA	Electrical Component Enclosure For 3 Lights, Pole Mounted	1,577.72	129.79
26 55 68 00-0030	EA	Electrical Component Enclosure For 4 Lights, Pole Mounted	1,810.23	162.24
26 55 68 00-0031	EA	Electrical Component Enclosure For 5 Lights, Pole Mounted	2,340.63	181.70
26 55 68 00-0032	EA	Electrical Component Enclosure For 6 Lights, Pole Mounted	2,632.00	194.68
26 55 68 00-0033	Accessories (26 55 68 00-0001)			
26 55 68 00-0034	EA	Time Delay Kit (Musco®)	1,071.28	260.18
26 55 68 00-0035	EA	Remote Switch Box Push Button (Musco®)	2,173.14	260.18
26 55 68 00-0036	EA	Push Button Strobe Kit (Musco®)	2,613.88	260.18
26 55 68 00-0037	EA	Additional Control-Link Unit (Musco®)	12,579.63	780.52
26 55 68 00-0038	EA	Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®)	1,361.44	129.79
26 55 68 00-0039	EA	Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®)	1,621.02	259.58

26 56 Exterior Lighting (26 50)**26 56 13 Lighting Poles and Standards** (26 56)

26 56 13 00-0001	Poles And Standards (26 56 13)			
	See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.			
26 56 13 00-0002	Roadway Light Poles (26 56 13 00-0001)			
	Note: Excludes lighting fixtures.			
26 56 13 00-0003	Steel Roadway Light Poles (26 56 13 00-0002)			
	Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).			
26 56 13 00-0004	Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)			
26 56 13 00-0005	Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)			
26 56 13 00-0006	Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)			
26 56 13 00-0007	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	2,757.85	432.19
		For Galvanized Finish, Add	56.80	
		For >10 To 20, Deduct	-68.95	
		For >20 To 40, Deduct	-137.89	
		For >40, Deduct	-228.45	
26 56 13 00-0008	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	2,762.53	432.19
		For Galvanized Finish, Add	56.94	
		For >10 To 20, Deduct	-69.06	
		For >20 To 40, Deduct	-138.13	
		For >40, Deduct	-228.80	
26 56 13 00-0009	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,078.39	576.26
		For Galvanized Finish, Add	57.78	
		For >10 To 20, Deduct	-76.96	
		For >20 To 40, Deduct	-153.92	
		For >40, Deduct	-259.69	
26 56 13 00-0010	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,134.66	576.26
		For Galvanized Finish, Add	59.46	
		For >10 To 20, Deduct	-78.37	
		For >20 To 40, Deduct	-156.73	
		For >40, Deduct	-263.91	
26 56 13 00-0011	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	3,190.94	576.26
		For Galvanized Finish, Add	61.15	
		For >10 To 20, Deduct	-79.77	
		For >20 To 40, Deduct	-159.55	
		For >40, Deduct	-268.13	
26 56 13 00-0012	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,346.85	648.29
		For Galvanized Finish, Add	61.51	
		For >10 To 20, Deduct	-83.67	
		For >20 To 40, Deduct	-167.34	
		For >40, Deduct	-283.43	
26 56 13 00-0013	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,373.53	648.29
		For Galvanized Finish, Add	62.31	
		For >10 To 20, Deduct	-84.34	
		For >20 To 40, Deduct	-168.68	
		For >40, Deduct	-285.43	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 56 13 00-0014	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,378.61	648.29
		For Galvanized Finish, Add	62.46	
		For >10 To 20, Deduct	-84.47	
		For >20 To 40, Deduct	-168.93	
		For >40, Deduct	-285.81	
26 56 13 00-0015	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,545.38	684.31
		For Galvanized Finish, Add	65.30	
		For >10 To 20, Deduct	-88.63	
		For >20 To 40, Deduct	-177.27	
		For >40, Deduct	-300.12	
26 56 13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,565.54	684.31
		For Galvanized Finish, Add	65.91	
		For >10 To 20, Deduct	-89.14	
		For >20 To 40, Deduct	-178.28	
		For >40, Deduct	-301.63	
26 56 13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,587.55	684.31
		For Galvanized Finish, Add	66.57	
		For >10 To 20, Deduct	-89.69	
		For >20 To 40, Deduct	-179.38	
		For >40, Deduct	-303.28	
26 56 13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,053.81	720.33
		For Galvanized Finish, Add	78.39	
		For >10 To 20, Deduct	-101.35	
		For >20 To 40, Deduct	-202.69	
		For >40, Deduct	-340.05	
26 56 13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,060.99	720.33
		For Galvanized Finish, Add	78.61	
		For >10 To 20, Deduct	-101.52	
		For >20 To 40, Deduct	-203.05	
		For >40, Deduct	-340.59	
26 56 13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,068.08	720.33
		For Galvanized Finish, Add	78.82	
		For >10 To 20, Deduct	-101.70	
		For >20 To 40, Deduct	-203.40	
		For >40, Deduct	-341.12	
26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0005)				
26 56 13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,412.64	504.23
		For Galvanized Finish, Add	72.13	
		For >10 To 20, Deduct	-85.32	
		For >20 To 40, Deduct	-170.63	
		For >40, Deduct	-281.16	
26 56 13 00-0023	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,478.73	522.24
		For Galvanized Finish, Add	73.03	
		For >10 To 20, Deduct	-86.97	
		For >20 To 40, Deduct	-173.94	
		For >40, Deduct	-287.02	
26 56 13 00-0024	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,537.40	540.24
		For Galvanized Finish, Add	73.71	
		For >10 To 20, Deduct	-88.44	
		For >20 To 40, Deduct	-176.87	
		For >40, Deduct	-292.32	
26 56 13 00-0025	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,505.83	648.29
		For Galvanized Finish, Add	66.28	
		For >10 To 20, Deduct	-87.65	
		For >20 To 40, Deduct	-175.29	
		For >40, Deduct	-295.35	
26 56 13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,553.78	666.30
		For Galvanized Finish, Add	66.64	
		For >10 To 20, Deduct	-88.84	
		For >20 To 40, Deduct	-177.69	
		For >40, Deduct	-299.85	
26 56 13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,594.64	684.31
		For Galvanized Finish, Add	66.78	
		For >10 To 20, Deduct	-89.87	
		For >20 To 40, Deduct	-179.73	
		For >40, Deduct	-303.81	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
26 56 13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,797.28	720.33	
		For Galvanized Finish, Add	70.70		
		For >10 To 20, Deduct	-94.93		
		For >20 To 40, Deduct	-189.86		
		For >40, Deduct	-320.81		
26 56 13 00-0029	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,840.54	738.33	
		For Galvanized Finish, Add	70.92		
		For >10 To 20, Deduct	-96.01		
		For >20 To 40, Deduct	-192.03		
		For >40, Deduct	-324.96		
26 56 13 00-0030	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	3,881.16	756.34	
		For Galvanized Finish, Add	71.05		
		For >10 To 20, Deduct	-97.03		
		For >20 To 40, Deduct	-194.06		
		For >40, Deduct	-328.90		
26 56 13 00-0031	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,023.70	756.34	
		For Galvanized Finish, Add	75.33		
		For >10 To 20, Deduct	-100.59		
		For >20 To 40, Deduct	-201.19		
		For >40, Deduct	-339.59		
26 56 13 00-0032	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,090.91	774.35	
		For Galvanized Finish, Add	76.27		
		For >10 To 20, Deduct	-102.27		
		For >20 To 40, Deduct	-204.55		
		For >40, Deduct	-345.54		
26 56 13 00-0033	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,156.51	792.36	
		For Galvanized Finish, Add	77.15		
		For >10 To 20, Deduct	-103.91		
		For >20 To 40, Deduct	-207.83		
		For >40, Deduct	-351.36		
26 56 13 00-0034	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,504.39	792.36	
		For Galvanized Finish, Add	87.59		
		For >10 To 20, Deduct	-112.61		
		For >20 To 40, Deduct	-225.22		
		For >40, Deduct	-377.45		
26 56 13 00-0035	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,545.09	810.36	
		For Galvanized Finish, Add	87.73		
		For >10 To 20, Deduct	-113.63		
		For >20 To 40, Deduct	-227.25		
		For >40, Deduct	-381.40		
26 56 13 00-0036	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,585.94	828.38	
		For Galvanized Finish, Add	87.88		
		For >10 To 20, Deduct	-114.65		
		For >20 To 40, Deduct	-229.30		
		For >40, Deduct	-385.36		

26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms
(26 56 13 00-0005)

26 56 13 00-0038	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,091.87	720.33	
		For Galvanized Finish, Add	79.54		
		For >10 To 20, Deduct	-102.30		
		For >20 To 40, Deduct	-204.59		
		For >40, Deduct	-342.91		
26 56 13 00-0039	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	4,168.65	756.34	
		For Galvanized Finish, Add	79.68		
		For >10 To 20, Deduct	-104.22		
		For >20 To 40, Deduct	-208.43		
		For >40, Deduct	-350.47		
26 56 13 00-0040	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	4,252.53	792.36	
		For Galvanized Finish, Add	80.03		
		For >10 To 20, Deduct	-106.31		
		For >20 To 40, Deduct	-212.63		
		For >40, Deduct	-358.56		
26 56 13 00-0041	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	4,354.76	792.36	
		For Galvanized Finish, Add	83.10		
		For >10 To 20, Deduct	-108.87		
		For >20 To 40, Deduct	-217.74		
		For >40, Deduct	-366.22		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 56 13 00-0042	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,433.80	828.38
		For Galvanized Finish, Add	83.31	
		For >10 To 20, Deduct	-110.85	
		For >20 To 40, Deduct	-221.69	
		For >40, Deduct	-373.95	
26 56 13 00-0043	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,510.60	864.39
		For Galvanized Finish, Add	83.45	
		For >10 To 20, Deduct	-112.77	
		For >20 To 40, Deduct	-225.53	
		For >40, Deduct	-381.51	
26 56 13 00-0044	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,621.41	828.38
		For Galvanized Finish, Add	88.94	
		For >10 To 20, Deduct	-115.54	
		For >20 To 40, Deduct	-231.07	
		For >40, Deduct	-388.02	
26 56 13 00-0045	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,698.21	864.39
		For Galvanized Finish, Add	89.08	
		For >10 To 20, Deduct	-117.46	
		For >20 To 40, Deduct	-234.91	
		For >40, Deduct	-395.59	
26 56 13 00-0046	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	4,774.99	900.40
		For Galvanized Finish, Add	89.23	
		For >10 To 20, Deduct	-119.37	
		For >20 To 40, Deduct	-238.75	
		For >40, Deduct	-403.14	
26 56 13 00-0047	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,954.98	864.39
		For Galvanized Finish, Add	96.79	
		For >10 To 20, Deduct	-123.87	
		For >20 To 40, Deduct	-247.75	
		For >40, Deduct	-414.84	
26 56 13 00-0048	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,031.53	900.40
		For Galvanized Finish, Add	96.92	
		For >10 To 20, Deduct	-125.79	
		For >20 To 40, Deduct	-251.58	
		For >40, Deduct	-422.39	
26 56 13 00-0049	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	5,113.07	936.42
		For Galvanized Finish, Add	97.21	
		For >10 To 20, Deduct	-127.83	
		For >20 To 40, Deduct	-255.65	
		For >40, Deduct	-430.30	
26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0005)				
26 56 13 00-0051	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,544.78	792.36
		For Galvanized Finish, Add	88.80	
		For >10 To 20, Deduct	-113.62	
		For >20 To 40, Deduct	-227.24	
		For >40, Deduct	-380.48	
26 56 13 00-0052	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,659.93	846.38
		For Galvanized Finish, Add	89.02	
		For >10 To 20, Deduct	-116.50	
		For >20 To 40, Deduct	-233.00	
		For >40, Deduct	-391.81	
26 56 13 00-0053	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	4,772.65	900.40
		For Galvanized Finish, Add	89.16	
		For >10 To 20, Deduct	-119.32	
		For >20 To 40, Deduct	-238.63	
		For >40, Deduct	-402.97	
26 56 13 00-0054	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,836.79	864.39
		For Galvanized Finish, Add	93.24	
		For >10 To 20, Deduct	-120.92	
		For >20 To 40, Deduct	-241.84	
		For >40, Deduct	-405.98	
26 56 13 00-0055	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,949.84	918.41
		For Galvanized Finish, Add	93.39	
		For >10 To 20, Deduct	-123.75	
		For >20 To 40, Deduct	-247.49	
		For >40, Deduct	-417.16	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 13 00-0056	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base		5,035.48	972.43
		For Galvanized Finish, Add		92.72	
		For >10 To 20, Deduct		-125.89	
		For >20 To 40, Deduct		-251.77	
		For >40, Deduct		-426.28	
26 56 13 00-0057	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base		5,178.82	900.40
		For Galvanized Finish, Add		101.34	
		For >10 To 20, Deduct		-129.47	
		For >20 To 40, Deduct		-258.94	
		For >40, Deduct		-433.43	
26 56 13 00-0058	EA	35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base		5,323.96	954.43
		For Galvanized Finish, Add		102.45	
		For >10 To 20, Deduct		-133.10	
		For >20 To 40, Deduct		-266.20	
		For >40, Deduct		-447.02	
26 56 13 00-0059	EA	35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base		5,406.93	1,008.45
		For Galvanized Finish, Add		101.70	
		For >10 To 20, Deduct		-135.17	
		For >20 To 40, Deduct		-270.35	
		For >40, Deduct		-455.94	
26 56 13 00-0060	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base		5,405.32	936.42
		For Galvanized Finish, Add		105.97	
		For >10 To 20, Deduct		-135.13	
		For >20 To 40, Deduct		-270.27	
		For >40, Deduct		-452.22	
26 56 13 00-0061	EA	40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base		5,518.05	990.45
		For Galvanized Finish, Add		106.11	
		For >10 To 20, Deduct		-137.95	
		For >20 To 40, Deduct		-275.90	
		For >40, Deduct		-463.38	
26 56 13 00-0062	EA	40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base		5,633.18	1,044.47
		For Galvanized Finish, Add		106.33	
		For >10 To 20, Deduct		-140.83	
		For >20 To 40, Deduct		-281.66	
		For >40, Deduct		-474.71	
26 56 13 00-0063		Round Tapered, Steel Roadway Light Poles With Davit Style Arm (26 56 13 00-0004)			
26 56 13 00-0064		Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0063)			
26 56 13 00-0065	EA	25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base		3,252.53	576.26
		For Galvanized Finish, Add		63.00	
		For >10 To 20, Deduct		-81.31	
		For >20 To 40, Deduct		-162.63	
		For >40, Deduct		-272.75	
26 56 13 00-0066	EA	30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base		3,678.04	648.29
		For Galvanized Finish, Add		71.44	
		For >10 To 20, Deduct		-91.95	
		For >20 To 40, Deduct		-183.90	
		For >40, Deduct		-308.27	
26 56 13 00-0067	EA	35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base		3,789.26	684.31
		For Galvanized Finish, Add		72.62	
		For >10 To 20, Deduct		-94.73	
		For >20 To 40, Deduct		-189.46	
		For >40, Deduct		-318.41	
26 56 13 00-0068	EA	40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base		4,462.40	720.33
		For Galvanized Finish, Add		90.65	
		For >10 To 20, Deduct		-111.56	
		For >20 To 40, Deduct		-223.12	
		For >40, Deduct		-370.70	
26 56 13 00-0069		Round Tapered, Steel Roadway Light Poles With Truss Style Arms (26 56 13 00-0004)			
26 56 13 00-0070		Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0069)			
26 56 13 00-0071	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base		4,093.16	576.26
		For Galvanized Finish, Add		88.22	
		For >10 To 20, Deduct		-102.33	
		For >20 To 40, Deduct		-204.66	
		For >40, Deduct		-335.80	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 56 13 00-0072	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,129.20	576.26
		For Galvanized Finish, Add	89.30	
		For >10 To 20, Deduct	-103.23	
		For >20 To 40, Deduct	-206.46	
		For >40, Deduct	-338.50	
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,145.65	576.26
		For Galvanized Finish, Add	89.79	
		For >10 To 20, Deduct	-103.64	
		For >20 To 40, Deduct	-207.28	
		For >40, Deduct	-339.74	
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,273.26	648.29
		For Galvanized Finish, Add	89.30	
		For >10 To 20, Deduct	-106.83	
		For >20 To 40, Deduct	-213.66	
		For >40, Deduct	-352.91	
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,279.55	648.29
		For Galvanized Finish, Add	89.49	
		For >10 To 20, Deduct	-106.99	
		For >20 To 40, Deduct	-213.98	
		For >40, Deduct	-353.38	
26 56 13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,344.53	648.29
		For Galvanized Finish, Add	91.44	
		For >10 To 20, Deduct	-108.61	
		For >20 To 40, Deduct	-217.23	
		For >40, Deduct	-358.25	
26 56 13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,366.67	684.31
		For Galvanized Finish, Add	89.94	
		For >10 To 20, Deduct	-109.17	
		For >20 To 40, Deduct	-218.33	
		For >40, Deduct	-361.72	
26 56 13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,404.72	684.31
		For Galvanized Finish, Add	91.08	
		For >10 To 20, Deduct	-110.12	
		For >20 To 40, Deduct	-220.24	
		For >40, Deduct	-364.57	
26 56 13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,604.26	684.31
		For Galvanized Finish, Add	97.07	
		For >10 To 20, Deduct	-115.11	
		For >20 To 40, Deduct	-230.21	
		For >40, Deduct	-379.54	
26 56 13 00-0080		Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0089)		
26 56 13 00-0081	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,340.04	720.33
		For Galvanized Finish, Add	116.98	
		For >10 To 20, Deduct	-133.50	
		For >20 To 40, Deduct	-267.00	
		For >40, Deduct	-436.52	
26 56 13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,446.57	756.34
		For Galvanized Finish, Add	118.02	
		For >10 To 20, Deduct	-136.16	
		For >20 To 40, Deduct	-272.33	
		For >40, Deduct	-446.31	
26 56 13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,654.04	792.36
		For Galvanized Finish, Add	122.08	
		For >10 To 20, Deduct	-141.35	
		For >20 To 40, Deduct	-282.70	
		For >40, Deduct	-463.67	
26 56 13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,464.10	792.36
		For Galvanized Finish, Add	116.38	
		For >10 To 20, Deduct	-136.60	
		For >20 To 40, Deduct	-273.21	
		For >40, Deduct	-449.43	
26 56 13 00-0085	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,714.38	828.38
		For Galvanized Finish, Add	121.73	
		For >10 To 20, Deduct	-142.86	
		For >20 To 40, Deduct	-285.72	
		For >40, Deduct	-470.00	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0086	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,874.14	864.39
			For Galvanized Finish, Add.....	124.36	
			For >10 To 20, Deduct.....	-146.85	
			For >20 To 40, Deduct.....	-293.71	
			For >40, Deduct.....	-483.78	
26 56 13 00-0087	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,635.70	828.38
			For Galvanized Finish, Add.....	119.37	
			For >10 To 20, Deduct.....	-140.89	
			For >20 To 40, Deduct.....	-281.79	
			For >40, Deduct.....	-464.10	
26 56 13 00-0088	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,962.02	864.39
			For Galvanized Finish, Add.....	127.00	
			For >10 To 20, Deduct.....	-149.05	
			For >20 To 40, Deduct.....	-298.10	
			For >40, Deduct.....	-490.37	
26 56 13 00-0089	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,164.65	900.40
			For Galvanized Finish, Add.....	130.92	
			For >10 To 20, Deduct.....	-154.12	
			For >20 To 40, Deduct.....	-308.23	
			For >40, Deduct.....	-507.37	
26 56 13 00-0090			Aluminum Roadway Light Poles (26 56 13 00-0092) Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091			Round Tapered, Aluminum Roadway Light Poles (26 56 13 00-0090)		
26 56 13 00-0092			Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0091)		
26 56 13 00-0093			Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0092)		
26 56 13 00-0094	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,584.78	432.19
			For >10 To 20, Deduct.....	-64.62	
			For >20 To 40, Deduct.....	-129.24	
			For >40, Deduct.....	-215.47	
26 56 13 00-0095	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,605.60	432.19
			For >10 To 20, Deduct.....	-65.14	
			For >20 To 40, Deduct.....	-130.28	
			For >40, Deduct.....	-217.03	
26 56 13 00-0096	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,187.26	576.26
			For >10 To 20, Deduct.....	-79.68	
			For >20 To 40, Deduct.....	-159.36	
			For >40, Deduct.....	-267.86	
26 56 13 00-0097	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,226.61	576.26
			For >10 To 20, Deduct.....	-80.67	
			For >20 To 40, Deduct.....	-161.33	
			For >40, Deduct.....	-270.81	
26 56 13 00-0098	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,262.80	576.26
			For >10 To 20, Deduct.....	-81.57	
			For >20 To 40, Deduct.....	-163.14	
			For >40, Deduct.....	-273.52	
26 56 13 00-0099	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,653.28	648.29
			For >10 To 20, Deduct.....	-91.33	
			For >20 To 40, Deduct.....	-182.66	
			For >40, Deduct.....	-306.41	
26 56 13 00-0100	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,686.48	648.29
			For >10 To 20, Deduct.....	-92.16	
			For >20 To 40, Deduct.....	-184.32	
			For >40, Deduct.....	-308.90	
26 56 13 00-0101	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,723.61	648.29
			For >10 To 20, Deduct.....	-93.09	
			For >20 To 40, Deduct.....	-186.18	
			For >40, Deduct.....	-311.69	
26 56 13 00-0102	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,250.58	684.31
			For >10 To 20, Deduct.....	-106.26	
			For >20 To 40, Deduct.....	-212.53	
			For >40, Deduct.....	-353.01	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0103	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,283.70	684.31
			For >10 To 20, Deduct	-107.09	
			For >20 To 40, Deduct	-214.19	
			For >40, Deduct	-355.49	
26 56 13 00-0104	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,311.44	684.31
			For >10 To 20, Deduct	-107.79	
			For >20 To 40, Deduct	-215.57	
			For >40, Deduct	-357.57	
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0092)					
26 56 13 00-0106	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	2,965.27	504.23
			For >10 To 20, Deduct	-74.13	
			For >20 To 40, Deduct	-148.26	
			For >40, Deduct	-247.61	
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,169.35	504.23
			For >10 To 20, Deduct	-79.23	
			For >20 To 40, Deduct	-158.47	
			For >40, Deduct	-262.91	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,281.15	540.24
			For >10 To 20, Deduct	-82.03	
			For >20 To 40, Deduct	-164.06	
			For >40, Deduct	-273.10	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,556.57	648.29
			For >10 To 20, Deduct	-88.91	
			For >20 To 40, Deduct	-177.83	
			For >40, Deduct	-299.16	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,722.50	666.30
			For >10 To 20, Deduct	-93.06	
			For >20 To 40, Deduct	-186.13	
			For >40, Deduct	-312.50	
26 56 13 00-0111	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,958.68	684.31
			For >10 To 20, Deduct	-98.97	
			For >20 To 40, Deduct	-197.93	
			For >40, Deduct	-331.12	
26 56 13 00-0112	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,094.12	720.33
			For >10 To 20, Deduct	-102.35	
			For >20 To 40, Deduct	-204.71	
			For >40, Deduct	-343.08	
26 56 13 00-0113	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,250.65	738.33
			For >10 To 20, Deduct	-106.27	
			For >20 To 40, Deduct	-212.53	
			For >40, Deduct	-355.72	
26 56 13 00-0114	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,440.14	756.34
			For >10 To 20, Deduct	-111.00	
			For >20 To 40, Deduct	-222.01	
			For >40, Deduct	-370.83	
26 56 13 00-0115	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,620.66	756.34
			For >10 To 20, Deduct	-115.52	
			For >20 To 40, Deduct	-231.03	
			For >40, Deduct	-384.37	
26 56 13 00-0116	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,032.40	774.35
			For >10 To 20, Deduct	-125.81	
			For >20 To 40, Deduct	-251.62	
			For >40, Deduct	-416.15	
26 56 13 00-0117	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,510.12	792.36
			For >10 To 20, Deduct	-137.75	
			For >20 To 40, Deduct	-275.51	
			For >40, Deduct	-452.88	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0092)					
26 56 13 00-0119	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	3,437.86	576.26
			For >10 To 20, Deduct	-85.95	
			For >20 To 40, Deduct	-171.89	
			For >40, Deduct	-286.65	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
26 56 13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		3,674.97		612.28
		For >10 To 20, Deduct		-91.87		
		For >20 To 40, Deduct		-183.75		
		For >40, Deduct		-306.24		
26 56 13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		4,188.10		720.33
		For >10 To 20, Deduct		-104.70		
		For >20 To 40, Deduct		-209.41		
		For >40, Deduct		-350.12		
26 56 13 00-0122	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		4,369.29		756.34
		For >10 To 20, Deduct		-109.23		
		For >20 To 40, Deduct		-218.46		
		For >40, Deduct		-365.51		
26 56 13 00-0123	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		4,575.93		792.36
		For >10 To 20, Deduct		-114.40		
		For >20 To 40, Deduct		-228.80		
		For >40, Deduct		-382.81		
26 56 13 00-0124	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		4,741.93		828.38
		For >10 To 20, Deduct		-118.55		
		For >20 To 40, Deduct		-237.10		
		For >40, Deduct		-397.06		
26 56 13 00-0125	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		4,937.39		828.38
		For >10 To 20, Deduct		-123.43		
		For >20 To 40, Deduct		-246.87		
		For >40, Deduct		-411.72		
26 56 13 00-0126	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		5,356.31		864.39
		For >10 To 20, Deduct		-133.91		
		For >20 To 40, Deduct		-267.82		
		For >40, Deduct		-444.94		
26 56 13 00-0127	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base		11,795.25		900.40
		For >10 To 20, Deduct		-294.88		
		For >20 To 40, Deduct		-589.76		
		For >40, Deduct		-929.66		
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms						
(26 56 13 00-0092)						
26 56 13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base		3,581.41		648.29
		For >10 To 20, Deduct		-89.54		
		For >20 To 40, Deduct		-179.07		
		For >40, Deduct		-301.02		
26 56 13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base		3,706.37		648.29
		For >10 To 20, Deduct		-92.66		
		For >20 To 40, Deduct		-185.32		
		For >40, Deduct		-310.39		
26 56 13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base		4,583.69		792.36
		For >10 To 20, Deduct		-114.59		
		For >20 To 40, Deduct		-229.18		
		For >40, Deduct		-383.39		
26 56 13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base		4,958.13		846.38
		For >10 To 20, Deduct		-123.95		
		For >20 To 40, Deduct		-247.91		
		For >40, Deduct		-414.18		
26 56 13 00-0133	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base		5,164.35		864.39
		For >10 To 20, Deduct		-129.11		
		For >20 To 40, Deduct		-258.22		
		For >40, Deduct		-430.55		
26 56 13 00-0134	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base		5,511.13		918.41
		For >10 To 20, Deduct		-137.78		
		For >20 To 40, Deduct		-275.56		
		For >40, Deduct		-459.26		
26 56 13 00-0135	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base		5,434.48		900.40
		For >10 To 20, Deduct		-135.86		
		For >20 To 40, Deduct		-271.72		
		For >40, Deduct		-452.61		
26 56 13 00-0136	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base		6,154.26		954.43
		For >10 To 20, Deduct		-153.86		
		For >20 To 40, Deduct		-307.71		
		For >40, Deduct		-509.29		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0137	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,793.04 -169.83 -339.65 -559.90	1,008.45
26 56 13 00-0138		Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms (26 56 13 00-0091)		
26 56 13 00-0139		Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0138)		
26 56 13 00-0140	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,765.45 -94.14 -188.27 -311.22	576.26
26 56 13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,793.28 -94.83 -189.66 -313.31	576.26
26 56 13 00-0142	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,864.37 -96.61 -193.22 -318.64	576.26
26 56 13 00-0143	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,971.07 -99.28 -198.55 -326.64	576.26
26 56 13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,239.40 -105.99 -211.97 -350.37	648.29
26 56 13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,302.14 -107.55 -215.11 -355.08	648.29
26 56 13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,369.05 -109.23 -218.45 -360.09	648.29
26 56 13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,772.69 -119.32 -238.63 -390.37	648.29
26 56 13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,598.49 -114.96 -229.92 -379.10	684.31
26 56 13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,116.41 -127.91 -255.82 -417.95	684.31
26 56 13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,166.86 -129.17 -258.34 -421.73	684.31
26 56 13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,487.10 -137.18 -274.36 -445.75	684.31
26 56 13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,779.18 -144.48 -288.96 -467.65	684.31
26 56 13 00-0153		Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0138)		
26 56 13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base..... <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	4,876.22 -121.91 -243.81 -401.73	720.33

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0155	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,019.35	756.34
			For >10 To 20, Deduct.....	-125.48	
			For >20 To 40, Deduct.....	-250.97	
			For >40, Deduct.....	-414.27	
26 56 13 00-0156	EA		25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,137.13	792.36
			For >10 To 20, Deduct.....	-128.43	
			For >20 To 40, Deduct.....	-256.86	
			For >40, Deduct.....	-424.90	
26 56 13 00-0157	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,259.01	792.36
			For >10 To 20, Deduct.....	-131.48	
			For >20 To 40, Deduct.....	-262.95	
			For >40, Deduct.....	-434.04	
26 56 13 00-0158	EA		30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,701.65	828.38
			For >10 To 20, Deduct.....	-142.54	
			For >20 To 40, Deduct.....	-285.08	
			For >40, Deduct.....	-469.04	
26 56 13 00-0159	EA		30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,504.91	864.39
			For >10 To 20, Deduct.....	-162.62	
			For >20 To 40, Deduct.....	-325.25	
			For >40, Deduct.....	-531.09	
26 56 13 00-0160	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,288.11	828.38
			For >10 To 20, Deduct.....	-157.20	
			For >20 To 40, Deduct.....	-314.41	
			For >40, Deduct.....	-513.03	
26 56 13 00-0161	EA		35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,419.73	864.39
			For >10 To 20, Deduct.....	-160.49	
			For >20 To 40, Deduct.....	-320.99	
			For >40, Deduct.....	-524.70	
26 56 13 00-0162	EA		35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,742.19	900.40
			For >10 To 20, Deduct.....	-193.55	
			For >20 To 40, Deduct.....	-387.11	
			For >40, Deduct.....	-625.68	
26 56 13 00-0163			Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm (26 56 13 00-0091)		
26 56 13 00-0164			Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0163)		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,071.12	432.19
			For >10 To 20, Deduct.....	-76.78	
			For >20 To 40, Deduct.....	-153.56	
			For >40, Deduct.....	-251.94	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,149.73	432.19
			For >10 To 20, Deduct.....	-78.74	
			For >20 To 40, Deduct.....	-157.49	
			For >40, Deduct.....	-257.84	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,228.51	432.19
			For >10 To 20, Deduct.....	-80.71	
			For >20 To 40, Deduct.....	-161.43	
			For >40, Deduct.....	-263.75	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,680.69	576.26
			For >10 To 20, Deduct.....	-92.02	
			For >20 To 40, Deduct.....	-184.03	
			For >40, Deduct.....	-304.86	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,740.61	576.26
			For >10 To 20, Deduct.....	-93.52	
			For >20 To 40, Deduct.....	-187.03	
			For >40, Deduct.....	-309.36	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,806.08	576.26
			For >10 To 20, Deduct.....	-95.15	
			For >20 To 40, Deduct.....	-190.30	
			For >40, Deduct.....	-314.27	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,153.19	648.29
			For >10 To 20, Deduct.....	-103.83	
			For >20 To 40, Deduct.....	-207.66	
			For >40, Deduct.....	-343.90	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	4,234.54	648.29
			For >10 To 20, Deduct.....	-105.86	
			For >20 To 40, Deduct.....	-211.73	
			For >40, Deduct.....	-350.01	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 56 13 00-0173	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	4,246.74	648.29
		For >10 To 20, Deduct	-106.17	
		For >20 To 40, Deduct	-212.34	
		For >40, Deduct	-350.92	
26 56 13 00-0174	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base	4,514.67	684.31
		For >10 To 20, Deduct	-112.87	
		For >20 To 40, Deduct	-225.73	
		For >40, Deduct	-372.82	
26 56 13 00-0175	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base	4,550.35	684.31
		For >10 To 20, Deduct	-113.76	
		For >20 To 40, Deduct	-227.52	
		For >40, Deduct	-375.49	
26 56 13 00-0176	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base	4,633.99	684.31
		For >10 To 20, Deduct	-115.85	
		For >20 To 40, Deduct	-231.70	
		For >40, Deduct	-381.76	
26 56 13 00-0177		Area Light Poles (26 56 13 00-0001)		
		Note: Excludes lighting fixtures.		
26 56 13 00-0178		Steel Area Light Poles (26 56 13 00-0177)		
		Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179		Round Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0180		Round Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0179)		
26 56 13 00-0181	EA	10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,365.46	252.12
		For Galvanized Finish, Add	25.84	
		For >10 To 20, Deduct	-47.05	
		For >20 To 40, Deduct	-85.50	
		For >40, Deduct	-179.61	
26 56 13 00-0182	EA	12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,485.20	288.13
		For Galvanized Finish, Add	27.27	
		For >10 To 20, Deduct	-50.76	
		For >20 To 40, Deduct	-92.44	
		For >40, Deduct	-193.97	
26 56 13 00-0183	EA	14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,659.82	324.14
		For Galvanized Finish, Add	30.35	
		For >10 To 20, Deduct	-56.67	
		For >20 To 40, Deduct	-103.22	
		For >40, Deduct	-216.56	
26 56 13 00-0184	EA	16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,839.21	360.16
		For Galvanized Finish, Add	33.57	
		For >10 To 20, Deduct	-62.76	
		For >20 To 40, Deduct	-114.34	
		For >40, Deduct	-239.87	
26 56 13 00-0185	EA	18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,958.96	396.17
		For Galvanized Finish, Add	35.00	
		For >10 To 20, Deduct	-66.47	
		For >20 To 40, Deduct	-121.28	
		For >40, Deduct	-254.23	
26 56 13 00-0186	EA	20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,066.77	432.19
		For Galvanized Finish, Add	36.07	
		For >10 To 20, Deduct	-69.70	
		For >20 To 40, Deduct	-127.39	
		For >40, Deduct	-266.80	
26 56 13 00-0187	EA	10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,427.49	252.12
		For Galvanized Finish, Add	27.70	
		For >10 To 20, Deduct	-49.54	
		For >20 To 40, Deduct	-89.84	
		For >40, Deduct	-188.91	
26 56 13 00-0188	EA	12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,549.62	288.13
		For Galvanized Finish, Add	29.20	
		For >10 To 20, Deduct	-53.34	
		For >20 To 40, Deduct	-96.95	
		For >40, Deduct	-203.63	
26 56 13 00-0189	EA	14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,788.65	324.14
		For Galvanized Finish, Add	34.21	
		For >10 To 20, Deduct	-61.82	
		For >20 To 40, Deduct	-112.24	
		For >40, Deduct	-235.88	
26 56 13 00-0190	EA	16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,922.71	360.16
		For Galvanized Finish, Add	36.07	
		For >10 To 20, Deduct	-66.10	
		For >20 To 40, Deduct	-120.18	
		For >40, Deduct	-252.39	
26 56 13 00-0191	EA	18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,049.61	396.17
		For Galvanized Finish, Add	37.72	
		For >10 To 20, Deduct	-70.10	
		For >20 To 40, Deduct	-127.63	
		For >40, Deduct	-267.82	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0192	EA		20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,152.66	432.19
			For Galvanized Finish, Add	38.65	
			For >10 To 20, Deduct	-73.14	
			For >20 To 40, Deduct	-133.40	
			For >40, Deduct	-279.68	
26 56 13 00-0193	EA		25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,529.06	576.26
			For Galvanized Finish, Add	41.30	
			For >10 To 20, Deduct	-83.87	
			For >20 To 40, Deduct	-153.98	
			For >40, Deduct	-321.73	
26 56 13 00-0194	EA		10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,427.49	252.12
			For Galvanized Finish, Add	27.70	
			For >10 To 20, Deduct	-49.54	
			For >20 To 40, Deduct	-89.84	
			For >40, Deduct	-188.91	
26 56 13 00-0195	EA		12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,556.77	288.13
			For Galvanized Finish, Add	29.42	
			For >10 To 20, Deduct	-53.63	
			For >20 To 40, Deduct	-97.45	
			For >40, Deduct	-204.70	
26 56 13 00-0196	EA		14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,826.82	324.14
			For Galvanized Finish, Add	35.36	
			For >10 To 20, Deduct	-63.35	
			For >20 To 40, Deduct	-114.91	
			For >40, Deduct	-241.61	
26 56 13 00-0197	EA		16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,929.87	360.16
			For Galvanized Finish, Add	36.29	
			For >10 To 20, Deduct	-66.39	
			For >20 To 40, Deduct	-120.68	
			For >40, Deduct	-253.46	
26 56 13 00-0198	EA		18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,049.61	396.17
			For Galvanized Finish, Add	37.72	
			For >10 To 20, Deduct	-70.10	
			For >20 To 40, Deduct	-127.63	
			For >40, Deduct	-267.82	
26 56 13 00-0199	EA		20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,152.66	432.19
			For Galvanized Finish, Add	38.65	
			For >10 To 20, Deduct	-73.14	
			For >20 To 40, Deduct	-133.40	
			For >40, Deduct	-279.68	
26 56 13 00-0200	EA		25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,595.86	576.26
			For Galvanized Finish, Add	43.30	
			For >10 To 20, Deduct	-86.55	
			For >20 To 40, Deduct	-158.66	
			For >40, Deduct	-331.75	
26 56 13 00-0201	EA		30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,863.97	648.29
			For Galvanized Finish, Add	47.02	
			For >10 To 20, Deduct	-95.11	
			For >20 To 40, Deduct	-174.55	
			For >40, Deduct	-364.77	
26 56 13 00-0202	EA		20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,305.34	432.19
			For Galvanized Finish, Add	43.23	
			For >10 To 20, Deduct	-79.25	
			For >20 To 40, Deduct	-144.09	
			For >40, Deduct	-302.58	
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,626.87	576.26
			For Galvanized Finish, Add	44.23	
			For >10 To 20, Deduct	-87.79	
			For >20 To 40, Deduct	-160.83	
			For >40, Deduct	-336.40	
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,923.61	648.29
			For Galvanized Finish, Add	48.81	
			For >10 To 20, Deduct	-97.50	
			For >20 To 40, Deduct	-178.72	
			For >40, Deduct	-373.71	
26 56 13 00-0205			Round Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0206			Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)		
26 56 13 00-0207	EA		20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,844.50	432.19
			For Galvanized Finish, Add	59.40	
			For >10 To 20, Deduct	-100.81	
			For >20 To 40, Deduct	-181.83	
			For >40, Deduct	-383.46	
26 56 13 00-0208	EA		20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	2,918.46	432.19
			For Galvanized Finish, Add	61.62	
			For >10 To 20, Deduct	-103.77	
			For >20 To 40, Deduct	-187.00	
			For >40, Deduct	-394.55	
26 56 13 00-0209	EA		25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,368.82	576.26
			For Galvanized Finish, Add	66.49	
			For >10 To 20, Deduct	-117.47	
			For >20 To 40, Deduct	-212.77	
			For >40, Deduct	-447.70	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0210	EA	25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,521.50	576.26	
		For Galvanized Finish, Add	71.07		
		For >10 To 20, Deduct	-123.57		
		For >20 To 40, Deduct	-223.45		
		For >40, Deduct	-470.60		
26 56 13 00-0211	EA	30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,751.44	648.29	
		For Galvanized Finish, Add	73.65		
		For >10 To 20, Deduct	-130.61		
		For >20 To 40, Deduct	-236.67		
		For >40, Deduct	-497.89		
26 56 13 00-0212	EA	30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,006.71	648.29	
		For Galvanized Finish, Add	81.30		
		For >10 To 20, Deduct	-140.82		
		For >20 To 40, Deduct	-254.54		
		For >40, Deduct	-536.18		
26 56 13 00-0213	EA	35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,131.24	684.31	
		For Galvanized Finish, Add	82.88		
		For >10 To 20, Deduct	-144.72		
		For >20 To 40, Deduct	-261.81		
		For >40, Deduct	-551.26		
26 56 13 00-0214	EA	35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,288.69	684.31	
		For Galvanized Finish, Add	87.60		
		For >10 To 20, Deduct	-151.02		
		For >20 To 40, Deduct	-272.84		
		For >40, Deduct	-574.87		
26 56 13 00-0215	EA	35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,665.63	684.31	
		For Galvanized Finish, Add	98.91		
		For >10 To 20, Deduct	-166.10		
		For >20 To 40, Deduct	-299.22		
		For >40, Deduct	-631.41		
26 56 13 00-0216	EA	39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,709.03	720.33	
		For Galvanized Finish, Add	98.05		
		For >10 To 20, Deduct	-166.75		
		For >20 To 40, Deduct	-300.82		
		For >40, Deduct	-634.32		
26 56 13 00-0217	EA	39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,775.83	720.33	
		For Galvanized Finish, Add	100.06		
		For >10 To 20, Deduct	-169.42		
		For >20 To 40, Deduct	-305.50		
		For >40, Deduct	-644.34		
26 56 13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	6,493.90	936.42	
		For Galvanized Finish, Add	138.63		
		For >10 To 20, Deduct	-231.66		
		For >20 To 40, Deduct	-417.12		
		For >40, Deduct	-880.44		
26 56 13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	6,767.72	1,080.48	
		For Galvanized Finish, Add	138.20		
		For >10 To 20, Deduct	-238.29		
		For >20 To 40, Deduct	-430.52		
		For >40, Deduct	-907.11		
26 56 13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,556.89	576.26	
		For Galvanized Finish, Add	102.13		
		For >10 To 20, Deduct	-164.99		
		For >20 To 40, Deduct	-295.93		
		For >40, Deduct	-625.91		
26 56 13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,173.31	648.29	
		For Galvanized Finish, Add	116.30		
		For >10 To 20, Deduct	-187.48		
		For >20 To 40, Deduct	-336.20		
		For >40, Deduct	-711.17		
26 56 13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	5,994.91	720.33	
		For Galvanized Finish, Add	136.63		
		For >10 To 20, Deduct	-218.19		
		For >20 To 40, Deduct	-390.83		
		For >40, Deduct	-827.20		
26 56 13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	7,238.23	936.42	
		For Galvanized Finish, Add	160.96		
		For >10 To 20, Deduct	-261.44		
		For >20 To 40, Deduct	-469.22		
		For >40, Deduct	-992.09		
26 56 13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	8,447.24	1,080.48	
		For Galvanized Finish, Add	188.59		
		For >10 To 20, Deduct	-305.48		
		For >20 To 40, Deduct	-548.09		
		For >40, Deduct	-1,159.04		
26 56 13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	9,418.21	1,080.48	
		For Galvanized Finish, Add	217.72		
		For >10 To 20, Deduct	-344.31		
		For >20 To 40, Deduct	-616.06		
		For >40, Deduct	-1,304.68		
26 56 13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	12,662.73	1,080.48	
		For Galvanized Finish, Add	315.05		
		For >10 To 20, Deduct	-474.09		
		For >20 To 40, Deduct	-843.17		
		For >40, Deduct	-1,791.36		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0227	EA		50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	14,237.28	1,080.48
			For Galvanized Finish, Add	362.29	
			For >10 To 20, Deduct	-537.08	
			For >20 To 40, Deduct	-953.39	
			For >40, Deduct	-2,027.54	
26 56 13 00-0228 Square Straight, Steel Area Light Poles (26 56 13 00-0178)					
26 56 13 00-0229 Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0228)					
26 56 13 00-0230	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,346.37	252.12
			For Galvanized Finish, Add	25.26	
			For >10 To 20, Deduct	-46.29	
			For >20 To 40, Deduct	-84.16	
			For >40, Deduct	-176.74	
26 56 13 00-0231	EA		12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,418.40	288.13
			For Galvanized Finish, Add	25.26	
			For >10 To 20, Deduct	-48.09	
			For >20 To 40, Deduct	-87.76	
			For >40, Deduct	-183.95	
26 56 13 00-0232	EA		14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,530.99	324.14
			For Galvanized Finish, Add	26.48	
			For >10 To 20, Deduct	-51.52	
			For >20 To 40, Deduct	-94.20	
			For >40, Deduct	-197.23	
26 56 13 00-0233	EA		15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,624.27	342.15
			For Galvanized Finish, Add	28.20	
			For >10 To 20, Deduct	-54.71	
			For >20 To 40, Deduct	-100.01	
			For >40, Deduct	-209.43	
26 56 13 00-0234	EA		16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,660.29	360.16
			For Galvanized Finish, Add	28.20	
			For >10 To 20, Deduct	-55.61	
			For >20 To 40, Deduct	-101.81	
			For >40, Deduct	-213.03	
26 56 13 00-0235	EA		18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,758.56	396.17
			For Galvanized Finish, Add	28.99	
			For >10 To 20, Deduct	-58.46	
			For >20 To 40, Deduct	-107.25	
			For >40, Deduct	-224.17	
26 56 13 00-0236	EA		20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	1,852.06	432.19
			For Galvanized Finish, Add	29.63	
			For >10 To 20, Deduct	-61.12	
			For >20 To 40, Deduct	-112.36	
			For >40, Deduct	-234.59	
26 56 13 00-0237	EA		25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,283.33	576.26
			For Galvanized Finish, Add	33.92	
			For >10 To 20, Deduct	-74.05	
			For >20 To 40, Deduct	-136.78	
			For >40, Deduct	-284.87	
26 56 13 00-0238	EA		20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,174.13	432.19
			For Galvanized Finish, Add	39.29	
			For >10 To 20, Deduct	-74.00	
			For >20 To 40, Deduct	-134.90	
			For >40, Deduct	-282.90	
26 56 13 00-0239	EA		25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,727.07	576.26
			For Galvanized Finish, Add	47.24	
			For >10 To 20, Deduct	-91.80	
			For >20 To 40, Deduct	-167.84	
			For >40, Deduct	-351.43	
26 56 13 00-0240	EA		30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,131.17	648.29
			For Galvanized Finish, Add	55.04	
			For >10 To 20, Deduct	-105.80	
			For >20 To 40, Deduct	-193.25	
			For >40, Deduct	-404.85	
26 56 13 00-0241	EA		20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,085.86	432.19
			For Galvanized Finish, Add	36.64	
			For >10 To 20, Deduct	-70.47	
			For >20 To 40, Deduct	-128.72	
			For >40, Deduct	-269.66	
26 56 13 00-0242	EA		25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,555.30	576.26
			For Galvanized Finish, Add	42.08	
			For >10 To 20, Deduct	-84.92	
			For >20 To 40, Deduct	-155.82	
			For >40, Deduct	-325.67	
26 56 13 00-0243	EA		30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,983.26	648.29
			For Galvanized Finish, Add	50.60	
			For >10 To 20, Deduct	-99.88	
			For >20 To 40, Deduct	-182.90	
			For >40, Deduct	-382.66	
26 56 13 00-0244	EA		20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,388.84	432.19
			For Galvanized Finish, Add	45.73	
			For >10 To 20, Deduct	-82.59	
			For >20 To 40, Deduct	-149.93	
			For >40, Deduct	-315.11	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0245	EA		25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	2,941.78	576.26
			For Galvanized Finish, Add	53.68	
			For >10 To 20, Deduct	-100.38	
			For >20 To 40, Deduct	-182.87	
			For >40, Deduct	-383.64	
26 56 13 00-0246	EA		30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,333.95	648.29
			For Galvanized Finish, Add	61.12	
			For >10 To 20, Deduct	-113.91	
			For >20 To 40, Deduct	-207.44	
			For >40, Deduct	-435.26	
26 56 13 00-0247	EA		35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,701.82	684.31
			For Galvanized Finish, Add	70.00	
			For >10 To 20, Deduct	-127.54	
			For >20 To 40, Deduct	-231.76	
			For >40, Deduct	-486.84	
26 56 13 00-0248	EA		30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	3,803.93	648.29
			For Galvanized Finish, Add	75.22	
			For >10 To 20, Deduct	-132.71	
			For >20 To 40, Deduct	-240.34	
			For >40, Deduct	-505.76	
26 56 13 00-0249	EA		35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,174.18	684.31
			For Galvanized Finish, Add	84.17	
			For >10 To 20, Deduct	-146.44	
			For >20 To 40, Deduct	-264.82	
			For >40, Deduct	-557.70	
26 56 13 00-0250	EA		40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,415.59	720.33
			For Galvanized Finish, Add	89.25	
			For >10 To 20, Deduct	-155.01	
			For >20 To 40, Deduct	-280.28	
			For >40, Deduct	-590.31	
26 56 13 00-0251			Hinged, Square Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0252			Hinged, Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0251)		
26 56 13 00-0253	EA		20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,820.35	432.19
			For Galvanized Finish, Add	118.68	
			For >10 To 20, Deduct	-179.85	
			For >20 To 40, Deduct	-320.14	
			For >40, Deduct	-679.83	
26 56 13 00-0254	EA		25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,377.45	576.26
			For Galvanized Finish, Add	126.75	
			For >10 To 20, Deduct	-197.81	
			For >20 To 40, Deduct	-353.37	
			For >40, Deduct	-748.99	
26 56 13 00-0255	EA		30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,531.21	648.29
			For Galvanized Finish, Add	187.04	
			For >10 To 20, Deduct	-281.80	
			For >20 To 40, Deduct	-501.25	
			For >40, Deduct	-1,064.85	
26 56 13 00-0256	EA		20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,916.77	432.19
			For Galvanized Finish, Add	121.57	
			For >10 To 20, Deduct	-183.70	
			For >20 To 40, Deduct	-326.89	
			For >40, Deduct	-694.30	
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,938.24	576.26
			For Galvanized Finish, Add	143.57	
			For >10 To 20, Deduct	-220.24	
			For >20 To 40, Deduct	-392.63	
			For >40, Deduct	-833.11	
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,366.04	648.29
			For Galvanized Finish, Add	212.08	
			For >10 To 20, Deduct	-315.19	
			For >20 To 40, Deduct	-559.69	
			For >40, Deduct	-1,190.08	
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	9,602.79	684.31
			For Galvanized Finish, Add	247.03	
			For >10 To 20, Deduct	-363.58	
			For >20 To 40, Deduct	-644.82	
			For >40, Deduct	-1,371.99	
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	11,291.21	720.33
			For Galvanized Finish, Add	295.52	
			For >10 To 20, Deduct	-430.04	
			For >20 To 40, Deduct	-761.57	
			For >40, Deduct	-1,621.65	
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,668.10	432.19
			For Galvanized Finish, Add	114.11	
			For >10 To 20, Deduct	-173.76	
			For >20 To 40, Deduct	-309.48	
			For >40, Deduct	-657.00	
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,133.85	576.26
			For Galvanized Finish, Add	119.44	
			For >10 To 20, Deduct	-188.07	
			For >20 To 40, Deduct	-336.32	
			For >40, Deduct	-712.45	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0263 EA 30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	7,102.37	648.29
For Galvanized Finish, Add	174.17	
For >10 To 20, Deduct	-264.65	
For >20 To 40, Deduct	-471.23	
For >40, Deduct	-1,000.53	
26 56 13 00-0264 EA 20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	4,843.18	432.19
For Galvanized Finish, Add	119.36	
For >10 To 20, Deduct	-180.76	
For >20 To 40, Deduct	-321.73	
For >40, Deduct	-683.26	
26 56 13 00-0265 EA 25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,709.86	576.26
For Galvanized Finish, Add	136.72	
For >10 To 20, Deduct	-211.11	
For >20 To 40, Deduct	-376.64	
For >40, Deduct	-798.85	
26 56 13 00-0266 EA 30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	8,048.86	648.29
For Galvanized Finish, Add	202.57	
For >10 To 20, Deduct	-302.51	
For >20 To 40, Deduct	-537.49	
For >40, Deduct	-1,142.50	
26 56 13 00-0267 EA 20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,112.16	432.19
For Galvanized Finish, Add	127.43	
For >10 To 20, Deduct	-191.52	
For >20 To 40, Deduct	-340.56	
For >40, Deduct	-723.60	
26 56 13 00-0268 EA 25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,194.52	576.26
For Galvanized Finish, Add	151.26	
For >10 To 20, Deduct	-230.49	
For >20 To 40, Deduct	-410.57	
For >40, Deduct	-871.55	
26 56 13 00-0269 EA 30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,619.79	648.29
For Galvanized Finish, Add	219.70	
For >10 To 20, Deduct	-325.34	
For >20 To 40, Deduct	-577.45	
For >40, Deduct	-1,228.14	
26 56 13 00-0270 EA 35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	9,912.37	684.31
For Galvanized Finish, Add	256.31	
For >10 To 20, Deduct	-375.97	
For >20 To 40, Deduct	-666.49	
For >40, Deduct	-1,418.42	
26 56 13 00-0271 EA 39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	11,456.15	720.33
For Galvanized Finish, Add	300.47	
For >10 To 20, Deduct	-436.64	
For >20 To 40, Deduct	-773.12	
For >40, Deduct	-1,646.39	
26 56 13 00-0272 Square Tapered, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0273 Square Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0272)		
26 56 13 00-0274 EA 20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	3,648.48	432.19
For Galvanized Finish, Add	83.52	
For >10 To 20, Deduct	-132.97	
For >20 To 40, Deduct	-238.11	
For >40, Deduct	-504.05	
26 56 13 00-0275 EA 25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,428.06	576.26
For Galvanized Finish, Add	98.27	
For >10 To 20, Deduct	-159.83	
For >20 To 40, Deduct	-286.91	
For >40, Deduct	-606.58	
26 56 13 00-0276 EA 30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,927.58	648.29
For Galvanized Finish, Add	108.93	
For >10 To 20, Deduct	-177.65	
For >20 To 40, Deduct	-319.00	
For >40, Deduct	-674.31	
26 56 13 00-0277 EA 35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,469.60	684.31
For Galvanized Finish, Add	123.03	
For >10 To 20, Deduct	-198.25	
For >20 To 40, Deduct	-355.50	
For >40, Deduct	-752.01	
26 56 13 00-0278 EA 39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,765.89	720.33
For Galvanized Finish, Add	129.76	
For >10 To 20, Deduct	-209.03	
For >20 To 40, Deduct	-374.80	
For >40, Deduct	-792.85	
26 56 13 00-0279 EA 20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	4,719.65	432.19
For Galvanized Finish, Add	115.66	
For >10 To 20, Deduct	-175.82	
For >20 To 40, Deduct	-313.09	
For >40, Deduct	-664.73	
26 56 13 00-0280 EA 25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base.....	5,267.82	576.26
For Galvanized Finish, Add	123.46	
For >10 To 20, Deduct	-193.43	
For >20 To 40, Deduct	-345.70	
For >40, Deduct	-732.55	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0281	EA	30'	High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	5,614.66 129.54 -205.14 -367.09 -777.37	648.29
26 56 13 00-0282	EA	30'	High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,244.48 148.44 -230.33 -411.18 -871.84	648.29
26 56 13 00-0283	EA	35'	High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,769.80 162.04 -250.26 -446.51 -947.04	684.31
26 56 13 00-0284	EA	35'	High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	7,549.92 185.44 -281.47 -501.12 -1,064.06	684.31
26 56 13 00-0285	EA	39'	High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	6,877.61 163.11 -253.49 -452.62 -959.61	720.33
26 56 13 00-0286	EA	39'	High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	8,798.09 220.72 -330.31 -587.05 -1,247.68	720.33
26 56 13 00-0287	EA	45'	High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	8,118.55 187.37 -296.65 -530.84 -1,124.14	936.42
26 56 13 00-0288	EA	45'	High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	9,428.29 226.66 -349.04 -622.52 -1,320.60	936.42
26 56 13 00-0289	EA	50'	High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	9,783.22 228.67 -358.91 -641.61 -1,359.43	1,080.48
26 56 13 00-0290	Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)				
26 56 13 00-0291	EA	1/2", 3/4" Or 1"	Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	84.58	
26 56 13 00-0292	EA		Extra Handhole For Steel Area Light Poles	125.79	
26 56 13 00-0293	EA		Vibration Dampener For Steel Area Light Poles	127.96	
26 56 13 00-0294	Aluminum Area Light Poles (26 56 13 00-0177) Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.				
26 56 13 00-0295	Round Straight, Aluminum Area Light Poles (26 56 13 00-0294)				
26 56 13 00-0296	Round Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0295)				
26 56 13 00-0297	EA	8'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	813.61 38.14 76.28 -26.06 -48.31 -100.43	216.10
26 56 13 00-0298	EA	10'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	905.21 40.10 80.20 -28.64 -53.28 -110.57	252.12
26 56 13 00-0299	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,001.69 42.54 85.09 -31.42 -58.59 -121.44	288.13
26 56 13 00-0300	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,099.15 45.09 90.17 -34.24 -63.97 -132.46	324.14

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0301	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,151.80	342.15
		For Bronze Or Satin Anodized Finish, Add	.....	46.75	
		For Black Anodized Finish, Add	.....	93.50	
		For >10 To 20, Deduct	.....	-35.81	
		For >20 To 40, Deduct	.....	-66.94	
		For >40, Deduct	.....	-138.55	
26 56 13 00-0302	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,203.47	360.16
		For Bronze Or Satin Anodized Finish, Add	.....	48.31	
		For Black Anodized Finish, Add	.....	96.63	
		For >10 To 20, Deduct	.....	-37.33	
		For >20 To 40, Deduct	.....	-69.84	
		For >40, Deduct	.....	-144.50	
26 56 13 00-0303	EA	16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,262.15	360.16
		For Bronze Or Satin Anodized Finish, Add	.....	54.18	
		For Black Anodized Finish, Add	.....	108.36	
		For >10 To 20, Deduct	.....	-39.68	
		For >20 To 40, Deduct	.....	-73.94	
		For >40, Deduct	.....	-153.31	
26 56 13 00-0304	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,371.34	396.17
		For Bronze Or Satin Anodized Finish, Add	.....	57.90	
		For Black Anodized Finish, Add	.....	115.80	
		For >10 To 20, Deduct	.....	-42.97	
		For >20 To 40, Deduct	.....	-80.15	
		For >40, Deduct	.....	-166.08	
26 56 13 00-0305	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,474.67	432.19
		For Bronze Or Satin Anodized Finish, Add	.....	61.03	
		For Black Anodized Finish, Add	.....	122.06	
		For >10 To 20, Deduct	.....	-46.02	
		For >20 To 40, Deduct	.....	-85.94	
		For >40, Deduct	.....	-177.98	
26 56 13 00-0306	EA	15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,367.94	342.15
		For Bronze Or Satin Anodized Finish, Add	.....	68.36	
		For Black Anodized Finish, Add	.....	136.73	
		For >10 To 20, Deduct	.....	-44.45	
		For >20 To 40, Deduct	.....	-82.07	
		For >40, Deduct	.....	-170.98	
26 56 13 00-0307	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,690.81	432.19
		For Bronze Or Satin Anodized Finish, Add	.....	82.64	
		For Black Anodized Finish, Add	.....	165.28	
		For >10 To 20, Deduct	.....	-54.67	
		For >20 To 40, Deduct	.....	-101.07	
		For >40, Deduct	.....	-210.40	
26 56 13 00-0308	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,800.35	432.19
		For Bronze Or Satin Anodized Finish, Add	.....	93.60	
		For Black Anodized Finish, Add	.....	187.19	
		For >10 To 20, Deduct	.....	-59.05	
		For >20 To 40, Deduct	.....	-108.74	
		For >40, Deduct	.....	-226.83	
26 56 13 00-0309	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	2,191.17	576.26
		For Bronze Or Satin Anodized Finish, Add	.....	103.87	
		For Black Anodized Finish, Add	.....	207.73	
		For >10 To 20, Deduct	.....	-70.36	
		For >20 To 40, Deduct	.....	-130.33	
		For >40, Deduct	.....	-271.05	
26 56 13 00-0310	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	2,529.85	648.29
		For Bronze Or Satin Anodized Finish, Add	.....	123.33	
		For Black Anodized Finish, Add	.....	246.65	
		For >10 To 20, Deduct	.....	-81.75	
		For >20 To 40, Deduct	.....	-151.16	
		For >40, Deduct	.....	-314.65	
26 56 13 00-0311	EA	20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,542.15	432.19
		For Bronze Or Satin Anodized Finish, Add	.....	67.78	
		For Black Anodized Finish, Add	.....	135.55	
		For >10 To 20, Deduct	.....	-48.72	
		For >20 To 40, Deduct	.....	-90.66	
		For >40, Deduct	.....	-188.10	
26 56 13 00-0312	EA	20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	1,791.54	432.19
		For Bronze Or Satin Anodized Finish, Add	.....	92.72	
		For Black Anodized Finish, Add	.....	185.43	
		For >10 To 20, Deduct	.....	-58.70	
		For >20 To 40, Deduct	.....	-108.12	
		For >40, Deduct	.....	-225.51	
26 56 13 00-0313	EA	25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	2,175.52	576.26
		For Bronze Or Satin Anodized Finish, Add	.....	102.30	
		For Black Anodized Finish, Add	.....	204.60	
		For >10 To 20, Deduct	.....	-69.73	
		For >20 To 40, Deduct	.....	-129.24	
		For >40, Deduct	.....	-268.70	
26 56 13 00-0314	EA	25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base	.....	2,317.33	576.26
		For Bronze Or Satin Anodized Finish, Add	.....	116.48	
		For Black Anodized Finish, Add	.....	232.96	
		For >10 To 20, Deduct	.....	-75.41	
		For >20 To 40, Deduct	.....	-139.16	
		For >40, Deduct	.....	-289.97	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0315	EA		30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,690.24 139.37 278.73 -88.16 -162.39 -338.71	648.29
26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)					
26 56 13 00-0317	EA		8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	913.37 72.18 -30.05 -55.29 -115.40	216.10
26 56 13 00-0318	EA		10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,024.53 78.05 -33.42 -61.63 -128.47	252.12
26 56 13 00-0319	EA		12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,131.77 83.33 -36.63 -67.70 -140.95	288.13
26 56 13 00-0320	EA		14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,220.43 85.82 -39.09 -72.46 -150.65	324.14
26 56 13 00-0321	EA		16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,320.83 90.08 -42.03 -78.05 -162.11	360.16
26 56 13 00-0322	EA		10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,045.07 81.13 -34.24 -63.07 -131.55	252.12
26 56 13 00-0323	EA		12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,150.35 86.11 -37.37 -69.00 -143.74	288.13
26 56 13 00-0324	EA		14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,258.57 91.54 -40.62 -75.13 -156.37	324.14
26 56 13 00-0325	EA		16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,365.82 96.82 -43.83 -81.20 -168.86	360.16
26 56 13 00-0326	EA		18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,477.94 102.84 -47.23 -87.61 -182.07	396.17
26 56 13 00-0327	EA		20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,584.21 107.97 -50.40 -93.61 -194.41	432.19
26 56 13 00-0328	EA		12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,188.49 91.83 -38.90 -71.67 -149.46	288.13
26 56 13 00-0329	EA		14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,303.56 98.29 -42.42 -78.28 -163.12	324.14
26 56 13 00-0330	EA		16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,417.65 104.60 -45.90 -84.83 -176.63	360.16
26 56 13 00-0331	EA		18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,533.69 111.20 -49.46 -91.51 -190.44	396.17

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,472.42 112.81 -48.09 -88.66 -184.85	360.16
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,712.32 127.19 -55.53 -102.57 -213.63	432.19
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,224.68 97.26 -40.34 -74.20 -154.89	288.13
26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,350.50 105.33 -44.30 -81.57 -170.16	324.14
26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,466.55 111.93 -47.86 -88.25 -183.97	360.16
26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,588.46 119.42 -51.65 -95.35 -198.65	396.17
26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,707.43 126.46 -55.33 -102.23 -212.90	432.19
26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,537.95 122.64 -50.71 -93.25 -194.68	360.16
26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,668.66 131.45 -54.86 -100.96 -210.68	396.17
26 56 13 00-0341 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base For Bronze, Satin Or Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,737.75 131.00 -56.54 -104.35 -217.44	432.19
26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0295) Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0343 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	720.07 35.99 71.98 -23.40 -43.20 -90.00	180.08
26 56 13 00-0344 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	774.66 37.85 75.70 -25.04 -46.30 -96.39	198.09
26 56 13 00-0345 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	854.69 42.25 84.50 -27.70 -51.18 -106.59	216.10
26 56 13 00-0346 EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	877.18 44.50 89.00 -28.60 -52.76 -109.97	216.10
26 56 13 00-0347 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	905.55 47.34 94.67 -29.74 -54.74 -114.22	216.10



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0348	EA 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,027.63		234.10
	For Bronze Or Satin Anodized Finish, Add	55.94		
	For Black Anodized Finish, Add	111.88		
	For >10 To 20, Deduct	-34.08		
	For >20 To 40, Deduct	-62.57		
	For >40, Deduct	-130.73		
26 56 13 00-0349	EA 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,099.84		252.12
	For Bronze Or Satin Anodized Finish, Add	59.56		
	For Black Anodized Finish, Add	119.12		
	For >10 To 20, Deduct	-36.43		
	For >20 To 40, Deduct	-66.90		
	For >40, Deduct	-139.76		
26 56 13 00-0350	EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,251.43		252.12
	For Bronze Or Satin Anodized Finish, Add	74.72		
	For Black Anodized Finish, Add	149.44		
	For >10 To 20, Deduct	-42.49		
	For >20 To 40, Deduct	-77.52		
	For >40, Deduct	-162.50		
26 56 13 00-0351	EA 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,518.08		288.13
	For Bronze Or Satin Anodized Finish, Add	94.18		
	For Black Anodized Finish, Add	188.36		
	For >10 To 20, Deduct	-52.08		
	For >20 To 40, Deduct	-94.74		
	For >40, Deduct	-198.90		
26 56 13 00-0352	EA 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,721.17		324.14
	For Bronze Or Satin Anodized Finish, Add	107.29		
	For Black Anodized Finish, Add	214.58		
	For >10 To 20, Deduct	-59.12		
	For >20 To 40, Deduct	-107.52		
	For >40, Deduct	-225.76		
26 56 13 00-0353	EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	1,900.14		324.14
	For Bronze Or Satin Anodized Finish, Add	125.19		
	For Black Anodized Finish, Add	250.37		
	For >10 To 20, Deduct	-66.28		
	For >20 To 40, Deduct	-120.04		
	For >40, Deduct	-252.61		
26 56 13 00-0354	Round Tapered, Aluminum Area Light Poles (26 56 13 00-0294)			
26 56 13 00-0355	Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0354)			
26 56 13 00-0356	EA 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	708.97		216.10
	For Bronze Or Satin Anodized Finish, Add	27.68		
	For Black Anodized Finish, Add	55.36		
	For >10 To 20, Deduct	-21.88		
	For >20 To 40, Deduct	-40.98		
	For >40, Deduct	-84.74		
26 56 13 00-0357	EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	803.50		252.12
	For Bronze Or Satin Anodized Finish, Add	29.93		
	For Black Anodized Finish, Add	59.85		
	For >10 To 20, Deduct	-24.58		
	For >20 To 40, Deduct	-46.16		
	For >40, Deduct	-95.31		
26 56 13 00-0358	EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	898.03		288.13
	For Bronze Or Satin Anodized Finish, Add	32.18		
	For Black Anodized Finish, Add	64.35		
	For >10 To 20, Deduct	-27.28		
	For >20 To 40, Deduct	-51.34		
	For >40, Deduct	-105.89		
26 56 13 00-0359	EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,001.35		324.14
	For Bronze Or Satin Anodized Finish, Add	35.31		
	For Black Anodized Finish, Add	70.61		
	For >10 To 20, Deduct	-30.33		
	For >20 To 40, Deduct	-57.13		
	For >40, Deduct	-117.79		
26 56 13 00-0360	EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,103.71		360.16
	For Bronze Or Satin Anodized Finish, Add	38.34		
	For Black Anodized Finish, Add	76.68		
	For >10 To 20, Deduct	-33.34		
	For >20 To 40, Deduct	-62.85		
	For >40, Deduct	-129.54		
26 56 13 00-0361	EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	828.93		252.12
	For Bronze Or Satin Anodized Finish, Add	32.47		
	For Black Anodized Finish, Add	64.94		
	For >10 To 20, Deduct	-25.59		
	For >20 To 40, Deduct	-47.94		
	For >40, Deduct	-99.13		
26 56 13 00-0362	EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	938.12		288.13
	For Bronze Or Satin Anodized Finish, Add	36.19		
	For Black Anodized Finish, Add	72.37		
	For >10 To 20, Deduct	-28.88		
	For >20 To 40, Deduct	-54.14		
	For >40, Deduct	-111.91		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0363	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,044.38	324.14
			For Bronze Or Satin Anodized Finish, Add	39.61	
			For Black Anodized Finish, Add	79.22	
			For >10 To 20, Deduct	-32.05	
			For >20 To 40, Deduct	-60.14	
			For >40, Deduct	-124.24	
26 56 13 00-0364	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,250.07	396.17
			For Bronze Or Satin Anodized Finish, Add	45.77	
			For Black Anodized Finish, Add	91.54	
			For >10 To 20, Deduct	-38.12	
			For >20 To 40, Deduct	-71.66	
			For >40, Deduct	-147.89	
26 56 13 00-0365	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,346.55	432.19
			For Bronze Or Satin Anodized Finish, Add	48.22	
			For Black Anodized Finish, Add	96.43	
			For >10 To 20, Deduct	-40.90	
			For >20 To 40, Deduct	-76.97	
			For >40, Deduct	-158.76	
26 56 13 00-0366	EA		12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	974.31	288.13
			For Bronze Or Satin Anodized Finish, Add	39.81	
			For Black Anodized Finish, Add	79.61	
			For >10 To 20, Deduct	-30.33	
			For >20 To 40, Deduct	-56.68	
			For >40, Deduct	-117.33	
26 56 13 00-0367	EA		14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,086.44	324.14
			For Bronze Or Satin Anodized Finish, Add	43.82	
			For Black Anodized Finish, Add	87.63	
			For >10 To 20, Deduct	-33.73	
			For >20 To 40, Deduct	-63.09	
			For >40, Deduct	-130.55	
26 56 13 00-0368	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,205.42	360.16
			For Bronze Or Satin Anodized Finish, Add	48.51	
			For Black Anodized Finish, Add	97.02	
			For >10 To 20, Deduct	-37.41	
			For >20 To 40, Deduct	-69.97	
			For >40, Deduct	-144.80	
26 56 13 00-0369	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,306.79	396.17
			For Bronze Or Satin Anodized Finish, Add	51.44	
			For Black Anodized Finish, Add	102.89	
			For >10 To 20, Deduct	-40.39	
			For >20 To 40, Deduct	-75.63	
			For >40, Deduct	-156.40	
26 56 13 00-0370	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,421.86	432.19
			For Bronze Or Satin Anodized Finish, Add	55.75	
			For Black Anodized Finish, Add	111.49	
			For >10 To 20, Deduct	-43.91	
			For >20 To 40, Deduct	-82.24	
			For >40, Deduct	-170.06	
26 56 13 00-0371	EA		16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,301.27	360.16
			For Bronze Or Satin Anodized Finish, Add	58.09	
			For Black Anodized Finish, Add	116.19	
			For >10 To 20, Deduct	-41.25	
			For >20 To 40, Deduct	-76.68	
			For >40, Deduct	-159.17	
26 56 13 00-0372	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,429.04	396.17
			For Bronze Or Satin Anodized Finish, Add	63.67	
			For Black Anodized Finish, Add	127.34	
			For >10 To 20, Deduct	-45.28	
			For >20 To 40, Deduct	-84.19	
			For >40, Deduct	-174.74	
26 56 13 00-0373	EA		20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,516.72	432.19
			For Bronze Or Satin Anodized Finish, Add	65.23	
			For Black Anodized Finish, Add	130.47	
			For >10 To 20, Deduct	-47.70	
			For >20 To 40, Deduct	-88.88	
			For >40, Deduct	-184.29	
26 56 13 00-0374	EA		23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,747.83	504.23
			For Bronze Or Satin Anodized Finish, Add	73.94	
			For Black Anodized Finish, Add	147.88	
			For >10 To 20, Deduct	-54.79	
			For >20 To 40, Deduct	-102.18	
			For >40, Deduct	-211.75	
26 56 13 00-0375	EA		25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,984.81	576.26
			For Bronze Or Satin Anodized Finish, Add	83.23	
			For Black Anodized Finish, Add	166.46	
			For >10 To 20, Deduct	-62.10	
			For >20 To 40, Deduct	-115.89	
			For >40, Deduct	-240.10	
26 56 13 00-0376	EA		18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,524.89	396.17
			For Bronze Or Satin Anodized Finish, Add	73.25	
			For Black Anodized Finish, Add	146.51	
			For >10 To 20, Deduct	-49.11	
			For >20 To 40, Deduct	-90.90	
			For >40, Deduct	-189.12	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,633.11 76.87 153.74 -52.36 -97.03 -201.75	432.19
26 56	13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,839.76 83.13 166.26 -58.46 -108.61 -225.54	504.23
26 56	13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,055.22 90.27 180.54 -64.92 -120.82 -250.66	576.26
26 56	13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,206.47 98.19 196.38 -69.89 -129.96 -269.74	612.28
26 56	13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,359.68 106.31 212.62 -74.94 -139.25 -289.12	648.29
26 56	13 00-0382	EA	23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,930.71 92.23 184.45 -62.10 -114.98 -239.18	504.23
26 56	13 00-0383	EA	25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,115.86 96.33 192.67 -67.35 -125.06 -259.75	576.26
26 56	13 00-0384	EA	28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,272.00 104.75 209.49 -72.51 -134.55 -279.57	612.28
26 56	13 00-0385	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,461.39 116.48 232.96 -79.01 -146.37 -304.38	648.29
26 56	13 00-0386	EA	33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,541.42 120.88 241.76 -81.67 -151.25 -314.58	666.30
26 56	13 00-0387	EA	35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,695.78 132.72 265.43 -87.30 -161.33 -335.94	684.31
26 56	13 00-0388	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,014.41 43.82 87.63 -31.93 -59.48 -123.35	288.13
26 56	13 00-0389	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,133.38 48.51 97.02 -35.61 -66.37 -137.59	324.14
26 56	13 00-0390	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,256.28 53.60 107.19 -39.45 -73.53 -152.43	360.16

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0391	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,368.41	396.17
			For Bronze Or Satin Anodized Finish, Add	57.61	
			For Black Anodized Finish, Add	115.21	
			For >10 To 20, Deduct	-42.85	
			For >20 To 40, Deduct	-79.94	
			For >40, Deduct	-165.64	
26 56 13 00-0392	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,479.56	432.19
			For Bronze Or Satin Anodized Finish, Add	61.52	
			For Black Anodized Finish, Add	123.03	
			For >10 To 20, Deduct	-46.22	
			For >20 To 40, Deduct	-86.28	
			For >40, Deduct	-178.71	
26 56 13 00-0393	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,362.88	360.16
			For Bronze Or Satin Anodized Finish, Add	64.26	
			For Black Anodized Finish, Add	128.51	
			For >10 To 20, Deduct	-43.71	
			For >20 To 40, Deduct	-81.00	
			For >40, Deduct	-168.42	
26 56 13 00-0394	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,493.59	396.17
			For Bronze Or Satin Anodized Finish, Add	70.12	
			For Black Anodized Finish, Add	140.25	
			For >10 To 20, Deduct	-47.86	
			For >20 To 40, Deduct	-88.70	
			For >40, Deduct	-184.42	
26 56 13 00-0395	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,593.99	432.19
			For Bronze Or Satin Anodized Finish, Add	72.96	
			For Black Anodized Finish, Add	145.92	
			For >10 To 20, Deduct	-50.79	
			For >20 To 40, Deduct	-94.29	
			For >40, Deduct	-195.88	
26 56 13 00-0396	EA		23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,820.20	504.23
			For Bronze Or Satin Anodized Finish, Add	81.18	
			For Black Anodized Finish, Add	162.35	
			For >10 To 20, Deduct	-57.68	
			For >20 To 40, Deduct	-107.25	
			For >40, Deduct	-222.61	
26 56 13 00-0397	EA		25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,052.29	576.26
			For Bronze Or Satin Anodized Finish, Add	89.98	
			For Black Anodized Finish, Add	179.95	
			For >10 To 20, Deduct	-64.80	
			For >20 To 40, Deduct	-120.61	
			For >40, Deduct	-250.22	
26 56 13 00-0398	EA		23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,041.23	504.23
			For Bronze Or Satin Anodized Finish, Add	103.28	
			For Black Anodized Finish, Add	206.56	
			For >10 To 20, Deduct	-66.52	
			For >20 To 40, Deduct	-122.72	
			For >40, Deduct	-255.76	
26 56 13 00-0399	EA		25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,262.56	576.26
			For Bronze Or Satin Anodized Finish, Add	111.00	
			For Black Anodized Finish, Add	222.01	
			For >10 To 20, Deduct	-73.21	
			For >20 To 40, Deduct	-135.33	
			For >40, Deduct	-281.76	
26 56 13 00-0400	EA		28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,430.44	612.28
			For Bronze Or Satin Anodized Finish, Add	120.59	
			For Black Anodized Finish, Add	241.18	
			For >10 To 20, Deduct	-78.85	
			For >20 To 40, Deduct	-145.64	
			For >40, Deduct	-303.34	
26 56 13 00-0401	EA		30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,581.69	648.29
			For Bronze Or Satin Anodized Finish, Add	128.51	
			For Black Anodized Finish, Add	257.02	
			For >10 To 20, Deduct	-83.82	
			For >20 To 40, Deduct	-154.79	
			For >40, Deduct	-322.42	
26 56 13 00-0402	EA		33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,712.57	666.30
			For Bronze Or Satin Anodized Finish, Add	138.00	
			For Black Anodized Finish, Add	275.99	
			For >10 To 20, Deduct	-88.51	
			For >20 To 40, Deduct	-163.23	
			For >40, Deduct	-340.26	
26 56 13 00-0403	EA		35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,827.81	684.31
			For Bronze Or Satin Anodized Finish, Add	145.92	
			For Black Anodized Finish, Add	291.84	
			For >10 To 20, Deduct	-92.58	
			For >20 To 40, Deduct	-170.57	
			For >40, Deduct	-355.74	
26 56 13 00-0404	EA		37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,927.39	702.31
			For Bronze Or Satin Anodized Finish, Add	152.28	
			For Black Anodized Finish, Add	304.55	
			For >10 To 20, Deduct	-96.03	
			For >20 To 40, Deduct	-176.82	
			For >40, Deduct	-368.88	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0405	EA 39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,100.33		720.33
	For Bronze Or Satin Anodized Finish, Add	165.97		
	For Black Anodized Finish, Add	331.94		
	For >10 To 20, Deduct	-102.40		
	For >20 To 40, Deduct	-188.21		
	For >40, Deduct	-393.02		
26 56 13 00-0406	EA 28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,852.94		612.28
	For Bronze Or Satin Anodized Finish, Add	162.84		
	For Black Anodized Finish, Add	325.68		
	For >10 To 20, Deduct	-95.75		
	For >20 To 40, Deduct	-175.21		
	For >40, Deduct	-366.71		
26 56 13 00-0407	EA 30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,070.69		648.29
	For Bronze Or Satin Anodized Finish, Add	177.41		
	For Black Anodized Finish, Add	354.82		
	For >10 To 20, Deduct	-103.38		
	For >20 To 40, Deduct	-189.02		
	For >40, Deduct	-395.77		
26 56 13 00-0408	EA 33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,221.14		666.30
	For Bronze Or Satin Anodized Finish, Add	188.85		
	For Black Anodized Finish, Add	377.71		
	For >10 To 20, Deduct	-108.86		
	For >20 To 40, Deduct	-198.83		
	For >40, Deduct	-416.54		
26 56 13 00-0409	EA 35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,337.35		684.31
	For Bronze Or Satin Anodized Finish, Add	196.87		
	For Black Anodized Finish, Add	393.75		
	For >10 To 20, Deduct	-112.96		
	For >20 To 40, Deduct	-206.24		
	For >40, Deduct	-432.17		
26 56 13 00-0410	EA 37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,405.64		702.31
	For Bronze Or Satin Anodized Finish, Add	200.10		
	For Black Anodized Finish, Add	400.20		
	For >10 To 20, Deduct	-115.16		
	For >20 To 40, Deduct	-210.30		
	For >40, Deduct	-440.61		
26 56 13 00-0411	EA 39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,595.21		720.33
	For Bronze Or Satin Anodized Finish, Add	215.46		
	For Black Anodized Finish, Add	430.91		
	For >10 To 20, Deduct	-122.20		
	For >20 To 40, Deduct	-222.85		
	For >40, Deduct	-467.25		
26 56 13 00-0412	EA 28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,718.95		612.28
	For Bronze Or Satin Anodized Finish, Add	149.44		
	For Black Anodized Finish, Add	298.88		
	For >10 To 20, Deduct	-90.39		
	For >20 To 40, Deduct	-165.84		
	For >40, Deduct	-346.62		
26 56 13 00-0413	EA 30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,919.10		648.29
	For Bronze Or Satin Anodized Finish, Add	162.25		
	For Black Anodized Finish, Add	324.50		
	For >10 To 20, Deduct	-97.32		
	For >20 To 40, Deduct	-178.41		
	For >40, Deduct	-373.04		
26 56 13 00-0414	EA 33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,999.13		666.30
	For Bronze Or Satin Anodized Finish, Add	166.65		
	For Black Anodized Finish, Add	333.31		
	For >10 To 20, Deduct	-99.98		
	For >20 To 40, Deduct	-183.29		
	For >40, Deduct	-383.24		
26 56 13 00-0415	EA 35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,191.63		684.31
	For Bronze Or Satin Anodized Finish, Add	182.30		
	For Black Anodized Finish, Add	364.60		
	For >10 To 20, Deduct	-107.14		
	For >20 To 40, Deduct	-196.04		
	For >40, Deduct	-410.31		
26 56 13 00-0416	EA 37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,290.23		702.31
	For Bronze Or Satin Anodized Finish, Add	188.56		
	For Black Anodized Finish, Add	377.12		
	For >10 To 20, Deduct	-110.54		
	For >20 To 40, Deduct	-202.22		
	For >40, Deduct	-423.30		
26 56 13 00-0417	EA 39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,480.78		720.33
	For Bronze Or Satin Anodized Finish, Add	204.01		
	For Black Anodized Finish, Add	408.03		
	For >10 To 20, Deduct	-117.62		
	For >20 To 40, Deduct	-214.84		
	For >40, Deduct	-450.08		
26 56 13 00-0418	EA 28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,331.18		612.28
	For Bronze Or Satin Anodized Finish, Add	210.66		
	For Black Anodized Finish, Add	421.33		
	For >10 To 20, Deduct	-114.88		
	For >20 To 40, Deduct	-208.69		
	For >40, Deduct	-438.45		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0419	EA		30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,522.53	648.29
			For Bronze Or Satin Anodized Finish, Add	222.60	
			For Black Anodized Finish, Add	445.19	
			For >10 To 20, Deduct	-121.45	
			For >20 To 40, Deduct	-220.65	
			For >40, Deduct	-463.55	
26 56 13 00-0420	EA		33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,674.93	666.30
			For Bronze Or Satin Anodized Finish, Add	234.23	
			For Black Anodized Finish, Add	468.47	
			For >10 To 20, Deduct	-127.01	
			For >20 To 40, Deduct	-230.59	
			For >40, Deduct	-484.61	
26 56 13 00-0421	EA		35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,906.56	684.31
			For Bronze Or Satin Anodized Finish, Add	253.79	
			For Black Anodized Finish, Add	507.59	
			For >10 To 20, Deduct	-135.73	
			For >20 To 40, Deduct	-246.09	
			For >40, Deduct	-517.55	
26 56 13 00-0422	EA		37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,964.08	702.31
			For Bronze Or Satin Anodized Finish, Add	255.95	
			For Black Anodized Finish, Add	511.89	
			For >10 To 20, Deduct	-137.49	
			For >20 To 40, Deduct	-249.39	
			For >40, Deduct	-524.38	
26 56 13 00-0423	EA		39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	4,194.73	720.33
			For Bronze Or Satin Anodized Finish, Add	275.41	
			For Black Anodized Finish, Add	550.82	
			For >10 To 20, Deduct	-146.18	
			For >20 To 40, Deduct	-264.82	
			For >40, Deduct	-557.18	
26 56 13 00-0424	EA		48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,367.86	1,080.48
			For Bronze Or Satin Anodized Finish, Add	320.69	
			For Black Anodized Finish, Add	641.38	
			For >10 To 20, Deduct	-182.30	
			For >20 To 40, Deduct	-332.53	
			For >40, Deduct	-697.13	
26 56 13 00-0425	EA		50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,489.14	1,080.48
			For Bronze Or Satin Anodized Finish, Add	332.82	
			For Black Anodized Finish, Add	665.63	
			For >10 To 20, Deduct	-187.15	
			For >20 To 40, Deduct	-341.02	
			For >40, Deduct	-715.32	
26 56 13 00-0426 Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)					
26 56 13 00-0427	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	919.24	216.10
			For Bronze, Satin Or Black Anodized Finish, Add	73.06	
			For >10 To 20, Deduct	-30.29	
			For >20 To 40, Deduct	-55.70	
			For >40, Deduct	-116.28	
26 56 13 00-0428	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,011.82	252.12
			For Bronze, Satin Or Black Anodized Finish, Add	76.14	
			For >10 To 20, Deduct	-32.91	
			For >20 To 40, Deduct	-60.74	
			For >40, Deduct	-126.56	
26 56 13 00-0429	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,105.36	288.13
			For Bronze, Satin Or Black Anodized Finish, Add	79.37	
			For >10 To 20, Deduct	-35.57	
			For >20 To 40, Deduct	-65.85	
			For >40, Deduct	-136.99	
26 56 13 00-0430	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,200.87	324.14
			For Bronze, Satin Or Black Anodized Finish, Add	82.89	
			For >10 To 20, Deduct	-38.31	
			For >20 To 40, Deduct	-71.10	
			For >40, Deduct	-147.72	
26 56 13 00-0431	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,295.40	360.16
			For Bronze, Satin Or Black Anodized Finish, Add	86.26	
			For >10 To 20, Deduct	-41.01	
			For >20 To 40, Deduct	-76.27	
			For >40, Deduct	-158.29	
26 56 13 00-0432	EA		10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,023.55	252.12
			For Bronze, Satin Or Black Anodized Finish, Add	77.90	
			For >10 To 20, Deduct	-33.38	
			For >20 To 40, Deduct	-61.56	
			For >40, Deduct	-128.32	
26 56 13 00-0433	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,119.06	288.13
			For Bronze, Satin Or Black Anodized Finish, Add	81.42	
			For >10 To 20, Deduct	-36.12	
			For >20 To 40, Deduct	-66.81	
			For >40, Deduct	-139.05	
26 56 13 00-0434	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,216.51	324.14
			For Bronze, Satin Or Black Anodized Finish, Add	85.23	
			For >10 To 20, Deduct	-38.94	
			For >20 To 40, Deduct	-72.19	
			For >40, Deduct	-150.06	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0435	EA	16'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,313.00 88.90 -41.72 -77.50 -160.93	360.16
26 56 13 00-0436	EA	18'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,422.20 94.48 -45.00 -83.71 -173.71	396.17
26 56 13 00-0437	EA	20'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,522.59 98.73 -47.94 -89.29 -185.17	432.19
26 56 13 00-0438	EA	12'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,157.20 87.14 -37.64 -69.48 -144.77	288.13
26 56 13 00-0439	EA	14'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,259.55 91.69 -40.66 -75.20 -156.52	324.14
26 56 13 00-0440	EA	16'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,373.64 98.00 -44.14 -81.75 -170.03	360.16
26 56 13 00-0441	EA	18'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,477.94 102.84 -47.23 -87.61 -182.07	396.17
26 56 13 00-0442	EA	20'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,594.96 109.59 -50.83 -94.36 -196.02	432.19
26 56 13 00-0443	EA	16'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,429.39 106.36 -46.37 -85.65 -178.39	360.16
26 56 13 00-0444	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,553.25 114.13 -50.24 -92.88 -193.37	396.17
26 56 13 00-0445	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,655.60 118.68 -53.26 -98.60 -205.12	432.19
26 56 13 00-0446	EA	12'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,187.52 91.69 -38.86 -71.60 -149.32	288.13
26 56 13 00-0447	EA	14'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,305.51 98.58 -42.50 -78.42 -163.41	324.14
26 56 13 00-0448	EA	16'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,429.39 106.36 -46.37 -85.65 -178.39	360.16
26 56 13 00-0449	EA	18'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,541.52 112.37 -49.78 -92.06 -191.61	396.17
26 56 13 00-0450	EA	20'	High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,660.49 119.42 -53.45 -98.95 -205.85	432.19
26 56 13 00-0451	EA	16'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,492.96 115.89 -48.91 -90.10 -187.93	360.16

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,624.65	396.17
			For Bronze, Satin Or Black Anodized Finish, Add	124.84	
			For >10 To 20, Deduct	-53.10	
			For >20 To 40, Deduct	-97.88	
			For >40, Deduct	-204.08	
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,731.88	432.19
			For Bronze, Satin Or Black Anodized Finish, Add	130.12	
			For >10 To 20, Deduct	-56.31	
			For >20 To 40, Deduct	-103.94	
			For >40, Deduct	-216.56	
26 56 13 00-0454 Round Tapered, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0354)					
Note: Includes rubberized undercoating on embedded portion.					
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	649.65	180.08
			For Bronze Or Satin Anodized Finish, Add	28.95	
			For Black Anodized Finish, Add	57.90	
			For >10 To 20, Deduct	-20.58	
			For >20 To 40, Deduct	-38.27	
			For >40, Deduct	-79.44	
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	677.04	180.08
			For Bronze Or Satin Anodized Finish, Add	31.69	
			For Black Anodized Finish, Add	63.38	
			For >10 To 20, Deduct	-21.68	
			For >20 To 40, Deduct	-40.19	
			For >40, Deduct	-83.55	
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	735.54	198.09
			For Bronze Or Satin Anodized Finish, Add	33.94	
			For Black Anodized Finish, Add	67.87	
			For >10 To 20, Deduct	-23.48	
			For >20 To 40, Deduct	-43.56	
			For >40, Deduct	-90.52	
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	787.21	216.10
			For Bronze Or Satin Anodized Finish, Add	35.50	
			For Black Anodized Finish, Add	71.00	
			For >10 To 20, Deduct	-25.01	
			For >20 To 40, Deduct	-46.46	
			For >40, Deduct	-96.47	
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	822.42	216.10
			For Bronze Or Satin Anodized Finish, Add	39.02	
			For Black Anodized Finish, Add	78.05	
			For >10 To 20, Deduct	-26.41	
			For >20 To 40, Deduct	-48.93	
			For >40, Deduct	-101.75	
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	761.95	198.09
			For Bronze Or Satin Anodized Finish, Add	36.58	
			For Black Anodized Finish, Add	73.16	
			For >10 To 20, Deduct	-24.54	
			For >20 To 40, Deduct	-45.41	
			For >40, Deduct	-94.48	
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	825.35	216.10
			For Bronze Or Satin Anodized Finish, Add	39.32	
			For Black Anodized Finish, Add	78.63	
			For >10 To 20, Deduct	-26.53	
			For >20 To 40, Deduct	-49.13	
			For >40, Deduct	-102.19	
26 56 13 00-0462	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	844.91	216.10
			For Bronze Or Satin Anodized Finish, Add	41.27	
			For Black Anodized Finish, Add	82.54	
			For >10 To 20, Deduct	-27.31	
			For >20 To 40, Deduct	-50.50	
			For >40, Deduct	-105.13	
26 56 13 00-0463	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	912.23	234.10
			For Bronze Or Satin Anodized Finish, Add	44.40	
			For Black Anodized Finish, Add	88.80	
			For >10 To 20, Deduct	-29.47	
			For >20 To 40, Deduct	-54.49	
			For >40, Deduct	-113.42	
26 56 13 00-0464	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	975.63	252.12
			For Bronze Or Satin Anodized Finish, Add	47.14	
			For Black Anodized Finish, Add	94.28	
			For >10 To 20, Deduct	-31.46	
			For >20 To 40, Deduct	-58.21	
			For >40, Deduct	-121.13	
26 56 13 00-0465	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	901.63	216.10
			For Bronze Or Satin Anodized Finish, Add	46.94	
			For Black Anodized Finish, Add	93.89	
			For >10 To 20, Deduct	-29.58	
			For >20 To 40, Deduct	-54.47	
			For >40, Deduct	-113.64	
26 56 13 00-0466	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	974.82	234.10
			For Bronze Or Satin Anodized Finish, Add	50.66	
			For Black Anodized Finish, Add	101.32	
			For >10 To 20, Deduct	-31.97	
			For >20 To 40, Deduct	-58.87	
			For >40, Deduct	-122.81	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0467	EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,043.11		252.12
	For Bronze Or Satin Anodized Finish, Add	53.89		
	For Black Anodized Finish, Add	107.78		
	For >10 To 20, Deduct	-34.16		
	For >20 To 40, Deduct	-62.93		
	For >40, Deduct	-131.26		
26 56 13 00-0468	EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,055.02		234.10
	For Bronze Or Satin Anodized Finish, Add	58.68		
	For Black Anodized Finish, Add	117.36		
	For >10 To 20, Deduct	-35.18		
	For >20 To 40, Deduct	-64.49		
	For >40, Deduct	-134.84		
26 56 13 00-0469	EA 25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,345.95		288.13
	For Bronze Or Satin Anodized Finish, Add	76.97		
	For Black Anodized Finish, Add	153.94		
	For >10 To 20, Deduct	-45.19		
	For >20 To 40, Deduct	-82.69		
	For >40, Deduct	-173.08		
26 56 13 00-0470	EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,456.47		288.13
	For Bronze Or Satin Anodized Finish, Add	88.02		
	For Black Anodized Finish, Add	176.04		
	For >10 To 20, Deduct	-49.61		
	For >20 To 40, Deduct	-90.43		
	For >40, Deduct	-189.66		
26 56 13 00-0471	EA 30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,623.37		324.14
	For Bronze Or Satin Anodized Finish, Add	97.51		
	For Black Anodized Finish, Add	195.02		
	For >10 To 20, Deduct	-55.21		
	For >20 To 40, Deduct	-100.67		
	For >40, Deduct	-211.09		
26 56 13 00-0472	EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,743.66		324.14
	For Bronze Or Satin Anodized Finish, Add	109.54		
	For Black Anodized Finish, Add	219.07		
	For >10 To 20, Deduct	-60.02		
	For >20 To 40, Deduct	-109.09		
	For >40, Deduct	-229.13		
26 56 13 00-0473	Square Straight, Aluminum Area Light Poles (26 56 13 00-0294)			
26 56 13 00-0474	Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0473)			
26 56 13 00-0475	EA 8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	836.11		216.10
	For Bronze Or Satin Anodized Finish, Add	40.39		
	For Black Anodized Finish, Add	80.78		
	For >10 To 20, Deduct	-26.96		
	For >20 To 40, Deduct	-49.88		
	For >40, Deduct	-103.81		
26 56 13 00-0476	EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	928.69		252.12
	For Bronze Or Satin Anodized Finish, Add	42.45		
	For Black Anodized Finish, Add	84.89		
	For >10 To 20, Deduct	-29.58		
	For >20 To 40, Deduct	-54.92		
	For >40, Deduct	-114.09		
26 56 13 00-0477	EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,029.08		288.13
	For Bronze Or Satin Anodized Finish, Add	45.28		
	For Black Anodized Finish, Add	90.56		
	For >10 To 20, Deduct	-32.52		
	For >20 To 40, Deduct	-60.51		
	For >40, Deduct	-125.55		
26 56 13 00-0478	EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,128.49		324.14
	For Bronze Or Satin Anodized Finish, Add	48.02		
	For Black Anodized Finish, Add	96.04		
	For >10 To 20, Deduct	-35.42		
	For >20 To 40, Deduct	-66.03		
	For >40, Deduct	-136.86		
26 56 13 00-0479	EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,182.12		342.15
	For Bronze Or Satin Anodized Finish, Add	49.78		
	For Black Anodized Finish, Add	99.56		
	For >10 To 20, Deduct	-37.02		
	For >20 To 40, Deduct	-69.06		
	For >40, Deduct	-143.10		
26 56 13 00-0480	EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,235.74		360.16
	For Bronze Or Satin Anodized Finish, Add	51.54		
	For Black Anodized Finish, Add	103.08		
	For >10 To 20, Deduct	-38.62		
	For >20 To 40, Deduct	-72.10		
	For >40, Deduct	-149.34		
26 56 13 00-0481	EA 18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,341.02		396.17
	For Bronze Or Satin Anodized Finish, Add	54.87		
	For Black Anodized Finish, Add	109.73		
	For >10 To 20, Deduct	-41.76		
	For >20 To 40, Deduct	-78.02		
	For >40, Deduct	-161.54		

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0482	EA	20'	High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,455.11 59.07 118.14 -45.24 -84.57 -175.05	432.19
26 56 13 00-0483	EA	16'	High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,303.22 58.29 116.58 -41.32 -76.82 -159.47	360.16
26 56 13 00-0484	EA	18'	High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,410.46 61.81 123.62 -44.53 -82.89 -171.95	396.17
26 56 13 00-0485	EA	20'	High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,530.41 66.60 133.20 -48.25 -89.84 -186.34	432.19
26 56 13 00-0486	EA	15'	High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,475.52 79.12 158.24 -48.76 -89.60 -187.11	342.15
26 56 13 00-0487	EA	20'	High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,811.10 94.67 189.34 -59.48 -109.49 -228.45	432.19
26 56 13 00-0488	EA	25'	High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,221.48 106.90 213.79 -71.57 -132.45 -275.60	576.26
26 56 13 00-0489	EA	20'	High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,591.05 72.67 145.33 -50.68 -94.09 -195.44	432.19
26 56 13 00-0490	EA	20'	High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,929.44 106.51 213.01 -64.21 -117.77 -246.20	432.19
26 56 13 00-0491	EA	25'	High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,329.07 117.66 235.31 -75.88 -139.98 -291.73	576.26
26 56 13 00-0492	EA	20'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,115.26 125.09 250.17 -71.64 -130.78 -274.07	432.19
26 56 13 00-0493	EA	25'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,571.61 141.91 283.82 -85.58 -156.96 -328.12	576.26
26 56 13 00-0494	EA	30'	High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,968.00 167.14 334.28 -99.27 -181.83 -380.37	648.29

26 56 13 00-0495 Square Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0473)

Note: Includes rubberized undercoating on embedded portion.



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0496	EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	745.50		180.08
	For Bronze Or Satin Anodized Finish, Add	38.53		
	For Black Anodized Finish, Add	77.07		
	For >10 To 20, Deduct	-24.42		
	For >20 To 40, Deduct	-44.98		
	For >40, Deduct	-93.82		
26 56 13 00-0497	EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	831.38		198.09
	For Bronze Or Satin Anodized Finish, Add	43.52		
	For Black Anodized Finish, Add	87.04		
	For >10 To 20, Deduct	-27.31		
	For >20 To 40, Deduct	-50.27		
	For >40, Deduct	-104.90		
26 56 13 00-0498	EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	887.94		216.10
	For Bronze Or Satin Anodized Finish, Add	45.58		
	For Black Anodized Finish, Add	91.15		
	For >10 To 20, Deduct	-29.03		
	For >20 To 40, Deduct	-53.51		
	For >40, Deduct	-111.58		
26 56 13 00-0499	EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	912.39		216.10
	For Bronze Or Satin Anodized Finish, Add	48.02		
	For Black Anodized Finish, Add	96.04		
	For >10 To 20, Deduct	-30.01		
	For >20 To 40, Deduct	-55.22		
	For >40, Deduct	-115.25		
26 56 13 00-0500	EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	942.71		216.10
	For Bronze Or Satin Anodized Finish, Add	51.05		
	For Black Anodized Finish, Add	102.10		
	For >10 To 20, Deduct	-31.23		
	For >20 To 40, Deduct	-57.35		
	For >40, Deduct	-119.80		
26 56 13 00-0501	EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,082.40		234.10
	For Bronze Or Satin Anodized Finish, Add	61.42		
	For Black Anodized Finish, Add	122.84		
	For >10 To 20, Deduct	-36.27		
	For >20 To 40, Deduct	-66.40		
	For >40, Deduct	-138.95		
26 56 13 00-0502	EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,160.47		252.12
	For Bronze Or Satin Anodized Finish, Add	65.62		
	For Black Anodized Finish, Add	131.25		
	For >10 To 20, Deduct	-38.86		
	For >20 To 40, Deduct	-71.15		
	For >40, Deduct	-148.86		
26 56 13 00-0503	EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,314.02		252.12
	For Bronze Or Satin Anodized Finish, Add	80.98		
	For Black Anodized Finish, Add	161.96		
	For >10 To 20, Deduct	-45.00		
	For >20 To 40, Deduct	-81.90		
	For >40, Deduct	-171.89		
26 56 13 00-0504	EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,509.28		288.13
	For Bronze Or Satin Anodized Finish, Add	93.30		
	For Black Anodized Finish, Add	186.60		
	For >10 To 20, Deduct	-51.73		
	For >20 To 40, Deduct	-94.12		
	For >40, Deduct	-197.58		
26 56 13 00-0505	EA 25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial	1,852.56		288.13
	For Bronze Or Satin Anodized Finish, Add	127.63		
	For Black Anodized Finish, Add	255.26		
	For >10 To 20, Deduct	-65.46		
	For >20 To 40, Deduct	-118.15		
	For >40, Deduct	-249.07		
26 56 13 00-0506	Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)			
26 56 13 00-0507	EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	84.58		
26 56 13 00-0508	EA Extra Handhole For Aluminum Area Light Poles	36.45		
26 56 13 00-0509	EA Vibration Dampener For Aluminum Area Light Poles	127.96		
26 56 13 00-0510	Fiberglass Area Light Poles (26 56 13 00-0177)			
	Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.			
26 56 13 00-0511	Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)			
26 56 13 00-0512	Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)			
26 56 13 00-0513	EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,285.18		252.12
	For >10 To 20, Deduct	-43.84		
	For >20 To 40, Deduct	-79.88		
	For >40, Deduct	-167.57		
26 56 13 00-0514	EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,403.69		288.13
	For >10 To 20, Deduct	-47.50		
	For >20 To 40, Deduct	-86.73		
	For >40, Deduct	-181.74		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0515	EA		14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,523.53	324.14
			For >10 To 20, Deduct	-51.22	
			For >20 To 40, Deduct	-93.68	
			For >40, Deduct	-196.12	
26 56 13 00-0516	EA		16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,642.06	360.16
			For >10 To 20, Deduct	-54.88	
			For >20 To 40, Deduct	-100.54	
			For >40, Deduct	-210.29	
26 56 13 00-0517	EA		18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,784.48	396.17
			For >10 To 20, Deduct	-59.49	
			For >20 To 40, Deduct	-109.07	
			For >40, Deduct	-228.05	
26 56 13 00-0518	EA		20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,905.65	432.19
			For >10 To 20, Deduct	-63.26	
			For >20 To 40, Deduct	-116.11	
			For >40, Deduct	-242.63	
26 56 13 00-0519	EA		22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,097.52	504.23
			For >10 To 20, Deduct	-68.77	
			For >20 To 40, Deduct	-126.66	
			For >40, Deduct	-264.21	
26 56 13 00-0520	EA		24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,288.08	576.26
			For >10 To 20, Deduct	-74.24	
			For >20 To 40, Deduct	-137.12	
			For >40, Deduct	-285.59	
26 56 13 00-0521	EA		26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,395.66	576.26
			For >10 To 20, Deduct	-78.54	
			For >20 To 40, Deduct	-144.65	
			For >40, Deduct	-301.72	
26 56 13 00-0522	EA		28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,561.99	612.28
			For >10 To 20, Deduct	-84.11	
			For >20 To 40, Deduct	-154.85	
			For >40, Deduct	-323.07	
26 56 13 00-0523	EA		30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,728.31	648.29
			For >10 To 20, Deduct	-89.68	
			For >20 To 40, Deduct	-165.05	
			For >40, Deduct	-344.42	
26 56 13 00-0524	EA		10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,407.37	252.12
			For >10 To 20, Deduct	-48.73	
			For >20 To 40, Deduct	-88.43	
			For >40, Deduct	-185.89	
26 56 13 00-0525	EA		12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,501.97	288.13
			For >10 To 20, Deduct	-51.43	
			For >20 To 40, Deduct	-93.61	
			For >40, Deduct	-196.48	
26 56 13 00-0526	EA		14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,597.91	324.14
			For >10 To 20, Deduct	-54.19	
			For >20 To 40, Deduct	-98.89	
			For >40, Deduct	-207.27	
26 56 13 00-0527	EA		16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,696.51	360.16
			For >10 To 20, Deduct	-57.06	
			For >20 To 40, Deduct	-104.35	
			For >40, Deduct	-218.46	
26 56 13 00-0528	EA		18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,801.75	396.17
			For >10 To 20, Deduct	-60.18	
			For >20 To 40, Deduct	-110.28	
			For >40, Deduct	-230.64	
26 56 13 00-0529	EA		20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,905.65	432.19
			For >10 To 20, Deduct	-63.26	
			For >20 To 40, Deduct	-116.11	
			For >40, Deduct	-242.63	
26 56 13 00-0530	EA		22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,081.59	504.23
			For >10 To 20, Deduct	-68.14	
			For >20 To 40, Deduct	-125.54	
			For >40, Deduct	-261.82	
26 56 13 00-0531	EA		24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,288.08	576.26
			For >10 To 20, Deduct	-74.24	
			For >20 To 40, Deduct	-137.12	
			For >40, Deduct	-285.59	
26 56 13 00-0532	EA		26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,333.24	576.26
			For >10 To 20, Deduct	-76.04	
			For >20 To 40, Deduct	-140.28	
			For >40, Deduct	-292.36	
26 56 13 00-0533	EA		28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,451.75	612.28
			For >10 To 20, Deduct	-79.70	
			For >20 To 40, Deduct	-147.13	
			For >40, Deduct	-306.54	
26 56 13 00-0534	EA		30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,570.27	648.29
			For >10 To 20, Deduct	-83.36	
			For >20 To 40, Deduct	-153.99	
			For >40, Deduct	-320.71	
26 56 13 00-0535	EA		10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,586.66	252.12
			For >10 To 20, Deduct	-55.90	
			For >20 To 40, Deduct	-100.98	
			For >40, Deduct	-212.79	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,699.87	288.13	
		For >10 To 20, Deduct	-59.35		
		For >20 To 40, Deduct	-107.47		
		For >40, Deduct	-226.17		
26 56 13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,813.07	324.14	
		For >10 To 20, Deduct	-62.80		
		For >20 To 40, Deduct	-113.95		
		For >40, Deduct	-239.55		
26 56 13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,927.61	360.16	
		For >10 To 20, Deduct	-66.30		
		For >20 To 40, Deduct	-120.53		
		For >40, Deduct	-253.13		
26 56 13 00-0539	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,047.45	396.17	
		For >10 To 20, Deduct	-70.01		
		For >20 To 40, Deduct	-127.47		
		For >40, Deduct	-267.50		
26 56 13 00-0540	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,175.26	432.19	
		For >10 To 20, Deduct	-74.04		
		For >20 To 40, Deduct	-134.98		
		For >40, Deduct	-283.07		
26 56 13 00-0541	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,387.06	504.23	
		For >10 To 20, Deduct	-80.36		
		For >20 To 40, Deduct	-146.93		
		For >40, Deduct	-307.64		
26 56 13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,600.19	576.26	
		For >10 To 20, Deduct	-86.72		
		For >20 To 40, Deduct	-158.96		
		For >40, Deduct	-332.40		
26 56 13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,669.26	576.26	
		For >10 To 20, Deduct	-89.48		
		For >20 To 40, Deduct	-163.80		
		For >40, Deduct	-342.76		
26 56 13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,850.19	612.28	
		For >10 To 20, Deduct	-95.64		
		For >20 To 40, Deduct	-175.02		
		For >40, Deduct	-366.30		
26 56 13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,000.58	648.29	
		For >10 To 20, Deduct	-100.57		
		For >20 To 40, Deduct	-184.11		
		For >40, Deduct	-385.26		
26 56 13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,114.96	666.30	
		For >10 To 20, Deduct	-104.61		
		For >20 To 40, Deduct	-191.40		
		For >40, Deduct	-400.61		
26 56 13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,229.34	684.31	
		For >10 To 20, Deduct	-108.64		
		For >20 To 40, Deduct	-198.68		
		For >40, Deduct	-415.97		
26 56 13 00-0548	Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0511)				
26 56 13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	806.42	180.08	
		For >10 To 20, Deduct	-26.85		
		For >20 To 40, Deduct	-49.25		
		For >40, Deduct	-102.96		
26 56 13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	867.66	198.09	
		For >10 To 20, Deduct	-28.76		
		For >20 To 40, Deduct	-52.81		
		For >40, Deduct	-110.34		
26 56 13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	927.59	216.10	
		For >10 To 20, Deduct	-30.62		
		For >20 To 40, Deduct	-56.29		
		For >40, Deduct	-117.53		
26 56 13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	950.16	216.10	
		For >10 To 20, Deduct	-31.52		
		For >20 To 40, Deduct	-57.87		
		For >40, Deduct	-120.91		
26 56 13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,023.37	234.10	
		For >10 To 20, Deduct	-33.91		
		For >20 To 40, Deduct	-62.27		
		For >40, Deduct	-130.10		
26 56 13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,085.96	252.12	
		For >10 To 20, Deduct	-35.87		
		For >20 To 40, Deduct	-65.93		
		For >40, Deduct	-137.68		
26 56 13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,152.51	270.12	
		For >10 To 20, Deduct	-38.00		
		For >20 To 40, Deduct	-69.87		
		For >40, Deduct	-145.86		
26 56 13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,225.72	288.13	
		For >10 To 20, Deduct	-40.38		
		For >20 To 40, Deduct	-74.28		
		For >40, Deduct	-155.05		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0557	EA		26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,353.22	288.13
			For >10 To 20, Deduct	-45.48	
			For >20 To 40, Deduct	-83.20	
			For >40, Deduct	-174.17	
26 56 13 00-0558	EA		28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,516.74	306.14
			For >10 To 20, Deduct	-51.49	
			For >20 To 40, Deduct	-93.93	
			For >40, Deduct	-196.90	
26 56 13 00-0559	EA		30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,680.25	324.14
			For >10 To 20, Deduct	-57.49	
			For >20 To 40, Deduct	-104.65	
			For >40, Deduct	-219.62	
26 56 13 00-0560	EA		10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	928.60	180.08
			For >10 To 20, Deduct	-31.74	
			For >20 To 40, Deduct	-57.80	
			For >40, Deduct	-121.28	
26 56 13 00-0561	EA		12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	996.49	198.09
			For >10 To 20, Deduct	-33.92	
			For >20 To 40, Deduct	-61.83	
			For >40, Deduct	-129.67	
26 56 13 00-0562	EA		14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,064.38	216.10
			For >10 To 20, Deduct	-36.09	
			For >20 To 40, Deduct	-65.86	
			For >40, Deduct	-138.05	
26 56 13 00-0563	EA		16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,097.59	216.10
			For >10 To 20, Deduct	-37.42	
			For >20 To 40, Deduct	-68.19	
			For >40, Deduct	-143.03	
26 56 13 00-0564	EA		18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,165.48	234.10
			For >10 To 20, Deduct	-39.60	
			For >20 To 40, Deduct	-72.22	
			For >40, Deduct	-151.41	
26 56 13 00-0565	EA		20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,233.38	252.12
			For >10 To 20, Deduct	-41.77	
			For >20 To 40, Deduct	-76.25	
			For >40, Deduct	-159.80	
26 56 13 00-0566	EA		22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,301.26	270.12
			For >10 To 20, Deduct	-43.95	
			For >20 To 40, Deduct	-80.28	
			For >40, Deduct	-168.18	
26 56 13 00-0567	EA		24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,399.71	288.13
			For >10 To 20, Deduct	-47.34	
			For >20 To 40, Deduct	-86.45	
			For >40, Deduct	-181.14	
26 56 13 00-0568	EA		26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,523.22	288.13
			For >10 To 20, Deduct	-52.28	
			For >20 To 40, Deduct	-95.10	
			For >40, Deduct	-199.67	
26 56 13 00-0569	EA		28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,684.09	306.14
			For >10 To 20, Deduct	-58.18	
			For >20 To 40, Deduct	-105.64	
			For >40, Deduct	-222.00	
26 56 13 00-0570	EA		30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,843.62	324.14
			For >10 To 20, Deduct	-64.02	
			For >20 To 40, Deduct	-116.09	
			For >40, Deduct	-244.13	
26 56 13 00-0571	EA		10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,036.18	180.08
			For >10 To 20, Deduct	-36.04	
			For >20 To 40, Deduct	-65.33	
			For >40, Deduct	-137.42	
26 56 13 00-0572	EA		12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,096.10	198.09
			For >10 To 20, Deduct	-37.90	
			For >20 To 40, Deduct	-68.80	
			For >40, Deduct	-144.61	
26 56 13 00-0573	EA		14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,154.70	216.10
			For >10 To 20, Deduct	-39.71	
			For >20 To 40, Deduct	-72.19	
			For >40, Deduct	-151.60	
26 56 13 00-0574	EA		16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,177.28	216.10
			For >10 To 20, Deduct	-40.61	
			For >20 To 40, Deduct	-73.77	
			For >40, Deduct	-154.98	
26 56 13 00-0575	EA		18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,235.87	234.10
			For >10 To 20, Deduct	-42.41	
			For >20 To 40, Deduct	-77.15	
			For >40, Deduct	-161.97	
26 56 13 00-0576	EA		20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,295.80	252.12
			For >10 To 20, Deduct	-44.27	
			For >20 To 40, Deduct	-80.62	
			For >40, Deduct	-169.16	
26 56 13 00-0577	EA		22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,400.87	270.12
			For >10 To 20, Deduct	-47.93	
			For >20 To 40, Deduct	-87.26	
			For >40, Deduct	-183.12	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 13 00-0578	EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,521.90		288.13
		-52.23		
		-95.01		
		-199.47		
26 56 13 00-0579	EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,598.93		288.13
		-55.31		
		-100.40		
		-211.03		
26 56 13 00-0580	EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,713.31		306.14
		-59.35		
		-107.69		
		-226.38		
26 56 13 00-0581	EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,827.68		324.14
		-63.38		
		-114.97		
		-241.74		
26 56 13 00-0582	Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)			
26 56 13 00-0583	EA Open Or Capped Top For Fiberglass Area Light Poles	47.09		
26 56 13 00-0584	EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles	47.09		
26 56 13 00-0585	EA Smooth Shaft Finish For Fiberglass Area Light Poles	89.35		
26 56 13 00-0586	EA Vibration Dampener For Fiberglass Area Light Poles	118.33		
26 56 13 00-0587	Concrete Area Light Poles (26 56 13 00-0177)			
26 56 13 00-0588	Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)			
26 56 13 00-0589	EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,422.20		612.28
26 56 13 00-0590	EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,554.11		648.29
26 56 13 00-0591	EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	2,648.62		666.30
26 56 13 00-0592	EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	3,274.83		684.31
26 56 13 00-0593	EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	3,632.78		720.33
26 56 13 00-0594	EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	4,502.13		936.42
26 56 13 00-0595	EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	5,397.46		1,152.52
26 56 13 00-0596	EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	5,167.63		612.28
	Note: Polished brown with acrylic coating finish.			
26 56 13 00-0597	EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base	5,956.59		648.29
	Note: Polished brown with acrylic coating finish.			
26 56 13 00-0598	EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'	725.36		216.10
26 56 13 00-0599	EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design	3,095.53		432.05
26 56 13 00-0600	EA Pole Base Cover For All Octagon Poles	281.00		88.17
26 56 13 00-0601	EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze	576.60		176.33
26 56 13 00-0602	Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)			
	Note: Round or square.			
26 56 13 00-0603	EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	2,554.63		288.13
26 56 13 00-0604	EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	2,891.11		360.16
26 56 13 00-0605	EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	3,196.86		432.19
26 56 13 00-0606	EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	4,460.30		648.29
26 56 13 00-0607	EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	5,135.31		684.31
26 56 13 00-0608	EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	5,864.80		720.33
26 56 13 00-0609	EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial	6,811.67		936.42
26 56 13 00-0610	Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)			
26 56 13 00-0611	EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22)	19,235.17		1,620.73
26 56 13 00-0612	EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24)	22,943.61		2,002.30
26 56 13 00-0613	EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26)	27,224.47		2,704.86
26 56 13 00-0614	Treated Wood Area Light Poles (26 56 13 00-0177)			
	See CSI section 26 05 46 00-0001 for wood poles.			
26 56 13 00-0615	Cast Iron Decorative Light Posts (26 56 13 00-0177)			
26 56 13 00-0616	Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615)			
	Note: As manufactured by Hadco and King Luminaries or an approved equal.			
26 56 13 00-0617	EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,361.91		180.08
26 56 13 00-0618	EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,443.25		207.45
26 56 13 00-0619	EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,561.53		216.10
26 56 13 00-0620	EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	1,913.24		252.12
26 56 13 00-0621	EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,226.30		273.73
26 56 13 00-0622	EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base	2,554.10		295.33
26 56 13 00-0623	Landscape Light Poles (26 56 13 00-0001)			
	Note: Excludes lighting fixtures.			
26 56 13 00-0624	Aluminum Landscape Light Poles (26 56 13 00-0623)			
	Note: Includes painted finish.			

26	26	Electrical
	26 50	Lighting
	26 56	Exterior Lighting



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 56 13 00-0625	Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)				
26 56 13 00-0626	Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)				
26 56 13 00-0627	EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....		519.22		216.10
26 56 13 00-0628	EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....		851.71		288.13
26 56 13 00-0629	Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)				
26 56 13 00-0630	EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....		478.26		216.10
26 56 13 00-0631	EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....		810.75		288.13
26 56 13 00-0632	Steel Landscape Light Poles (26 56 13 00-0623)				
	Note: Includes painted finish.				
26 56 13 00-0633	Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)				
26 56 13 00-0634	Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)				
26 56 13 00-0635	EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....		576.60		216.10
26 56 13 00-0636	Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)				
26 56 13 00-0637	EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....		544.25		216.10
26 56 13 00-0638	Light Pole Brackets And Arms (26 56 13 00-0001)				
26 56 13 00-0639	Light Pole Brackets (26 56 13 00-0638)				
26 56 13 00-0640	Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)				
26 56 13 00-0641	Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)				
26 56 13 00-0642	Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)				
	Note: Includes powdercoat finish.				
26 56 13 00-0643	EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....		665.54		43.22
	For Galvanized Finish, Add		57.91		
26 56 13 00-0644	EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket		840.26		43.22
	For Galvanized Finish, Add		75.38		
26 56 13 00-0645	EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket		893.59		43.22
	For Galvanized Finish, Add		80.72		
26 56 13 00-0646	EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket		1,222.80		43.22
	For Galvanized Finish, Add		113.64		
26 56 13 00-0647	EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket		1,274.07		43.22
	For Galvanized Finish, Add		118.76		
26 56 13 00-0648	Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)				
	Note: Includes satin brushed or painted finish.				
26 56 13 00-0649	EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket		245.86		43.22
	For Bronze Or Satin Anodized Finish, Add		15.94		
	For Black Anodized Finish, Add		31.88		
26 56 13 00-0650	EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....		296.71		43.22
	For Bronze Or Satin Anodized Finish, Add		21.03		
	For Black Anodized Finish, Add		42.05		
26 56 13 00-0651	EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....		310.40		43.22
	For Bronze Or Satin Anodized Finish, Add		22.40		
	For Black Anodized Finish, Add		44.79		
26 56 13 00-0652	EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....		358.33		43.22
	For Bronze Or Satin Anodized Finish, Add		27.19		
	For Black Anodized Finish, Add		54.38		
26 56 13 00-0653	EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....		368.11		43.22
	For Bronze Or Satin Anodized Finish, Add		28.17		
	For Black Anodized Finish, Add		56.33		
26 56 13 00-0654	Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)				
26 56 13 00-0655	Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654)				
	Note: Includes powdercoat finish.				
26 56 13 00-0656	EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....		715.43		43.22
	For Galvanized Finish, Add		62.90		
26 56 13 00-0657	EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket		882.79		43.22
	For Galvanized Finish, Add		79.64		
26 56 13 00-0658	EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket		1,079.35		43.22
	For Galvanized Finish, Add		99.29		
26 56 13 00-0659	EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket		1,276.82		43.22
	For Galvanized Finish, Add		119.04		
26 56 13 00-0660	Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)				
26 56 13 00-0661	Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660)				
	Note: Includes powdercoat finish.				



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0662	EA	One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	679.72	72.03
26 56 13 00-0663	EA	Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,022.26	72.03
26 56 13 00-0664	EA	Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,427.56	72.03
26 56 13 00-0665	EA	Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket	1,560.90	72.03
26 56 13 00-0666		Light Pole Arms (26 56 13 00-0638)		
26 56 13 00-0667		Wood Pole Streetlight Arms (26 56 13 00-0666)		
26 56 13 00-0668		Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0669	EA	1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	396.80	64.82
26 56 13 00-0670	EA	1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	420.17	72.03
26 56 13 00-0671	EA	1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	487.68	90.04
26 56 13 00-0672	EA	2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	584.31	72.03
26 56 13 00-0673	EA	2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	651.36	90.04
26 56 13 00-0674	EA	2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	790.60	108.05
26 56 13 00-0675		Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676	EA	1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	253.58	72.03
26 56 13 00-0677	EA	2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	309.75	72.03
26 56 13 00-0678	EA	2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	412.49	90.04
26 56 13 00-0679	EA	2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	538.51	108.05
26 56 13 00-0680		Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681		Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682	EA	Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	754.80	72.03
26 56 13 00-0683	EA	Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,181.94	79.23
26 56 13 00-0684	EA	Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,313.23	86.44
26 56 13 00-0685	EA	Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,559.05	93.64
26 56 13 00-0686	EA	Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	900.56	90.04
26 56 13 00-0687	EA	Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,284.74	97.25
26 56 13 00-0688		Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689	EA	Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	303.49	72.03
26 56 13 00-0690	EA	Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	374.70	90.04
26 56 13 00-0691	EA	Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	447.89	108.05
26 56 13 00-0692	EA	Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	301.53	72.03
26 56 13 00-0693	EA	Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	421.56	79.23
26 56 13 00-0694	EA	Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	370.79	90.04
26 56 13 00-0695	EA	Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	514.29	97.25
26 56 13 00-0696	EA	Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	449.84	108.05
26 56 13 00-0697	EA	Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	623.66	115.25
26 56 13 00-0698		Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699	EA	Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	2,377.31	
26 56 13 00-0700		High Mast Lighting (26 56 13 00-0001)		
26 56 13 00-0701		High Mast Lighting Assemblies (26 56 13 00-0700)		
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.				
26 56 13 00-0702	EA	60' High Mast Lighting Assembly	58,915.40	2,222.62
26 56 13 00-0703	EA	70' High Mast Lighting Assembly	62,233.48	2,327.87
26 56 13 00-0704	EA	80' High Mast Lighting Assembly	65,587.66	2,479.90
26 56 13 00-0705	EA	90' High Mast Lighting Assembly	68,975.93	2,678.73
26 56 13 00-0706	EA	100' High Mast Lighting Assembly	72,382.75	2,924.24
26 56 13 00-0707	EA	110' High Mast Lighting Assembly	76,766.82	3,216.89
26 56 13 00-0708	EA	120' High Mast Lighting Assembly	80,307.66	3,509.30
26 56 13 00-0709	EA	130' High Mast Lighting Assembly	83,577.30	3,801.71
26 56 13 00-0710	EA	140' High Mast Lighting Assembly	87,118.14	4,094.25
26 56 13 00-0711	EA	150' High Mast Lighting Assembly	91,426.39	4,386.66
26 56 13 00-0712		High Mast Light Poles (26 56 13 00-0700)		
26 56 13 00-0713	EA	60' High Mast Light Poles	22,381.06	1,334.87
26 56 13 00-0714	EA	70' High Mast Light Poles	25,667.52	1,398.10
26 56 13 00-0715	EA	80' High Mast Light Poles	28,976.04	1,489.43
26 56 13 00-0716	EA	90' High Mast Light Poles	32,304.60	1,608.87
26 56 13 00-0717	EA	100' High Mast Light Poles	35,655.21	1,756.40
26 56 13 00-0718	EA	110' High Mast Light Poles	39,027.88	1,932.04
26 56 13 00-0719	EA	120' High Mast Light Poles	41,576.89	2,107.69
26 56 13 00-0720	EA	130' High Mast Light Poles	41,569.38	3,906.25
26 56 13 00-0721	EA	140' High Mast Light Poles	46,401.72	2,458.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0722 EA 150' High Mast Light Poles	49,223.95	2,634.61
26 56 13 00-0723 High Mast Lighting Accessories (26 56 13 00-0700) See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.		
26 56 13 00-0724 EA Bottom Latching System For High Mast Lighting	1,035.99	
26 56 13 00-0725 EA Top Latching System For High Mast Lighting	2,934.02	
26 56 13 00-0726 EA Centering Springs For High Mast Lighting	2,222.10	
26 56 13 00-0727 EA Electric Power Cord For High Mast Lighting	933.65	
26 56 13 00-0728 EA Aircraft Warning Lights For High Mast Lighting	1,738.81	
26 56 13 00-0729 EA Internal Motorized Hoist For High Mast Lighting	19,003.09	
26 56 13 00-0730 EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting	19,112.19	
26 56 13 00-0731 Concrete Bases (26 56 13 00-0001)		
26 56 13 00-0732 Concrete Bases, Cast In Place (26 56 13 00-0731) Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733 EA Cast In Place Concrete Base For Poles Minimum Charge	390.39	
Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734 VLF 1-1/2' Diameter Concrete Base For Poles	64.94	
26 56 13 00-0735 VLF 2' Diameter Concrete Base For Poles	92.34	
26 56 13 00-0736 VLF 2-1/2' Diameter Concrete Base For Poles	125.67	
26 56 13 00-0737 VLF 3' Diameter Concrete Base For Poles	166.09	
26 56 13 00-0738 VLF 3-1/2' Diameter Concrete Base For Poles	223.38	
26 56 13 00-0739 VLF 4' Diameter Concrete Base For Poles	281.79	
26 56 13 00-0740 VLF 5' Diameter Concrete Base For Poles	410.51	
26 56 13 00-0741 VLF 6' Diameter Concrete Base For Poles	565.69	
26 56 18 Incandescent Exterior Lighting (26 56)		
26 56 18 00-0001 Exterior Globe (26 56 18)		
26 56 18 00-0002 Incandescent, Exterior Globe (26 56 18 00-0001)		
26 56 18 00-0003 EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	62.64	23.72
26 56 18 00-0004 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture	94.40	23.72
26 56 18 00-0005 EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	72.60	23.72
26 56 18 00-0006 EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture	98.23	23.72
26 56 18 00-0007 Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 18) Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008 EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	278.39	94.88
26 56 18 00-0009 EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	290.31	100.81
26 56 18 00-0010 EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	319.51	106.74
26 56 18 00-0011 EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	312.64	118.60
26 56 18 00-0012 EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	351.54	136.40
26 56 19 LED Exterior Lighting (26 56)		
26 56 19 00-0001 LED, Roadway Lighting (26 56 19)		
26 56 19 00-0002 LED Roadway Lighting (Philips Lumec) (26 56 19 00-0001)		
26 56 19 00-0003 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0002) Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0004 EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series)	1,500.92	174.02
For >50 To 100, Deduct	-75.05	
For >100 To 250, Deduct	-112.57	
For >250 To 500, Deduct	-178.91	
For >500 To 1,000, Deduct	-245.26	
For >1,000, Deduct	-311.60	
26 56 19 00-0005 EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,324.54	178.72
For >50 To 100, Deduct	-116.23	
For >100 To 250, Deduct	-174.34	
For >250 To 500, Deduct	-281.63	
For >500 To 1,000, Deduct	-388.92	
For >1,000, Deduct	-496.21	
26 56 19 00-0006 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) (26 56 19 00-0002) Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
26 56 19 00-0007	EA	48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,211.15		174.02
		For >50 To 100, Deduct	-60.56		
		For >100 To 250, Deduct	-90.84		
		For >250 To 500, Deduct	-142.69		
		For >500 To 1,000, Deduct	-194.55		
		For >1,000, Deduct	-246.41		
26 56 19 00-0008	EA	48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,297.46		174.02
		For >50 To 100, Deduct	-64.87		
		For >100 To 250, Deduct	-97.31		
		For >250 To 500, Deduct	-153.48		
		For >500 To 1,000, Deduct	-209.65		
		For >1,000, Deduct	-265.83		
26 56 19 00-0009	EA	48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,383.77		174.02
		For >50 To 100, Deduct	-69.19		
		For >100 To 250, Deduct	-103.78		
		For >250 To 500, Deduct	-164.27		
		For >500 To 1,000, Deduct	-224.76		
		For >1,000, Deduct	-285.25		
26 56 19 00-0010		LED Roadway Lighting (Lithonia) (26 56 19 00-0001)			
26 56 19 00-0011		Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0010)			
		Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.			
26 56 19 00-0012	EA	30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,431.67		164.60
		For >50 To 100, Deduct	-121.58		
		For >100 To 250, Deduct	-182.38		
		For >250 To 500, Deduct	-295.73		
		For >500 To 1,000, Deduct	-409.08		
		For >1,000, Deduct	-522.43		
26 56 19 00-0013	EA	60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	4,027.10		169.31
		For >50 To 100, Deduct	-201.36		
		For >100 To 250, Deduct	-302.03		
		For >250 To 500, Deduct	-494.92		
		For >500 To 1,000, Deduct	-687.81		
		For >1,000, Deduct	-880.70		
26 56 19 00-0014		LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0001)			
26 56 19 00-0015		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0014)			
		Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.			
26 56 19 00-0016	EA	20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	954.38		159.90
		For >50 To 100, Deduct	-47.72		
		For >100 To 250, Deduct	-71.58		
		For >250 To 500, Deduct	-111.30		
		For >500 To 1,000, Deduct	-151.03		
		For >1,000, Deduct	-190.75		
26 56 19 00-0017	EA	30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,071.40		164.60
		For >50 To 100, Deduct	-53.57		
		For >100 To 250, Deduct	-80.36		
		For >250 To 500, Deduct	-125.69		
		For >500 To 1,000, Deduct	-171.03		
		For >1,000, Deduct	-216.37		
26 56 19 00-0018	EA	40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,212.54		169.31
		For >50 To 100, Deduct	-60.63		
		For >100 To 250, Deduct	-90.94		
		For >250 To 500, Deduct	-143.10		
		For >500 To 1,000, Deduct	-195.26		
		For >1,000, Deduct	-247.43		
26 56 19 00-0019	EA	50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,331.42		174.02
		For >50 To 100, Deduct	-66.57		
		For >100 To 250, Deduct	-99.86		
		For >250 To 500, Deduct	-157.73		
		For >500 To 1,000, Deduct	-215.60		
		For >1,000, Deduct	-273.47		
26 56 19 00-0020	EA	60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,450.29		178.72
		For >50 To 100, Deduct	-72.51		
		For >100 To 250, Deduct	-108.77		
		For >250 To 500, Deduct	-172.35		
		For >500 To 1,000, Deduct	-235.93		
		For >1,000, Deduct	-299.51		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0021	EA		70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,732.45	183.42
			For >50 To 100, Deduct	-86.62	
			For >100 To 250, Deduct	-129.93	
			For >250 To 500, Deduct	-207.39	
			For >500 To 1,000, Deduct	-284.84	
			For >1,000, Deduct	-362.29	
26 56 19 00-0022	EA		80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,851.33	188.13
			For >50 To 100, Deduct	-92.57	
			For >100 To 250, Deduct	-138.85	
			For >250 To 500, Deduct	-222.01	
			For >500 To 1,000, Deduct	-305.17	
			For >1,000, Deduct	-388.33	
26 56 19 00-0023	EA		90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,968.36	192.83
			For >50 To 100, Deduct	-98.42	
			For >100 To 250, Deduct	-147.63	
			For >250 To 500, Deduct	-236.40	
			For >500 To 1,000, Deduct	-325.18	
			For >1,000, Deduct	-413.96	
26 56 19 00-0024	EA		100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,196.71	197.53
			For >50 To 100, Deduct	-109.84	
			For >100 To 250, Deduct	-164.75	
			For >250 To 500, Deduct	-264.71	
			For >500 To 1,000, Deduct	-364.67	
			For >1,000, Deduct	-464.63	
26 56 19 00-0025	EA		110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,315.59	202.23
			For >50 To 100, Deduct	-115.78	
			For >100 To 250, Deduct	-173.67	
			For >250 To 500, Deduct	-279.34	
			For >500 To 1,000, Deduct	-385.00	
			For >1,000, Deduct	-490.67	
26 56 19 00-0026	EA		120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,434.46	206.94
			For >50 To 100, Deduct	-121.72	
			For >100 To 250, Deduct	-182.58	
			For >250 To 500, Deduct	-293.96	
			For >500 To 1,000, Deduct	-405.34	
			For >1,000, Deduct	-516.71	
26 56 19 00-0027			Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0014) Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028	EA		40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,889.78	169.31
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-94.49	
			For >100 To 250, Deduct	-141.73	
			For >250 To 500, Deduct	-227.76	
			For >500 To 1,000, Deduct	-313.78	
			For >1,000, Deduct	-399.80	
26 56 19 00-0029	EA		60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,181.34	178.72
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-109.07	
			For >100 To 250, Deduct	-163.60	
			For >250 To 500, Deduct	-263.73	
			For >500 To 1,000, Deduct	-363.86	
			For >1,000, Deduct	-463.99	
26 56 19 00-0030	EA		80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,472.90	188.13
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-123.65	
			For >100 To 250, Deduct	-185.47	
			For >250 To 500, Deduct	-299.71	
			For >500 To 1,000, Deduct	-413.95	
			For >1,000, Deduct	-528.18	
26 56 19 00-0031	EA		100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,764.48	197.53
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-138.22	
			For >100 To 250, Deduct	-207.34	
			For >250 To 500, Deduct	-335.68	
			For >500 To 1,000, Deduct	-464.03	
			For >1,000, Deduct	-592.38	
26 56 19 00-0032	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,634.94	206.94
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-181.75	
			For >100 To 250, Deduct	-272.62	
			For >250 To 500, Deduct	-444.02	
			For >500 To 1,000, Deduct	-615.42	
			For >1,000, Deduct	-786.82	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0033	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,926.50	216.34
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-196.33	
			For >100 To 250, Deduct	-294.49	
			For >250 To 500, Deduct	-480.00	
			For >500 To 1,000, Deduct	-665.50	
			For >1,000, Deduct	-851.01	
26 56 19 00-0034	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	4,218.07	225.75
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-210.90	
			For >100 To 250, Deduct	-316.36	
			For >250 To 500, Deduct	-515.97	
			For >500 To 1,000, Deduct	-715.59	
			For >1,000, Deduct	-915.20	
26 56 19 00-0035			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) (26 56 19 00-0014)		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0036	EA		4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	795.88	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Backlight Control Shield, Add	37.62	
			For Field Adjustable Output, Add	32.83	
			For Bird Spikes, Add	58.29	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Fuse, Add	65.65	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For 480 Volt, Add	98.48	
			For Multi-Level, Add	142.23	
			For >50 To 100, Deduct	-39.79	
			For >100 To 250, Deduct	-59.69	
			For >250 To 500, Deduct	-91.02	
			For >500 To 1,000, Deduct	-122.35	
			For >1,000, Deduct	-153.68	
26 56 19 00-0037	EA		5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	795.88	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Backlight Control Shield, Add	37.62	
			For Field Adjustable Output, Add	32.83	
			For Bird Spikes, Add	58.29	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Fuse, Add	65.65	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For 480 Volt, Add	98.48	
			For Multi-Level, Add	142.23	
			For >50 To 100, Deduct	-39.79	
			For >100 To 250, Deduct	-59.69	
			For >250 To 500, Deduct	-91.02	
			For >500 To 1,000, Deduct	-122.35	
			For >1,000, Deduct	-153.68	
26 56 19 00-0038	EA		8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	878.59	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Backlight Control Shield, Add	37.62	
			For Field Adjustable Output, Add	32.83	
			For Bird Spikes, Add	58.29	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For 480 Volt, Add	98.48	
			For >50 To 100, Deduct	-43.93	
			For >100 To 250, Deduct	-65.89	
			For >250 To 500, Deduct	-101.36	
			For >500 To 1,000, Deduct	-136.82	
			For >1,000, Deduct	-172.29	
26 56 19 00-0039	EA		8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	878.59	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Backlight Control Shield, Add	37.62	
			For Field Adjustable Output, Add	32.83	
			For Bird Spikes, Add	58.29	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For 480 Volt, Add	98.48	
			For >50 To 100, Deduct	-43.93	
			For >100 To 250, Deduct	-65.89	
			For >250 To 500, Deduct	-101.36	
			For >500 To 1,000, Deduct	-136.82	
			For >1,000, Deduct	-172.29	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0040	EA		9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	1,025.64	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Field Adjustable Output, Add	32.83	
			For Backlight Control Shield, Add	53.69	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Fuse, Add	65.65	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For Bird Spikes, Add	95.06	
			For 480 Volt, Add	98.48	
			For Multi-Level, Add	142.23	
			For >50 To 100, Deduct	-51.28	
			For >100 To 250, Deduct	-76.92	
			For >250 To 500, Deduct	-119.74	
			For >500 To 1,000, Deduct	-162.56	
			For >1,000, Deduct	-205.37	
26 56 19 00-0041	EA		10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	1,025.64	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Field Adjustable Output, Add	32.83	
			For Backlight Control Shield, Add	53.69	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Fuse, Add	65.65	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For Bird Spikes, Add	95.06	
			For 480 Volt, Add	98.48	
			For Multi-Level, Add	142.23	
			For >50 To 100, Deduct	-51.28	
			For >100 To 250, Deduct	-76.92	
			For >250 To 500, Deduct	-119.74	
			For >500 To 1,000, Deduct	-162.56	
			For >1,000, Deduct	-205.37	
26 56 19 00-0042	EA		13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,163.52	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Field Adjustable Output, Add	32.83	
			For Backlight Control Shield, Add	53.69	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For Bird Spikes, Add	95.06	
			For 480 Volt, Add	98.48	
			For >50 To 100, Deduct	-58.18	
			For >100 To 250, Deduct	-87.26	
			For >250 To 500, Deduct	-136.97	
			For >500 To 1,000, Deduct	-186.69	
			For >1,000, Deduct	-236.40	
26 56 19 00-0043	EA		14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,163.52	169.31
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Field Adjustable Output, Add	32.83	
			For Backlight Control Shield, Add	53.69	
			For Field Adjustable Output And Utility Label, Add	43.77	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
			For Bird Spikes, Add	95.06	
			For 480 Volt, Add	98.48	
			For >50 To 100, Deduct	-58.18	
			For >100 To 250, Deduct	-87.26	
			For >250 To 500, Deduct	-136.97	
			For >500 To 1,000, Deduct	-186.69	
			For >1,000, Deduct	-236.40	
26 56 19 00-0044	EA		2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	648.82	169.31
			For Utility Label, Add	10.94	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	32.83	
			For 0 To 10 Volt Dimming, Add	65.65	
			For >50 To 100, Deduct	-32.44	
			For >100 To 250, Deduct	-48.66	
			For >250 To 500, Deduct	-72.64	
			For >500 To 1,000, Deduct	-96.61	
			For >1,000, Deduct	-120.59	
26 56 19 00-0045	EA		2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	648.82	169.31
			For Utility Label, Add	10.94	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	32.83	
			For 0 To 10 Volt Dimming, Add	65.65	
			For >50 To 100, Deduct	-32.44	
			For >100 To 250, Deduct	-48.66	
			For >250 To 500, Deduct	-72.64	
			For >500 To 1,000, Deduct	-96.61	
			For >1,000, Deduct	-120.59	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 56 19 00-0046	EA	3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C)	683.29	169.31
		For Utility Label, Add	10.94	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
		For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	32.83	
		For 0 To 10 Volt Dimming, Add	65.65	
		For >50 To 100, Deduct	-34.16	
		For >100 To 250, Deduct	-51.25	
		For >250 To 500, Deduct	-76.95	
		For >500 To 1,000, Deduct	-102.64	
		For >1,000, Deduct	-128.34	
26 56 19 00-0047	EA	4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C)	683.29	169.31
		For Utility Label, Add	10.94	
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
		For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	32.83	
		For 0 To 10 Volt Dimming, Add	65.65	
		For >50 To 100, Deduct	-34.16	
		For >100 To 250, Deduct	-51.25	
		For >250 To 500, Deduct	-76.95	
		For >500 To 1,000, Deduct	-102.64	
		For >1,000, Deduct	-128.34	
26 56 19 00-0048	EA	4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A)	694.77	169.31
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
		For Field Adjustable Output, Add	32.83	
		For Field Adjustable Output And Utility Label, Add	43.77	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
		For 0 To 10 Volt Dimming, Add	65.65	
		For >50 To 100, Deduct	-34.74	
		For >100 To 250, Deduct	-52.11	
		For >250 To 500, Deduct	-78.38	
		For >500 To 1,000, Deduct	-104.65	
		For >1,000, Deduct	-130.93	
26 56 19 00-0049	EA	4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A)	694.77	169.31
		For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
		For Field Adjustable Output, Add	32.83	
		For Field Adjustable Output And Utility Label, Add	43.77	
		For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	65.65	
		For 0 To 10 Volt Dimming, Add	65.65	
		For >50 To 100, Deduct	-34.74	
		For >100 To 250, Deduct	-52.11	
		For >250 To 500, Deduct	-78.38	
		For >500 To 1,000, Deduct	-104.65	
		For >1,000, Deduct	-130.93	
26 56 19 00-0050		Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)		
		(26 56 19 00-0014)		
		Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051	EA	3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N)	671.80	169.31
		For Field Adjustable Output, Add	32.83	
		For Backlight Control Shield, Add	71.64	
		For Bird Spikes, Add	95.71	
		For >50 To 100, Deduct	-33.59	
		For >100 To 250, Deduct	-50.39	
		For >250 To 500, Deduct	-75.51	
		For >500 To 1,000, Deduct	-100.63	
		For >1,000, Deduct	-125.76	
26 56 19 00-0052	EA	3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N)	671.80	169.31
		For Field Adjustable Output, Add	32.83	
		For Backlight Control Shield, Add	71.64	
		For Bird Spikes, Add	95.71	
		For >50 To 100, Deduct	-33.59	
		For >100 To 250, Deduct	-50.39	
		For >250 To 500, Deduct	-75.51	
		For >500 To 1,000, Deduct	-100.63	
		For >1,000, Deduct	-125.76	
26 56 19 00-0053	EA	5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N)	694.77	169.31
		For Field Adjustable Output, Add	32.83	
		For Backlight Control Shield, Add	71.64	
		For Bird Spikes, Add	95.71	
		For >50 To 100, Deduct	-34.74	
		For >100 To 250, Deduct	-52.11	
		For >250 To 500, Deduct	-78.38	
		For >500 To 1,000, Deduct	-104.65	
		For >1,000, Deduct	-130.93	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
26 56 19 00-0054	EA	5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	694.77		169.31
		For Field Adjustable Output, Add	32.83		
		For Backlight Control Shield, Add	71.64		
		For Bird Spikes, Add	95.71		
		For >50 To 100, Deduct	-34.74		
		For >100 To 250, Deduct	-52.11		
		For >250 To 500, Deduct	-78.38		
		For >500 To 1,000, Deduct	-104.65		
		For >1,000, Deduct	-130.93		
26 56 19 00-0055		LED Roadway Lighting (Cooper Lighting) (26 56 19 00-0001)			
26 56 19 00-0056		Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™) (26 56 19 00-0055)			
		Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.			
26 56 19 00-0057	EA	1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,061.61		169.31
		For >50 To 100, Deduct	-53.08		
		For >100 To 250, Deduct	-79.62		
		For >250 To 500, Deduct	-124.24		
		For >500 To 1,000, Deduct	-168.85		
		For >1,000, Deduct	-213.47		
26 56 19 00-0058	EA	2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,441.54		188.13
		For >50 To 100, Deduct	-72.08		
		For >100 To 250, Deduct	-108.12		
		For >250 To 500, Deduct	-170.79		
		For >500 To 1,000, Deduct	-233.46		
		For >1,000, Deduct	-296.13		
26 56 19 00-0059	EA	3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,545.34		216.34
		For >50 To 100, Deduct	-77.27		
		For >100 To 250, Deduct	-115.90		
		For >250 To 500, Deduct	-182.35		
		For >500 To 1,000, Deduct	-248.80		
		For >1,000, Deduct	-315.25		
26 56 19 00-0060	EA	4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,304.85		235.15
		For >50 To 100, Deduct	-115.24		
		For >100 To 250, Deduct	-172.86		
		For >250 To 500, Deduct	-276.35		
		For >500 To 1,000, Deduct	-379.83		
		For >1,000, Deduct	-483.32		
26 56 19 00-0061	EA	6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	3,025.53		267.71
		For >50 To 100, Deduct	-151.28		
		For >100 To 250, Deduct	-226.91		
		For >250 To 500, Deduct	-364.81		
		For >500 To 1,000, Deduct	-502.70		
		For >1,000, Deduct	-640.59		
26 56 19 00-0062		LED Roadway Lighting (PlanLED) (26 56 19 00-0001)			
26 56 19 00-0063		Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0062)			
		Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.			
26 56 19 00-0064	EA	8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W).....	1,278.35		164.60
		For >50 To 100, Deduct	-63.92		
		For >100 To 250, Deduct	-95.88		
		For >250 To 500, Deduct	-151.56		
		For >500 To 1,000, Deduct	-207.25		
		For >1,000, Deduct	-262.94		
26 56 19 00-0065	EA	11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W).....	1,391.32		166.42
		For >50 To 100, Deduct	-69.57		
		For >100 To 250, Deduct	-104.35		
		For >250 To 500, Deduct	-165.59		
		For >500 To 1,000, Deduct	-226.84		
		For >1,000, Deduct	-288.08		
26 56 19 00-0066	EA	15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W).....	1,480.20		169.31
		For >50 To 100, Deduct	-74.01		
		For >100 To 250, Deduct	-111.02		
		For >250 To 500, Deduct	-176.56		
		For >500 To 1,000, Deduct	-242.10		
		For >1,000, Deduct	-307.65		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 56 19 00-0067	Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0062) Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.			
26 56 19 00-0068	EA 7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060)	839.55		160.63
	For >50 To 100, Deduct	-41.98		
	For >100 To 250, Deduct	-62.97		
	For >250 To 500, Deduct	-96.91		
	For >500 To 1,000, Deduct	-130.86		
	For >1,000, Deduct	-164.81		
26 56 19 00-0069	EA 10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	900.03		163.52
	For >50 To 100, Deduct	-45.00		
	For >100 To 250, Deduct	-67.50		
	For >250 To 500, Deduct	-104.33		
	For >500 To 1,000, Deduct	-141.15		
	For >1,000, Deduct	-177.98		
26 56 19 00-0070	EA 12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	995.48		166.42
	For >50 To 100, Deduct	-49.77		
	For >100 To 250, Deduct	-74.66		
	For >250 To 500, Deduct	-116.11		
	For >500 To 1,000, Deduct	-157.57		
	For >1,000, Deduct	-199.02		
26 56 19 00-0071	Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0062) Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.			
26 56 19 00-0072	EA 13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	1,058.90		166.42
	For 0 To 10 Volt Dimming, Add	94.53		
	For 347-480 Volt, Add	94.53		
	For >50 To 100, Deduct	-52.95		
	For >100 To 250, Deduct	-79.42		
	For >250 To 500, Deduct	-124.04		
	For >500 To 1,000, Deduct	-168.67		
	For >1,000, Deduct	-213.29		
26 56 19 00-0073	EA 16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130)	1,175.51		167.87
	For 0 To 10 Volt Dimming, Add	94.53		
	For 347-480 Volt, Add	28.56		
	For >50 To 100, Deduct	-58.78		
	For >100 To 250, Deduct	-88.16		
	For >250 To 500, Deduct	-138.55		
	For >500 To 1,000, Deduct	-188.93		
	For >1,000, Deduct	-239.31		
26 56 19 00-0074	EA 19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150)	1,265.88		169.31
	For 0 To 10 Volt Dimming, Add	94.53		
	For 347-480 Volt, Add	118.07		
	For >50 To 100, Deduct	-63.29		
	For >100 To 250, Deduct	-94.94		
	For >250 To 500, Deduct	-149.77		
	For >500 To 1,000, Deduct	-204.60		
	For >1,000, Deduct	-259.43		
26 56 19 00-0075	LED Roadway Lighting (General Electric) (26 56 19 00-0001)			
26 56 19 00-0076	Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric) (26 56 19 00-0075) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.			
26 56 19 00-0077	EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY)	639.23		159.90
	For LightGrid™ Wireless Outdoor Controller, Add	20.00		
	For >50 To 100, Deduct	-31.96		
	For >100 To 250, Deduct	-47.94		
	For >250 To 500, Deduct	-71.91		
	For >500 To 1,000, Deduct	-95.87		
	For >1,000, Deduct	-119.84		
26 56 19 00-0078	EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY)	643.57		162.08
	For LightGrid™ Wireless Outdoor Controller, Add	20.00		
	For >50 To 100, Deduct	-32.18		
	For >100 To 250, Deduct	-48.27		
	For >250 To 500, Deduct	-72.34		
	For >500 To 1,000, Deduct	-96.42		
	For >1,000, Deduct	-120.49		
26 56 19 00-0079	EA 4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY)	670.73		164.60
	For LightGrid™ Wireless Outdoor Controller, Add	20.00		
	For >50 To 100, Deduct	-33.54		
	For >100 To 250, Deduct	-50.30		
	For >250 To 500, Deduct	-75.61		
	For >500 To 1,000, Deduct	-100.92		
	For >1,000, Deduct	-126.22		

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 19 00-0080	EA	5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY).....	698.46		166.42
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-34.92		
		For >100 To 250, Deduct	-52.38		
		For >250 To 500, Deduct	-78.99		
		For >500 To 1,000, Deduct	-105.59		
		For >1,000, Deduct	-132.19		
26 56 19 00-0081	EA	7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY).....	771.98		170.04
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-38.60		
		For >100 To 250, Deduct	-57.90		
		For >250 To 500, Deduct	-88.00		
		For >500 To 1,000, Deduct	-118.09		
		For >1,000, Deduct	-148.19		
26 56 19 00-0082	EA	8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....	811.03		171.49
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-40.55		
		For >100 To 250, Deduct	-60.83		
		For >250 To 500, Deduct	-92.80		
		For >500 To 1,000, Deduct	-124.78		
		For >1,000, Deduct	-156.76		
26 56 19 00-0083	EA	9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....	884.41		174.02
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-44.22		
		For >100 To 250, Deduct	-66.33		
		For >250 To 500, Deduct	-101.85		
		For >500 To 1,000, Deduct	-137.37		
		For >1,000, Deduct	-172.89		
26 56 19 00-0084	EA	13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	1,040.46		178.72
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-52.02		
		For >100 To 250, Deduct	-78.03		
		For >250 To 500, Deduct	-121.12		
		For >500 To 1,000, Deduct	-164.21		
		For >1,000, Deduct	-207.30		
26 56 19 00-0085	EA	19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	1,219.98		188.13
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For >50 To 100, Deduct	-61.00		
		For >100 To 250, Deduct	-91.50		
		For >250 To 500, Deduct	-143.09		
		For >500 To 1,000, Deduct	-194.68		
		For >1,000, Deduct	-246.28		
26 56 19 00-0086		LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0001)			
26 56 19 00-0087		Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0086)			
		Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.			
26 56 19 00-0088	EA	4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	1,239.04		164.60
		For >50 To 100, Deduct	-61.95		
		For >100 To 250, Deduct	-92.93		
		For >250 To 500, Deduct	-146.65		
		For >500 To 1,000, Deduct	-200.37		
		For >1,000, Deduct	-254.09		
26 56 19 00-0089	EA	6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	1,540.20		169.31
		For >50 To 100, Deduct	-77.01		
		For >100 To 250, Deduct	-115.52		
		For >250 To 500, Deduct	-184.06		
		For >500 To 1,000, Deduct	-252.60		
		For >1,000, Deduct	-321.15		
26 56 19 00-0090	EA	9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	2,150.55		174.02
		For >50 To 100, Deduct	-107.53		
		For >100 To 250, Deduct	-161.29		
		For >250 To 500, Deduct	-260.12		
		For >500 To 1,000, Deduct	-358.94		
		For >1,000, Deduct	-457.77		
26 56 19 00-0091	EA	13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	2,765.08		180.89
		For >50 To 100, Deduct	-138.25		
		For >100 To 250, Deduct	-207.38		
		For >250 To 500, Deduct	-336.59		
		For >500 To 1,000, Deduct	-465.80		
		For >1,000, Deduct	-595.01		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0092	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	3,365.74	185.96
			For >50 To 100, Deduct	-168.29	
			For >100 To 250, Deduct	-252.43	
			For >250 To 500, Deduct	-411.42	
			For >500 To 1,000, Deduct	-570.41	
			For >1,000, Deduct	-729.40	
26 56 19 00-0093			LED Roadway Lighting (Leotek) (26 56 19 00-0001)		
26 56 19 00-0094			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0093)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0095	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL)	654.06	164.60
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
			For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
			For >50 To 100, Deduct	-32.70	
			For >100 To 250, Deduct	-49.05	
			For >250 To 500, Deduct	-73.53	
			For >500 To 1,000, Deduct	-98.00	
			For >1,000, Deduct	-122.47	
26 56 19 00-0096	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL)	668.23	166.42
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
			For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
			For >50 To 100, Deduct	-33.41	
			For >100 To 250, Deduct	-50.12	
			For >250 To 500, Deduct	-75.21	
			For >500 To 1,000, Deduct	-100.30	
			For >1,000, Deduct	-125.39	
26 56 19 00-0097	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL)	712.58	167.50
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
			For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
			For >50 To 100, Deduct	-35.63	
			For >100 To 250, Deduct	-53.44	
			For >250 To 500, Deduct	-80.70	
			For >500 To 1,000, Deduct	-107.95	
			For >1,000, Deduct	-135.20	
26 56 19 00-0098	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL)	826.85	174.02
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
			For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
			For >50 To 100, Deduct	-41.34	
			For >100 To 250, Deduct	-62.01	
			For >250 To 500, Deduct	-94.66	
			For >500 To 1,000, Deduct	-127.30	
			For >1,000, Deduct	-159.94	
26 56 19 00-0099	EA		Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL)	967.03	178.72
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
			For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
			For >50 To 100, Deduct	-48.35	
			For >100 To 250, Deduct	-72.53	
			For >250 To 500, Deduct	-111.94	
			For >500 To 1,000, Deduct	-151.36	
			For >1,000, Deduct	-190.77	
26 56 19 00-0100	EA		Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL)	972.82	181.61
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	10.04	
			For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
			For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
			For >50 To 100, Deduct	-48.64	
			For >100 To 250, Deduct	-72.96	
			For >250 To 500, Deduct	-112.52	
			For >500 To 1,000, Deduct	-152.08	
			For >1,000, Deduct	-191.64	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
26 56 19 00-0101	EA	Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL)	1,191.66		184.51
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-59.58		
		For >100 To 250, Deduct	-89.37		
		For >250 To 500, Deduct	-139.73		
		For >500 To 1,000, Deduct	-190.09		
		For >1,000, Deduct	-240.45		
26 56 19 00-0102	EA	Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL)	1,249.51		188.13
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-62.48		
		For >100 To 250, Deduct	-93.71		
		For >250 To 500, Deduct	-146.78		
		For >500 To 1,000, Deduct	-199.85		
		For >1,000, Deduct	-252.92		
26 56 19 00-0103	EA	Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL)	1,394.53		191.01
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-69.73		
		For >100 To 250, Deduct	-104.59		
		For >250 To 500, Deduct	-164.77		
		For >500 To 1,000, Deduct	-224.94		
		For >1,000, Deduct	-285.12		
26 56 19 00-0104	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL)	1,495.24		193.91
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-74.76		
		For >100 To 250, Deduct	-112.14		
		For >250 To 500, Deduct	-177.21		
		For >500 To 1,000, Deduct	-242.28		
		For >1,000, Deduct	-307.34		
26 56 19 00-0105	EA	Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL)	756.82		166.42
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-37.84		
		For >100 To 250, Deduct	-56.76		
		For >250 To 500, Deduct	-86.28		
		For >500 To 1,000, Deduct	-115.80		
		For >1,000, Deduct	-145.32		
26 56 19 00-0106	EA	Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL)	830.89		170.76
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-41.54		
		For >100 To 250, Deduct	-62.32		
		For >250 To 500, Deduct	-95.32		
		For >500 To 1,000, Deduct	-128.33		
		For >1,000, Deduct	-161.34		
26 56 19 00-0107	EA	Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL)	896.46		174.02
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-44.82		
		For >100 To 250, Deduct	-67.23		
		For >250 To 500, Deduct	-103.36		
		For >500 To 1,000, Deduct	-139.48		
		For >1,000, Deduct	-175.60		



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 56 19 00-0108	EA	Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	952.92	177.99
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	10.04	
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
		For >50 To 100, Deduct	-47.65	
		For >100 To 250, Deduct	-71.47	
		For >250 To 500, Deduct	-110.22	
		For >500 To 1,000, Deduct	-148.96	
		For >1,000, Deduct	-187.71	
26 56 19 00-0109	EA	Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	1,010.67	179.44
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	10.04	
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
		For >50 To 100, Deduct	-50.53	
		For >100 To 250, Deduct	-75.80	
		For >250 To 500, Deduct	-117.36	
		For >500 To 1,000, Deduct	-158.92	
		For >1,000, Deduct	-200.48	
26 56 19 00-0110	EA	Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	1,202.99	185.96
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	10.04	
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
		For >50 To 100, Deduct	-60.15	
		For >100 To 250, Deduct	-90.22	
		For >250 To 500, Deduct	-141.08	
		For >500 To 1,000, Deduct	-191.93	
		For >1,000, Deduct	-242.78	
26 56 19 00-0111	EA	Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	1,359.99	189.58
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	10.04	
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
		For >50 To 100, Deduct	-68.00	
		For >100 To 250, Deduct	-102.00	
		For >250 To 500, Deduct	-160.52	
		For >500 To 1,000, Deduct	-219.04	
		For >1,000, Deduct	-277.56	
26 56 19 00-0112	EA	Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	1,445.81	190.30
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	10.04	
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
		For >50 To 100, Deduct	-72.29	
		For >100 To 250, Deduct	-108.44	
		For >250 To 500, Deduct	-171.21	
		For >500 To 1,000, Deduct	-233.99	
		For >1,000, Deduct	-296.76	
26 56 19 00-0113	EA	Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	1,528.19	192.46
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	10.04	
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
		For >50 To 100, Deduct	-76.41	
		For >100 To 250, Deduct	-114.61	
		For >250 To 500, Deduct	-181.40	
		For >500 To 1,000, Deduct	-248.19	
		For >1,000, Deduct	-314.97	
26 56 19 00-0114	EA	Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	812.51	181.61
		For LightGrid™ Wireless Outdoor Controller, Add	20.00	
		For Twist Lock Shorting Cap, Add	10.04	
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13	
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92	
		For >50 To 100, Deduct	-40.63	
		For >100 To 250, Deduct	-60.94	
		For >250 To 500, Deduct	-92.48	
		For >500 To 1,000, Deduct	-124.03	
		For >1,000, Deduct	-155.57	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 56 19 00-0115	EA	Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP)	879.41		183.42
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-43.97		
		For >100 To 250, Deduct	-65.96		
		For >250 To 500, Deduct	-100.76		
		For >500 To 1,000, Deduct	-135.55		
		For >1,000, Deduct	-170.35		
26 56 19 00-0116	EA	Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL)	625.31		166.05
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-31.27		
		For >100 To 250, Deduct	-46.90		
		For >250 To 500, Deduct	-69.86		
		For >500 To 1,000, Deduct	-92.82		
		For >1,000, Deduct	-115.79		
26 56 19 00-0117	EA	Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL)	636.65		167.50
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-31.83		
		For >100 To 250, Deduct	-47.75		
		For >250 To 500, Deduct	-71.21		
		For >500 To 1,000, Deduct	-94.66		
		For >1,000, Deduct	-118.12		
26 56 19 00-0118	EA	Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL)	691.67		170.76
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-34.58		
		For >100 To 250, Deduct	-51.88		
		For >250 To 500, Deduct	-77.92		
		For >500 To 1,000, Deduct	-103.97		
		For >1,000, Deduct	-130.01		
26 56 19 00-0119	EA	Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL)	1,062.99		184.51
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-53.15		
		For >100 To 250, Deduct	-79.72		
		For >250 To 500, Deduct	-123.65		
		For >500 To 1,000, Deduct	-167.57		
		For >1,000, Deduct	-211.50		
26 56 19 00-0120	EA	Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL)	1,386.75		190.30
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-69.34		
		For >100 To 250, Deduct	-104.01		
		For >250 To 500, Deduct	-163.83		
		For >500 To 1,000, Deduct	-223.65		
		For >1,000, Deduct	-283.47		
26 56 19 00-0121	EA	Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL)	1,236.32		191.01
		For LightGrid™ Wireless Outdoor Controller, Add	20.00		
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-61.82		
		For >100 To 250, Deduct	-92.72		
		For >250 To 500, Deduct	-144.99		
		For >500 To 1,000, Deduct	-197.25		
		For >1,000, Deduct	-249.52		
26 56 19 00-0122	EA	Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY)	600.73		166.42
		For Twist Lock Shorting Cap, Add	10.04		
		For ANSI 7-wire Photocontrol Receptacle, Add	30.13		
		For Ripley Long-Life Twist Lock Photocontrol, Add	53.92		
		For >50 To 100, Deduct	-30.04		
		For >100 To 250, Deduct	-45.05		
		For >250 To 500, Deduct	-66.77		
		For >500 To 1,000, Deduct	-88.49		
		For >1,000, Deduct	-110.20		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
26 56 19 00-0123	LED, Wall Packs (26 56 19)			
26 56 19 00-0124	Full Cutoff, LED Wall Packs (26 56 19 00-0123)			
26 56 19 00-0125	Full Cutoff, LED Wall Packs (Lithonia) (26 56 19 00-0124)			
26 56 19 00-0126	EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,011.38		126.62
	For >50 To 100, Deduct	-50.57		
	For >100 To 250, Deduct	-75.85		
	For >250 To 500, Deduct	-120.09		
	For >500 To 1,000, Deduct	-164.33		
	For >1,000, Deduct	-208.57		
26 56 19 00-0127	EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED)	1,093.68		126.62
	For >50 To 100, Deduct	-54.68		
	For >100 To 250, Deduct	-82.03		
	For >250 To 500, Deduct	-130.38		
	For >500 To 1,000, Deduct	-178.73		
	For >1,000, Deduct	-227.09		
26 56 19 00-0128	Full Cutoff, LED Wall Packs (CREE® BetaLED®) (26 56 19 00-0124)			
26 56 19 00-0129	Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) (26 56 19 00-0128)			
	Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.			
26 56 19 00-0130	EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,038.72		123.00
	Note: Includes 350mA or 525mA driver.			
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88		
	For Bird Spikes, Add	53.66		
	For Fuse, Add	65.65		
	For 0 To 10 Volt Dimming, Add	65.65		
	For 480 Volt, Add	98.48		
	For Multi-Level, Add	142.23		
	For >50 To 100, Deduct	-51.94		
	For >100 To 250, Deduct	-77.90		
	For >250 To 500, Deduct	-123.69		
	For >500 To 1,000, Deduct	-169.48		
	For >1,000, Deduct	-215.26		
26 56 19 00-0131	EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,340.43		130.24
	Note: Includes 350mA or 525mA driver.			
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88		
	For Bird Spikes, Add	54.38		
	For Fuse, Add	65.65		
	For 0 To 10 Volt Dimming, Add	65.65		
	For 480 Volt, Add	98.48		
	For Multi-Level, Add	142.23		
	For >50 To 100, Deduct	-67.02		
	For >100 To 250, Deduct	-100.53		
	For >250 To 500, Deduct	-161.04		
	For >500 To 1,000, Deduct	-221.55		
	For >1,000, Deduct	-282.06		
26 56 19 00-0132	EA 60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,503.26		137.47
	Note: Includes 350mA or 525mA driver.			
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88		
	For Bird Spikes, Add	55.11		
	For Fuse, Add	65.65		
	For 0 To 10 Volt Dimming, Add	65.65		
	For 480 Volt, Add	98.48		
	For Multi-Level, Add	142.23		
	For >50 To 100, Deduct	-75.16		
	For >100 To 250, Deduct	-112.74		
	For >250 To 500, Deduct	-181.03		
	For >500 To 1,000, Deduct	-249.32		
	For >1,000, Deduct	-317.61		
26 56 19 00-0133	EA 80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	1,943.82		144.71
	Note: Includes 350mA or 525mA driver.			
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88		
	For Bird Spikes, Add	55.83		
	For Fuse, Add	65.65		
	For 0 To 10 Volt Dimming, Add	65.65		
	For 480 Volt, Add	98.48		
	For Multi-Level, Add	142.23		
	For >50 To 100, Deduct	-97.19		
	For >100 To 250, Deduct	-145.79		
	For >250 To 500, Deduct	-235.74		
	For >500 To 1,000, Deduct	-325.70		
	For >1,000, Deduct	-415.65		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0134	EA		100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	2,245.51	151.95
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Bird Spikes, Add	56.55	
			For Fuse, Add	65.65	
			For 0 To 10 Volt Dimming, Add	65.65	
			For 480 Volt, Add	98.48	
			For Multi-Level, Add	142.23	
			For >50 To 100, Deduct	-112.28	
			For >100 To 250, Deduct	-168.41	
			For >250 To 500, Deduct	-273.09	
			For >500 To 1,000, Deduct	-377.77	
			For >1,000, Deduct	-482.45	
26 56 19 00-0135	EA		120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG)	2,547.21	159.18
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For Bird Spikes, Add	57.28	
			For Fuse, Add	65.65	
			For 0 To 10 Volt Dimming, Add	65.65	
			For 480 Volt, Add	98.48	
			For Multi-Level, Add	142.23	
			For >50 To 100, Deduct	-127.36	
			For >100 To 250, Deduct	-191.04	
			For >250 To 500, Deduct	-310.44	
			For >500 To 1,000, Deduct	-429.84	
			For >1,000, Deduct	-549.25	
26 56 19 00-0136			Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™) (26 56 19 00-0128) Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0137	EA		25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™)	612.21	123.00
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For 0 To 10 Volt Dimming, Add	65.65	
			For Multi-Level, Add	65.65	
			For >50 To 100, Deduct	-30.61	
			For >100 To 250, Deduct	-45.92	
			For >250 To 500, Deduct	-70.38	
			For >500 To 1,000, Deduct	-94.84	
			For >1,000, Deduct	-119.30	
26 56 19 00-0138	EA		42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™)	712.13	130.24
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	21.88	
			For 0 To 10 Volt Dimming, Add	65.65	
			For Multi-Level, Add	65.65	
			For >50 To 100, Deduct	-35.61	
			For >100 To 250, Deduct	-53.41	
			For >250 To 500, Deduct	-82.50	
			For >500 To 1,000, Deduct	-111.60	
			For >1,000, Deduct	-140.69	
26 56 19 00-0139			Full Cutoff, LED Wall Packs (McGraw-Edison) (26 56 19 00-0124)		
26 56 19 00-0140	EA		One 7 LED Light Bar, 27 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,339.61	123.00
26 56 19 00-0141	EA		Two 7 LED Light Bars, 54 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,664.60	130.24
26 56 19 00-0142	EA		One 21 LED Light Bar, 27 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,355.60	123.00
26 56 19 00-0143	EA		Two 21 LED Light Bars, 51 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,810.72	130.24
26 56 19 00-0144			Open Face LED Wall Pack (26 56 19 00-0123) Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass		
26 56 19 00-0145	EA		3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS).....	748.59	129.79
			For >50 To 100, Deduct	-37.43	
			For >100 To 250, Deduct	-56.14	
			For >250 To 500, Deduct	-83.84	
			For >500 To 1,000, Deduct	-111.53	
			For >1,000, Deduct	-139.23	
26 56 19 00-0146	EA		5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS).....	767.21	129.79
			For >50 To 100, Deduct	-38.36	
			For >100 To 250, Deduct	-57.54	
			For >250 To 500, Deduct	-86.17	
			For >500 To 1,000, Deduct	-114.79	
			For >1,000, Deduct	-143.42	
26 56 19 00-0147	EA		7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS).....	807.26	129.79
			For >50 To 100, Deduct	-40.36	
			For >100 To 250, Deduct	-60.54	
			For >250 To 500, Deduct	-91.17	
			For >500 To 1,000, Deduct	-121.80	
			For >1,000, Deduct	-152.43	
26 56 19 00-0148	EA		11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS).....	841.72	129.79
			For >50 To 100, Deduct	-42.09	
			For >100 To 250, Deduct	-63.13	
			For >250 To 500, Deduct	-95.48	
			For >500 To 1,000, Deduct	-127.83	
			For >1,000, Deduct	-160.18	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
26 56 19 00-0149	EA	16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	902.91	129.79
		For >50 To 100, Deduct	-45.15	
		For >100 To 250, Deduct	-67.72	
		For >250 To 500, Deduct	-103.13	
		For >500 To 1,000, Deduct	-138.54	
		For >1,000, Deduct	-173.95	
26 56 19 00-0150		Wall Pack Accessories (26 56 19 00-0123)		
26 56 19 00-0151	EA	Photocell For Wall Pack.....	145.35	32.45
26 56 19 00-0152	EA	Wire Guard For Mini And Small Wall Pack	162.17	32.45
26 56 19 00-0153	EA	Wire Guard For Medium And Large Wall Pack	232.51	32.45
26 56 19 00-0154	EA	Clear Polycarbonate Vandal Guard For Wall Packs	334.01	32.45
26 56 19 00-0155	EA	Full Cutoff Visor For Wall Pack	157.58	32.45
26 56 19 00-0156		LED, Pole Mounted (26 56 19)		
26 56 19 00-0157		LED, Pole Mounted (Dialight) (26 56 19 00-0156)		
26 56 19 00-0158	EA	131 Watt, Enclosed And Gasketed, Exterior LED Roadway Fixture (Dialight SL2C4ELGH)	2,067.87	206.94
		For >50 To 100, Deduct	-103.39	
		For >100 To 250, Deduct	-155.09	
		For >250 To 500, Deduct	-248.14	
		For >500 To 1,000, Deduct	-341.18	
		For >1,000, Deduct	-434.23	
26 56 19 00-0159		LED, Pole Mounted (LED-Era) (26 56 19 00-0156)		
26 56 19 00-0160	EA	88 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS5).....	2,570.85	188.13
		For >50 To 100, Deduct	-128.54	
		For >100 To 250, Deduct	-192.81	
		For >250 To 500, Deduct	-311.95	
		For >500 To 1,000, Deduct	-431.09	
		For >1,000, Deduct	-550.22	
26 56 19 00-0161	EA	124 Watt, Enclosed And Gasketed, LED Exterior Roadway Fixture (LED-Era LS7).....	3,060.70	206.94
		For >50 To 100, Deduct	-153.04	
		For >100 To 250, Deduct	-229.55	
		For >250 To 500, Deduct	-372.24	
		For >500 To 1,000, Deduct	-514.93	
		For >1,000, Deduct	-657.62	
26 56 19 00-0162		LED, Pole Mounted (Lighting Science Group) (26 56 19 00-0156)		
26 56 19 00-0163	EA	50 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR1 CW R3 2B)	1,876.18	169.31
		For >50 To 100, Deduct	-93.81	
		For >100 To 250, Deduct	-140.71	
		For >250 To 500, Deduct	-226.06	
		For >500 To 1,000, Deduct	-311.40	
		For >1,000, Deduct	-396.74	
26 56 19 00-0164	EA	75 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR2 CW R3 2B)	1,913.80	188.13
		For >50 To 100, Deduct	-95.69	
		For >100 To 250, Deduct	-143.54	
		For >250 To 500, Deduct	-229.82	
		For >500 To 1,000, Deduct	-316.10	
		For >1,000, Deduct	-402.39	
26 56 19 00-0165	EA	100 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R2 2B)	2,070.94	197.53
		For >50 To 100, Deduct	-103.55	
		For >100 To 250, Deduct	-155.32	
		For >250 To 500, Deduct	-248.99	
		For >500 To 1,000, Deduct	-342.66	
		For >1,000, Deduct	-436.33	
26 56 19 00-0166	EA	100 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR3 CW R3 2B)	2,070.94	197.53
		For >50 To 100, Deduct	-103.55	
		For >100 To 250, Deduct	-155.32	
		For >250 To 500, Deduct	-248.99	
		For >500 To 1,000, Deduct	-342.66	
		For >1,000, Deduct	-436.33	
26 56 19 00-0167	EA	150 Watt, Type II Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R2 2B)	2,108.56	216.34
		For >50 To 100, Deduct	-105.43	
		For >100 To 250, Deduct	-158.14	
		For >250 To 500, Deduct	-252.75	
		For >500 To 1,000, Deduct	-347.36	
		For >1,000, Deduct	-441.98	
26 56 19 00-0168	EA	150 Watt, Type III Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group LSR4 CW R3 2B)	2,108.56	216.34
		For >50 To 100, Deduct	-105.43	
		For >100 To 250, Deduct	-158.14	
		For >250 To 500, Deduct	-252.75	
		For >500 To 1,000, Deduct	-347.36	
		For >1,000, Deduct	-441.98	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0169	EA		86 Watt, Type V Optical Distribution, Enclosed And Gasketed, LED Exterior Roadway Fixture (Lighting Science Group SHB CW CLR).....	2,472.42	188.13
			For >50 To 100, Deduct	-123.62	
			For >100 To 250, Deduct	-185.43	
			For >250 To 500, Deduct	-299.65	
			For >500 To 1,000, Deduct	-413.86	
			For >1,000, Deduct	-528.08	
26 56 19 00-0170			LED, Area Fixtures (26 56 19)		
26 56 19 00-0171			Pole Mount, LED Area Fixtures (26 56 19 00-0170)		
26 56 19 00-0172			Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) (26 56 19 00-0171)		
			Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0173	EA		20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,505.30	123.00
			For >50 To 100, Deduct	-125.27	
			For >100 To 250, Deduct	-187.90	
			For >250 To 500, Deduct	-307.01	
			For >500 To 1,000, Deduct	-426.13	
			For >1,000, Deduct	-545.24	
26 56 19 00-0174	EA		40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED)	2,700.53	130.24
			For >50 To 100, Deduct	-135.03	
			For >100 To 250, Deduct	-202.54	
			For >250 To 500, Deduct	-331.05	
			For >500 To 1,000, Deduct	-459.57	
			For >1,000, Deduct	-588.08	
26 56 19 00-0175	EA		80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,910.21	144.71
			For >50 To 100, Deduct	-145.51	
			For >100 To 250, Deduct	-218.27	
			For >250 To 500, Deduct	-356.54	
			For >500 To 1,000, Deduct	-494.82	
			For >1,000, Deduct	-633.09	
26 56 19 00-0176	EA		100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED)	2,924.68	151.95
			For >50 To 100, Deduct	-146.23	
			For >100 To 250, Deduct	-219.35	
			For >250 To 500, Deduct	-357.99	
			For >500 To 1,000, Deduct	-496.62	
			For >1,000, Deduct	-635.26	
26 56 19 00-0177			Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG) (26 56 19 00-0171)		
			Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0178	EA		40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,396.02	130.24
			For Backlight Shielding, Add	25.98	
			For Type II Medium Optic, Add	44.21	
			For 347-480 Volt, Add	111.02	
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-69.80	
			For >100 To 250, Deduct	-104.70	
			For >250 To 500, Deduct	-167.99	
			For >500 To 1,000, Deduct	-231.28	
			For >1,000, Deduct	-294.57	
26 56 19 00-0179	EA		60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	1,683.24	137.47
			For Backlight Shielding, Add	25.98	
			For Type II Medium Optic, Add	44.94	
			For 347-480 Volt, Add	111.02	
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-84.16	
			For >100 To 250, Deduct	-126.24	
			For >250 To 500, Deduct	-203.53	
			For >500 To 1,000, Deduct	-280.82	
			For >1,000, Deduct	-358.11	
26 56 19 00-0180	EA		80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG)	2,079.93	144.71
			For Backlight Shielding, Add	25.98	
			For Type II Medium Optic, Add	45.66	
			For 347-480 Volt, Add	111.02	
			For Multi-Level Drive Currents, Add	259.76	
			For >50 To 100, Deduct	-104.00	
			For >100 To 250, Deduct	-155.99	
			For >250 To 500, Deduct	-252.76	
			For >500 To 1,000, Deduct	-349.52	
			For >1,000, Deduct	-446.28	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 56 19 00-0181	EA 100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) For Backlight Shielding, Add For Type II Medium Optic, Add For 347-480 Volt, Add For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	2,367.16 25.98 46.38 111.02 259.76 -118.36 -177.54 -288.30 -399.06 -509.82		151.95
26 56 19 00-0182	EA 120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) For Backlight Shielding, Add For Type II Medium Optic, Add For 347-480 Volt, Add For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	2,654.38 25.98 47.11 111.02 259.76 -132.72 -199.08 -323.84 -448.60 -573.36		159.18
26 56 19 00-0183	EA 140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) For Backlight Shielding, Add For Type II Medium Optic, Add For 347-480 Volt, Add For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	3,028.82 25.98 47.83 111.02 259.76 -151.44 -227.16 -370.28 -513.40 -656.52		166.42
26 56 19 00-0184	EA 160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) For Backlight Shielding, Add For Type II Medium Optic, Add For 347-480 Volt, Add For Multi-Level Drive Currents, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	3,316.04 25.98 48.56 111.02 259.76 -165.80 -248.70 -405.82 -562.94 -720.06		173.65
26 56 19 00-0185	Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO) (26 56 19 00-0171) Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.			
26 56 19 00-0186	EA 120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For Bird Spikes, Add For 5,000K Color Temperature, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For 480 Volt, Add For Multi-Level, Add For 1,000mA Driver, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	2,452.99 21.88 50.39 54.71 65.65 65.65 98.48 142.23 183.84 -122.65 -183.97 -298.66 -413.36 -528.05		159.18
26 56 19 00-0187	EA 240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO) For 3 Or 7-Pin NEMA Photocell Receptacle, Add For 5,000K Color Temperature, Add For Fuse, Add For 0 To 10 Volt Dimming, Add For Bird Spikes, Add For Multi-Level, Add For 1,000mA Driver, Add For 480 Volt, Add For >50 To 100, Deduct For >100 To 250, Deduct For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct	4,133.79 21.88 54.71 65.65 65.65 74.70 142.23 183.82 196.94 -206.69 -310.03 -506.96 -703.88 -900.80		195.36
26 56 19 00-0188	Wall Mount, LED Area Fixtures (26 56 19 00-0170)			
26 56 19 00-0189	Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 19 00-0188) Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.			

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0190	EA		20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	1,115.38	123.00
			For>50 To 100, Deduct	-55.77	
			For>100 To 250, Deduct	-83.65	
			For>250 To 500, Deduct	-133.27	
			For>500 To 1,000, Deduct	-182.89	
			For>1,000, Deduct	-232.51	
26 56 19 00-0191	EA		30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED)	1,144.33	137.47
			For>50 To 100, Deduct	-57.22	
			For>100 To 250, Deduct	-85.82	
			For>250 To 500, Deduct	-136.17	
			For>500 To 1,000, Deduct	-186.51	
			For>1,000, Deduct	-236.85	
26 56 19 00-0192			Surface Mount, LED Parking Structure Fixtures (26 56 19 00-0170)		
26 56 19 00-0193			Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 19 00-0192)		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0194	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,232.74	130.24
			For Multi-Level Drive Currents, Add	259.76	
			For>50 To 100, Deduct	-61.64	
			For>100 To 250, Deduct	-92.46	
			For>250 To 500, Deduct	-147.58	
			For>500 To 1,000, Deduct	-202.71	
			For>1,000, Deduct	-257.83	
26 56 19 00-0195	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,519.96	137.47
			For Multi-Level Drive Currents, Add	259.76	
			For>50 To 100, Deduct	-76.00	
			For>100 To 250, Deduct	-114.00	
			For>250 To 500, Deduct	-183.12	
			For>500 To 1,000, Deduct	-252.25	
			For>1,000, Deduct	-321.37	
26 56 19 00-0196	EA		80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,807.18	144.71
			For Multi-Level Drive Currents, Add	259.76	
			For>50 To 100, Deduct	-90.36	
			For>100 To 250, Deduct	-135.54	
			For>250 To 500, Deduct	-218.66	
			For>500 To 1,000, Deduct	-301.79	
			For>1,000, Deduct	-384.91	
26 56 19 00-0197	EA		100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	2,094.40	151.95
			For Multi-Level Drive Currents, Add	259.76	
			For>50 To 100, Deduct	-104.72	
			For>100 To 250, Deduct	-157.08	
			For>250 To 500, Deduct	-254.20	
			For>500 To 1,000, Deduct	-351.33	
			For>1,000, Deduct	-448.45	
26 56 19 00-0198			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304) (26 56 19 00-0192)		
			Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0199	EA		40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,188.21	130.24
			For Multi-Level Drive Currents, Add	259.76	
			For>50 To 100, Deduct	-59.41	
			For>100 To 250, Deduct	-89.12	
			For>250 To 500, Deduct	-142.01	
			For>500 To 1,000, Deduct	-194.91	
			For>1,000, Deduct	-247.81	
26 56 19 00-0200	EA		60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,312.15	137.47
			For Multi-Level Drive Currents, Add	259.76	
			For>50 To 100, Deduct	-65.61	
			For>100 To 250, Deduct	-98.41	
			For>250 To 500, Deduct	-157.15	
			For>500 To 1,000, Deduct	-215.88	
			For>1,000, Deduct	-274.61	
26 56 19 00-0201			Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG) (26 56 19 00-0192)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 56 19 00-0202	EA 3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADM5MA40KUL).....	1,041.22		130.24
	For >50 To 100, Deduct	-52.06		
	For >100 To 250, Deduct	-78.09		
	For >250 To 500, Deduct	-123.64		
	For >500 To 1,000, Deduct	-169.19		
	For >1,000, Deduct	-214.74		
26 56 19 00-0203	Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG) (26 56 19 00-0192)			
	Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.			
26 56 19 00-0204	EA 70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,065.57		137.47
	For >50 To 100, Deduct	-103.28		
	For >100 To 250, Deduct	-154.92		
	For >250 To 500, Deduct	-251.32		
	For >500 To 1,000, Deduct	-347.73		
	For >1,000, Deduct	-444.13		
26 56 19 00-0205	EA 110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,094.51		151.95
	For >50 To 100, Deduct	-104.73		
	For >100 To 250, Deduct	-157.09		
	For >250 To 500, Deduct	-254.22		
	For >500 To 1,000, Deduct	-351.34		
	For >1,000, Deduct	-448.47		
26 56 19 00-0206	Surface Mount, LED Canopy Fixtures (26 56 19 00-0170)			
26 56 19 00-0207	Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG) (26 56 19 00-0206)			
	Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.			
26 56 19 00-0208	EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,429.42		130.24
	For Multi-Level Drive Currents, Add	259.76		
	For >50 To 100, Deduct	-71.47		
	For >100 To 250, Deduct	-107.21		
	For >250 To 500, Deduct	-172.17		
	For >500 To 1,000, Deduct	-237.12		
	For >1,000, Deduct	-302.08		
26 56 19 00-0209	EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	1,716.64		137.47
	For Multi-Level Drive Currents, Add	259.76		
	For >50 To 100, Deduct	-85.83		
	For >100 To 250, Deduct	-128.75		
	For >250 To 500, Deduct	-207.71		
	For >500 To 1,000, Deduct	-286.66		
	For >1,000, Deduct	-365.62		
26 56 19 00-0210	EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG)	2,003.86		144.71
	For Multi-Level Drive Currents, Add	259.76		
	For >50 To 100, Deduct	-100.19		
	For >100 To 250, Deduct	-150.29		
	For >250 To 500, Deduct	-243.25		
	For >500 To 1,000, Deduct	-336.20		
	For >1,000, Deduct	-429.16		
26 56 19 00-0211	EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,291.08		151.95
	For Multi-Level Drive Currents, Add	259.76		
	For >50 To 100, Deduct	-114.55		
	For >100 To 250, Deduct	-171.83		
	For >250 To 500, Deduct	-278.79		
	For >500 To 1,000, Deduct	-385.74		
	For >1,000, Deduct	-492.70		
26 56 19 00-0212	EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,578.30		159.18
	For Multi-Level Drive Currents, Add	259.76		
	For >50 To 100, Deduct	-128.92		
	For >100 To 250, Deduct	-193.37		
	For >250 To 500, Deduct	-314.33		
	For >500 To 1,000, Deduct	-435.28		
	For >1,000, Deduct	-556.24		
26 56 19 00-0213	EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,975.01		166.42
	For Multi-Level Drive Currents, Add	259.76		
	For >50 To 100, Deduct	-148.75		
	For >100 To 250, Deduct	-223.13		
	For >250 To 500, Deduct	-363.56		
	For >500 To 1,000, Deduct	-503.98		
	For >1,000, Deduct	-644.41		
26 56 19 00-0214	EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,262.23		173.65
	For Multi-Level Drive Currents, Add	259.76		
	For >50 To 100, Deduct	-163.11		
	For >100 To 250, Deduct	-244.67		
	For >250 To 500, Deduct	-399.10		
	For >500 To 1,000, Deduct	-553.52		
	For >1,000, Deduct	-707.95		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0215	EA		200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,836.66	188.13
			<i>For Multi-Level Drive Currents, Add</i>	259.76	
			<i>For >50 To 100, Deduct</i>	-191.83	
			<i>For >100 To 250, Deduct</i>	-287.75	
			<i>For >250 To 500, Deduct</i>	-470.18	
			<i>For >500 To 1,000, Deduct</i>	-652.60	
			<i>For >1,000, Deduct</i>	-835.03	
26 56 19 00-0216	EA		240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	4,396.64	195.36
			<i>For Multi-Level Drive Currents, Add</i>	259.76	
			<i>For >50 To 100, Deduct</i>	-219.83	
			<i>For >100 To 250, Deduct</i>	-329.75	
			<i>For >250 To 500, Deduct</i>	-539.81	
			<i>For >500 To 1,000, Deduct</i>	-749.88	
			<i>For >1,000, Deduct</i>	-959.94	
26 56 19 00-0217			Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250) (26 56 19 00-0208)		
			Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0218	EA		8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250)	988.93	144.71
			<i>For >50 To 100, Deduct</i>	-49.45	
			<i>For >100 To 250, Deduct</i>	-74.17	
			<i>For >250 To 500, Deduct</i>	-116.38	
			<i>For >500 To 1,000, Deduct</i>	-158.59	
			<i>For >1,000, Deduct</i>	-200.80	
26 56 19 00-0219			Recessed Mount, LED Soffit Fixtures (26 56 19 00-0170)		
26 56 19 00-0220			Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304) (26 56 19 00-0219)		
			Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0221	EA		40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,210.47	130.24
			<i>For >50 To 100, Deduct</i>	-60.52	
			<i>For >100 To 250, Deduct</i>	-90.79	
			<i>For >250 To 500, Deduct</i>	-144.80	
			<i>For >500 To 1,000, Deduct</i>	-198.81	
			<i>For >1,000, Deduct</i>	-252.82	
26 56 19 00-0222	EA		60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,334.41	137.47
			<i>For >50 To 100, Deduct</i>	-66.72	
			<i>For >100 To 250, Deduct</i>	-100.08	
			<i>For >250 To 500, Deduct</i>	-159.93	
			<i>For >500 To 1,000, Deduct</i>	-219.77	
			<i>For >1,000, Deduct</i>	-279.62	
26 56 19 00-0223			Surface Mount, LED Area Fixtures (26 56 19 00-0170)		
26 56 19 00-0224			Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) (26 56 19 00-0223)		
			Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0225	EA		50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	681.95	130.24
			<i>For >50 To 100, Deduct</i>	-34.10	
			<i>For >100 To 250, Deduct</i>	-51.15	
			<i>For >250 To 500, Deduct</i>	-78.73	
			<i>For >500 To 1,000, Deduct</i>	-106.32	
			<i>For >1,000, Deduct</i>	-133.90	
26 56 19 00-0226	EA		50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,506.22	130.24
			<i>For >50 To 100, Deduct</i>	-75.31	
			<i>For >100 To 250, Deduct</i>	-112.97	
			<i>For >250 To 500, Deduct</i>	-181.77	
			<i>For >500 To 1,000, Deduct</i>	-250.56	
			<i>For >1,000, Deduct</i>	-319.36	
26 56 19 00-0227	EA		68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,253.36	144.71
			<i>For >50 To 100, Deduct</i>	-62.67	
			<i>For >100 To 250, Deduct</i>	-94.00	
			<i>For >250 To 500, Deduct</i>	-149.43	
			<i>For >500 To 1,000, Deduct</i>	-204.87	
			<i>For >1,000, Deduct</i>	-260.30	
26 56 19 00-0228	EA		68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG)	1,550.81	144.71
			<i>For >50 To 100, Deduct</i>	-77.54	
			<i>For >100 To 250, Deduct</i>	-116.31	
			<i>For >250 To 500, Deduct</i>	-186.62	
			<i>For >500 To 1,000, Deduct</i>	-256.92	
			<i>For >1,000, Deduct</i>	-327.23	
26 56 19 00-0229			Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) (26 56 19 00-0223)		
			Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0230	EA		13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	220.03	46.72
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-11.00	
			For >100 To 250, Deduct	-16.50	
			For >250 To 500, Deduct	-25.56	
			For >500 To 1,000, Deduct	-34.61	
			For >1,000, Deduct	-43.67	
26 56 19 00-0231	EA		20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	250.19	46.72
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-12.51	
			For >100 To 250, Deduct	-18.76	
			For >250 To 500, Deduct	-29.33	
			For >500 To 1,000, Deduct	-39.89	
			For >1,000, Deduct	-50.45	
26 56 19 00-0232	EA		30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	307.63	46.72
			For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
			For >50 To 100, Deduct	-15.38	
			For >100 To 250, Deduct	-23.07	
			For >250 To 500, Deduct	-36.51	
			For >500 To 1,000, Deduct	-49.94	
			For >1,000, Deduct	-63.38	
26 56 19 00-0233			Surface Mount, LED Facade Fixtures (26 56 19 00-0170)		
26 56 19 00-0234			Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) (26 56 19 00-0233)		
26 56 19 00-0235	EA		12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	785.06	54.55
			For >50 To 100, Deduct	-39.25	
			For >100 To 250, Deduct	-58.88	
			For >250 To 500, Deduct	-96.06	
			For >500 To 1,000, Deduct	-133.23	
			For >1,000, Deduct	-170.41	
26 56 19 00-0236	EA		24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,279.50	49.82
			For >50 To 100, Deduct	-63.98	
			For >100 To 250, Deduct	-95.96	
			For >250 To 500, Deduct	-158.16	
			For >500 To 1,000, Deduct	-220.35	
			For >1,000, Deduct	-282.55	
26 56 19 00-0237	EA		36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,634.20	41.51
			For >50 To 100, Deduct	-81.71	
			For >100 To 250, Deduct	-122.57	
			For >250 To 500, Deduct	-202.79	
			For >500 To 1,000, Deduct	-283.02	
			For >1,000, Deduct	-363.25	
26 56 19 00-0238	EA		48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,988.87	33.21
			For >50 To 100, Deduct	-99.44	
			For >100 To 250, Deduct	-149.17	
			For >250 To 500, Deduct	-247.42	
			For >500 To 1,000, Deduct	-345.68	
			For >1,000, Deduct	-443.94	
26 56 19 00-0239			Post Top, LED Area Fixtures (26 56 19 00-0170)		
26 56 19 00-0240			Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) (26 56 19 00-0239)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0241	EA		1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	2,199.59	198.98
			For >50 To 100, Deduct	-109.98	
			For >100 To 250, Deduct	-164.97	
			For >250 To 500, Deduct	-265.00	
			For >500 To 1,000, Deduct	-365.03	
			For >1,000, Deduct	-465.06	
26 56 19 00-0242	EA		3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	2,429.47	198.98
			For >50 To 100, Deduct	-121.47	
			For >100 To 250, Deduct	-182.21	
			For >250 To 500, Deduct	-293.74	
			For >500 To 1,000, Deduct	-405.26	
			For >1,000, Deduct	-516.78	
26 56 19 00-0243	EA		77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3).....	2,611.18	198.98
			For >50 To 100, Deduct	-130.56	
			For >100 To 250, Deduct	-195.84	
			For >250 To 500, Deduct	-316.45	
			For >500 To 1,000, Deduct	-437.06	
			For >1,000, Deduct	-557.67	
26 56 19 00-0244			Post Top, LED Area Fixtures (General Electric EPAS) (26 56 19 00-0239)		
			Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0245	EA		3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3).....	2,593.78	198.98
			For >50 To 100, Deduct	-129.69	
			For >100 To 250, Deduct	-194.53	
			For >250 To 500, Deduct	-314.27	
			For >500 To 1,000, Deduct	-434.01	
			For >1,000, Deduct	-553.75	
26 56 19 00-0246	EA		6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,652.84	198.98
			For >50 To 100, Deduct	-132.64	
			For >100 To 250, Deduct	-198.96	
			For >250 To 500, Deduct	-321.66	
			For >500 To 1,000, Deduct	-444.35	
			For >1,000, Deduct	-567.04	
26 56 19 00-0247			Post Top, LED Area Fixtures (General Electric EPTC) (26 56 19 00-0239) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, gray or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0248	EA		3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3).....	1,794.14	198.98
			For >50 To 100, Deduct	-89.71	
			For >100 To 250, Deduct	-134.56	
			For >250 To 500, Deduct	-214.32	
			For >500 To 1,000, Deduct	-294.08	
			For >1,000, Deduct	-373.84	
26 56 19 00-0249	EA		6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,882.53	198.98
			For >50 To 100, Deduct	-94.13	
			For >100 To 250, Deduct	-141.19	
			For >250 To 500, Deduct	-225.37	
			For >500 To 1,000, Deduct	-309.55	
			For >1,000, Deduct	-393.72	
26 56 19 00-0250			Post Top, LED Area Fixtures (General Electric EPST) (26 56 19 00-0239) Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0251	EA		3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3).....	1,392.36	198.98
			For >50 To 100, Deduct	-69.62	
			For >100 To 250, Deduct	-104.43	
			For >250 To 500, Deduct	-164.10	
			For >500 To 1,000, Deduct	-223.77	
			For >1,000, Deduct	-283.43	
26 56 19 00-0252	EA		6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3).....	1,480.75	198.98
			For >50 To 100, Deduct	-74.04	
			For >100 To 250, Deduct	-111.06	
			For >250 To 500, Deduct	-175.15	
			For >500 To 1,000, Deduct	-239.23	
			For >1,000, Deduct	-303.32	
26 56 19 00-0253			Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) (26 56 19 00-0239) Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		
26 56 19 00-0254	EA		13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR).....	3,225.66	198.98
			For >50 To 100, Deduct	-161.28	
			For >100 To 250, Deduct	-241.92	
			For >250 To 500, Deduct	-393.26	
			For >500 To 1,000, Deduct	-544.59	
			For >1,000, Deduct	-695.93	
26 56 19 00-0255			LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) (26 56 19 00-0239) Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts.		
26 56 19 00-0256	EA		LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAAH53).....	894.92	108.53
			For 0 To 10 Volt Dimming, Add	65.65	
			For >50 To 100, Deduct	-44.75	
			For >100 To 250, Deduct	-67.12	
			For >250 To 500, Deduct	-106.44	
			For >500 To 1,000, Deduct	-145.76	
			For >1,000, Deduct	-185.08	
26 56 19 00-0257			LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) (26 56 19 00-0239) Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts.		



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
26 56 19 00-0258	EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT).....	561.36		23.16
	For Backlight Control Shield, Add	43.69		
	For >50 To 100, Deduct	-28.07		
	For >100 To 250, Deduct	-42.10		
	For >250 To 500, Deduct	-67.85		
	For >500 To 1,000, Deduct	-93.61		
	For >1,000, Deduct	-119.36		
26 56 19 00-0259	Surface Mount, LED Strip Fixtures (Sylvania) (26 56 19 00-0170)			
26 56 19 00-0260	EA 4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania			
	VAPOR1B/040UNVD840/48EC/GR/D)	542.46		43.40
	For >50 To 100, Deduct	-27.12		
	For >100 To 250, Deduct	-40.68		
	For >250 To 500, Deduct	-66.18		
	For >500 To 1,000, Deduct	-91.67		
	For >1,000, Deduct	-117.16		
26 56 21	HID Exterior Lighting (26 56)			
26 56 21 00-0001	High Mast Fixtures (26 56 21)			
26 56 21 00-0002	Metal Halide, High Mast Fixtures (26 56 21 00-0001)			
26 56 21 00-0003	EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,021.15		178.78
26 56 21 00-0004	EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,159.83		178.78
26 56 21 00-0005	EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,141.96		204.25
26 56 21 00-0006	EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,225.17		204.25
26 56 21 00-0007	EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,251.66		255.31
26 56 21 00-0008	EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,334.87		255.31
26 56 21 00-0009	High Pressure Sodium, High Mast Fixtures (26 56 21 00-0001)			
26 56 21 00-0010	EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux.....	2,087.96		178.78
26 56 21 00-0011	EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,171.17		178.78
26 56 21 00-0012	EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,526.47		189.00
26 56 21 00-0013	EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,588.49		204.25
26 56 21 00-0014	EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,739.79		255.31
26 56 21 00-0015	HID, Pole Mounted (26 56 21)			
26 56 21 00-0016	Metal Halide, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0017	EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	760.64		291.53
26 56 21 00-0018	EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	857.19		316.44
26 56 21 00-0019	EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,001.13		340.42
26 56 21 00-0020	EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,266.31		398.96
26 56 21 00-0021	High Pressure Sodium, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0022	EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	866.77		340.42
26 56 21 00-0023	EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	892.67		340.42
26 56 21 00-0024	EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	933.92		340.42
26 56 21 00-0025	EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,043.03		340.42
26 56 21 00-0026	EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,204.05		340.42
26 56 21 00-0027	EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,213.65		340.42
26 56 21 00-0028	Low Pressure Sodium, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0029	EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	771.72		185.18
26 56 21 00-0030	EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	828.38		272.33
26 56 21 00-0031	EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	977.68		272.33
26 56 21 00-0032	Metal Halide, Area Fixtures (26 56 21)			
26 56 21 00-0033	Metal Halide, Pole Mount, Area Fixtures (26 56 21 00-0032)			
	Note: Includes pulse start ballast.			
26 56 21 00-0034	EA 150 Watt, Metal Halide Area Fixture, Pole Mount.....	1,192.91		180.08
26 56 21 00-0035	EA 175 Watt, Metal Halide Area Fixture, Pole Mount.....	1,309.06		198.09
26 56 21 00-0036	EA 250 Watt, Metal Halide Area Fixture, Pole Mount.....	1,447.86		216.10
26 56 21 00-0037	EA 400 Watt, Metal Halide Area Fixture, Pole Mount.....	1,530.07		252.12
26 56 21 00-0038	High Pressure Sodium, Area Fixtures (26 56 21)			
26 56 21 00-0039	Pole Mount, High Pressure Sodium Area Fixtures (26 56 21 00-0038)			
26 56 21 00-0040	EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	991.32		144.07
26 56 21 00-0041	EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	1,077.69		180.08
26 56 21 00-0042	EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	1,167.89		216.10
26 56 21 00-0043	EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount.....	1,230.05		252.12



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 56 21 00-0044	Surface Mounted, Rectangular Exterior Area Fixture (26 56 21)		
26 56 21 00-0045	Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture (26 56 21 00-0044)		
26 56 21 00-0046	EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	713.93	272.33
26 56 21 00-0047	EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	814.31	306.37
26 56 21 00-0048	EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	977.32	340.42
26 56 21 00-0049	EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,244.17	398.96
26 56 21 00-0050	High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture (26 56 21 00-0044)		
26 56 21 00-0051	EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	687.87	232.84
26 56 21 00-0052	EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	747.72	247.82
26 56 21 00-0053	EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	806.23	261.44
26 56 21 00-0054	EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	833.10	272.33
26 56 21 00-0055	EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	925.51	306.37
26 56 21 00-0056	EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	998.55	340.42
26 56 21 00-0057	EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture	1,371.56	398.96
26 56 21 00-0058	Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21)		
26 56 21 00-0059	High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21 00-0058)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.			
26 56 21 00-0060	EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	848.88	183.82
26 56 21 00-0061	EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	879.93	204.25
26 56 21 00-0062	EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	939.81	232.84
26 56 21 00-0063	EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	965.42	247.82
26 56 21 00-0064	EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	991.93	261.44
26 56 21 00-0065	EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,039.39	272.33
26 56 21 00-0066	EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,139.29	306.37
26 56 21 00-0067	EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,385.35	340.42
26 56 21 00-0068	Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures (26 56 21 00-0058)		
Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.			
26 56 21 00-0069	EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	934.39	204.25
26 56 21 00-0070	EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	985.99	232.84
26 56 21 00-0071	EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,019.34	247.82
26 56 21 00-0072	EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,062.43	261.44
26 56 21 00-0073	EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,085.64	272.33
26 56 21 00-0074	EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,187.91	306.37
26 56 21 00-0075	EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture	1,514.56	340.42
26 56 21 00-0076	Wall Packs (26 56 21)		
26 56 21 00-0077	Non-Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)		
Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.			
26 56 21 00-0078	EA 13 Watt Compact Fluorescent, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	383.79	64.89
26 56 21 00-0079	EA 50 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	411.57	64.89
26 56 21 00-0080	EA 35 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	411.57	64.89
26 56 21 00-0081	EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack	546.27	64.89
26 56 21 00-0082	Semi-Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.			
26 56 21 00-0083	EA 42 Watt Compact Fluorescent, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack.....	763.69	64.89
26 56 21 00-0084	EA 50 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack.....	773.69	64.89
26 56 21 00-0085	EA 70 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack.....	782.33	64.89
26 56 21 00-0086	EA 100 Watt Metal Halide, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack.....	766.57	64.89
26 56 21 00-0087	EA 70 Watt High Pressure Sodium, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack.....	701.74	64.89
26 56 21 00-0088	EA 100 Watt High Pressure Sodium, Semi-Cutoff, Polycarbonate Lens, Mini Wall Pack.....	666.14	64.89
26 56 21 00-0089	Cutoff, Polycarbonate Lens, Mini Wall Packs (26 56 21 00-0076)		
Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.			
26 56 21 00-0090	EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	804.70	64.89
26 56 21 00-0091	EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	813.81	64.89
26 56 21 00-0092	EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack	798.07	64.89
26 56 21 00-0093	EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	810.75	64.89
26 56 21 00-0094	EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack	810.75	64.89



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0095	Non-Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.			
26 56 21 00-0096	EA	70 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	764.87	86.44
26 56 21 00-0097	EA	100 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	764.87	86.44
26 56 21 00-0098	EA	175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	716.08	86.44
26 56 21 00-0099	EA	70 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	734.78	86.44
26 56 21 00-0100	EA	100 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	734.78	86.44
26 56 21 00-0101	EA	150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack	680.69	86.44
26 56 21 00-0102	Cutoff, Borosilicate Glass Lens, Small Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.			
26 56 21 00-0103	EA	70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.77	86.44
26 56 21 00-0104	EA	100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.77	86.44
26 56 21 00-0105	EA	175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack	793.77	86.44
26 56 21 00-0106	EA	70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	765.08	86.44
26 56 21 00-0107	EA	100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	765.08	86.44
26 56 21 00-0108	EA	150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack	765.08	86.44
26 56 21 00-0109	Full Cutoff, Tempered Glass Lens, Small Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.			
26 56 21 00-0110	EA	175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack	1,027.28	86.44
26 56 21 00-0111	Cutoff, Borosilicate Glass Lens, Medium Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. Lithonia TWR2.			
26 56 21 00-0112	EA	250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	963.99	107.08
Note: 9-1/4" x 17-7/8" x 9-3/8".				
26 56 21 00-0113	EA	400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,030.13	107.08
Note: 9-1/4" x 17-7/8" x 12-1/2".				
26 56 21 00-0114	EA	250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,108.98	107.08
Note: 9-1/4" x 17-7/8" x 9-3/8".				
26 56 21 00-0115	EA	400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack	1,130.68	107.08
Note: 9-1/4" x 17-7/8" x 12-1/2".				
26 56 21 00-0116	Cutoff, Tempered Glass Lens, Medium Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.			
26 56 21 00-0117	EA	250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,049.06	107.08
26 56 21 00-0118	EA	400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack	1,123.37	107.08
26 56 21 00-0119	Non-Cutoff, Polycarbonate Lens, Large Wall Packs (26 56 21 00-0076) Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.			
26 56 21 00-0120	EA	100 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	966.53	129.79
26 56 21 00-0121	EA	175 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	887.82	129.79
26 56 21 00-0122	EA	70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	948.31	129.79
26 56 21 00-0123	EA	100 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	954.34	129.79
26 56 21 00-0124	EA	150 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack	960.65	129.79
26 56 21 00-0125	Non-Cutoff, Borosilicate Glass Lens, Large Wall Packs (26 56 21 00-0076) Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.			
26 56 21 00-0126	EA	175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	966.55	129.79
26 56 21 00-0127	EA	250 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	992.81	129.79
26 56 21 00-0128	EA	400 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,071.52	129.79
26 56 21 00-0129	EA	150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,019.05	129.79
26 56 21 00-0130	EA	250 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,045.32	129.79
26 56 21 00-0131	EA	400 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack	1,097.74	129.79
26 56 21 00-0132	Semi-Cutoff, Induction Wall Packs (26 56 21 00-0076)			
26 56 21 00-0133	Semi-Cutoff, Induction Wall Packs (Everlast®) (26 56 21 00-0132) Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.			
26 56 21 00-0134	EA	70 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70)	1,251.47	123.00
26 56 21 00-0135	EA	80 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80)	1,277.15	130.24
26 56 21 00-0136	EA	100 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100)	1,302.82	137.47
26 56 21 00-0137	EA	120 Watt, Wall Mount, Semi-Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120)	1,451.73	144.71
26 56 21 00-0138	Induction, Roadway Lighting (26 56 21)			
26 56 21 00-0139	Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0138) Note: Includes gray powder coat finish heavy-duty die cast aluminum body and flat glass lens.			
26 56 21 00-0140	EA	40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	696.44	217.07
26 56 21 00-0141	EA	70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	762.35	224.30
26 56 21 00-0142	EA	100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	791.30	238.77
26 56 21 00-0143	EA	150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	820.24	253.24
26 56 21 00-0144	EA	200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	953.01	260.48

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0145 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	971.59	267.71
26 56 21 00-0146 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	653.24	217.07
26 56 21 00-0147 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	725.32	224.30
26 56 21 00-0148 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	754.27	238.77
26 56 21 00-0149 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	783.21	253.24
26 56 21 00-0150 Induction, Area Fixtures (26 56 21)		
26 56 21 00-0151 Post Top, Induction Area Fixtures (26 56 21 00-0150)		
26 56 21 00-0152 Post Top, Induction Area Fixtures (US Lighting Tech) (26 56 21 00-0151)		
Note: Includes black powder coat finish heavy-duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 21 00-0153 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	769.31	198.98
26 56 21 00-0154 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	828.97	198.98
26 56 21 00-0155 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	828.97	198.98
26 56 21 00-0156 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571)	828.97	198.98
26 56 21 00-0157 Surface Mount, Induction Parking Structure Fixtures (26 56 21 00-0150)		
26 56 21 00-0158 Surface Mount, Induction Parking Structure Fixtures (Everlast®) (26 56 21 00-0157)		
26 56 21 00-0159 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	698.93	180.89
26 56 21 00-0160 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	741.15	184.51
26 56 21 00-0161 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	752.48	188.13
26 56 21 00-0162 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	763.84	191.74
26 56 21 00-0163 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	775.18	195.36
26 56 21 00-0164 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	790.65	198.98
26 56 21 00-0165 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	812.15	188.13
26 56 21 00-0166 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	823.50	191.74
26 56 21 00-0167 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	834.85	195.36
26 56 21 00-0168 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC)	867.80	198.98
26 56 21 00-0169 Pole Mount, Induction Area Fixtures (26 56 21 00-0150)		
26 56 21 00-0170 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) (26 56 21 00-0169)		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0171 EA 70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70)	1,307.48	123.00
26 56 21 00-0172 EA 80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80)	1,344.37	130.24
26 56 21 00-0173 EA 100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100)	1,381.24	137.47

END OF SECTION 26



Communications			27
Common Work Results for Communications			27 05
Grounding and Bonding for Communications Systems			27 05 26

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 05 Common Work Results for Communications ⁽²⁷⁾

27 05 26 Grounding and Bonding for Communications Systems ^(27 05)

See CSI section 26 05 26 00-0000 for grounding.

27 05 26 00-0001	EA	25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	1,088.83	132.95
Note: Excludes terminations.				
27 05 26 00-0002	EA	50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	1,392.71	177.31
Note: Excludes terminations.				
27 05 26 00-0003	EA	100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	2,205.12	265.90
Note: Excludes terminations.				
27 05 26 00-0004	EA	Lucent 3B1-EW, Gas Tube Protector Unit.....	13.16	1.95
27 05 26 00-0005	EA	44 Terminal Copper Ground Bus Bar (Siemens ECGK).....	86.91	35.12
27 05 26 00-0006	EA	2" x 1/4" x 12", G Pattern, Grounding Bus Bar.....	193.75	35.12
27 05 26 00-0007	EA	2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar.....	208.67	35.12
27 05 26 00-0008	EA	4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar.....	394.86	35.12
27 05 26 00-0009	EA	#6 AWG, Cable Runway Ground Strap.....	78.61	6.50
27 05 26 00-0010	EA	1/4" Screw Size, #6 AWG Compression Lug.....	27.59	6.50
27 05 26 00-0011	EA	3/8" Screw Size, #6 AWG Compression Lug.....	29.38	6.50
27 05 26 00-0012	EA	Two Mounting Hole, Ground Terminal Block.....	32.71	6.50

27 05 29 Hangers and Supports for Communications Systems ^(27 05)

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001 Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29)

27 05 29 00-0002 Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 05 29 00-0003	EA	3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	10.13	3.25
For >50 To 100, Deduct			-0.42	
For >100 To 250, Deduct			-0.83	
For >250 To 500, Deduct			-1.57	
For >500, Deduct			-2.31	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.73	
For Work In Restricted Working Space, Add			1.95	
For Painted Powder Coated Finish, Add			0.74	
27 05 29 00-0004	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	10.69	3.25
For >50 To 100, Deduct			-0.43	
For >100 To 250, Deduct			-0.86	
For >250 To 500, Deduct			-1.61	
For >500, Deduct			-2.37	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.73	
For Work In Restricted Working Space, Add			1.95	
For Painted Powder Coated Finish, Add			2.58	
For Low Friction Xylan® Coated Finish, Add			9.20	
27 05 29 00-0005	EA	2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	11.56	3.25
For >50 To 100, Deduct			-0.45	
For >100 To 250, Deduct			-0.90	
For >250 To 500, Deduct			-1.68	
For >500, Deduct			-2.46	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.73	
For Work In Restricted Working Space, Add			1.95	
For Painted Powder Coated Finish, Add			3.17	
For Low Friction Xylan® Coated Finish, Add			11.44	
27 05 29 00-0006	EA	4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	19.09	3.25
For >50 To 100, Deduct			-0.64	
For >100 To 250, Deduct			-1.28	
For >250 To 500, Deduct			-2.24	
For >500, Deduct			-3.21	
For Installation On Concrete (Includes Drilling And Fastener), Add			1.73	
For Work In Restricted Working Space, Add			1.95	
For Painted Powder Coated Finish, Add			1.69	
For Low Friction Xylan® Coated Finish, Add			10.14	

27 05 29 00-0007 Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) ^(27 05 29 00-0001)

Note: Includes screw.

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0008 EA 3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB)	11.45	3.25
For >50 To 100, Deduct	-0.45	
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.45	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.73	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0009 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB)	14.84	3.25
For >50 To 100, Deduct	-0.53	
For >100 To 250, Deduct	-1.07	
For >250 To 500, Deduct	-1.93	
For >500, Deduct	-2.78	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.73	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0010 EA 2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB)	16.49	3.25
For >50 To 100, Deduct	-0.57	
For >100 To 250, Deduct	-1.15	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-2.95	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.73	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0011 EA 4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB)	22.39	3.25
For >50 To 100, Deduct	-0.72	
For >100 To 250, Deduct	-1.44	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-3.54	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.73	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0012 Strut Attachment, Communications And Low Voltage Cable Hooks (J- Hooks) (27 05 29 00-0001) Note: Excludes strut.		
27 05 29 00-0013 EA 3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH12-SC4)	12.08	3.25
For >50 To 100, Deduct	-0.46	
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.72	
For >500, Deduct	-2.51	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0014 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH21-SC4)	14.34	3.25
For >50 To 100, Deduct	-0.52	
For >100 To 250, Deduct	-1.04	
For >250 To 500, Deduct	-1.89	
For >500, Deduct	-2.73	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0015 EA 2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4)	15.51	3.25
For >50 To 100, Deduct	-0.55	
For >100 To 250, Deduct	-1.10	
For >250 To 500, Deduct	-1.98	
For >500, Deduct	-2.85	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0016 EA 4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4)	21.09	3.25
For >50 To 100, Deduct	-0.69	
For >100 To 250, Deduct	-1.38	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-3.41	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0017 T-Bar Attachment, Communications And Low Voltage Cable Hooks (J- Hooks) (27 05 29 00-0001) Note: Excludes T-Bar.		
27 05 29 00-0018 EA 3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH12-A28)	14.55	3.25
For >50 To 100, Deduct	-0.53	
For >100 To 250, Deduct	-1.05	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.76	
For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0019 EA 1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J- Hook) (Cooper B-line BCH21-A28)	18.37	3.25
For >50 To 100, Deduct	-0.62	
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-2.19	
For >500, Deduct	-3.14	
For Work In Restricted Working Space, Add	1.95	



Communications			27
Common Work Results for Communications			27 05
Hangers and Supports for Communications Systems			27 05 29

27

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
27 05 29 00-0020	EA	2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28)	19.37	3.25
		For >50 To 100, Deduct	-0.65	
		For >100 To 250, Deduct	-1.29	
		For >250 To 500, Deduct	-2.27	
		For >500, Deduct	-3.24	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0021		Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes threaded rod. See CSI section 26 05 29 00-0403 for threaded rod.		
27 05 29 00-0022	EA	3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	11.78	3.25
		For >50 To 100, Deduct	-0.46	
		For >100 To 250, Deduct	-0.91	
		For >250 To 500, Deduct	-1.70	
		For >500, Deduct	-2.48	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0023	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6)	12.30	3.25
		For >50 To 100, Deduct	-0.47	
		For >100 To 250, Deduct	-0.94	
		For >250 To 500, Deduct	-1.74	
		For >500, Deduct	-2.53	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0024	EA	2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	14.94	3.25
		For >50 To 100, Deduct	-0.54	
		For >100 To 250, Deduct	-1.07	
		For >250 To 500, Deduct	-1.93	
		For >500, Deduct	-2.79	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0025		Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001) Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0403 for threaded rod, nuts and washers.		
27 05 29 00-0026	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	14.64	3.25
		For >50 To 100, Deduct	-0.53	
		For >100 To 250, Deduct	-1.06	
		For >250 To 500, Deduct	-1.91	
		For >500, Deduct	-2.76	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0027	EA	2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB).....	15.88	3.25
		For >50 To 100, Deduct	-0.56	
		For >100 To 250, Deduct	-1.12	
		For >250 To 500, Deduct	-2.00	
		For >500, Deduct	-2.89	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0028	EA	4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	22.04	3.25
		For >50 To 100, Deduct	-0.71	
		For >100 To 250, Deduct	-1.43	
		For >250 To 500, Deduct	-2.47	
		For >500, Deduct	-3.50	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0029		Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)		
27 05 29 00-0030	EA	3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	14.47	3.25
		For >50 To 100, Deduct	-0.52	
		For >100 To 250, Deduct	-1.05	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.75	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0031	EA	1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	16.68	3.25
		For >50 To 100, Deduct	-0.58	
		For >100 To 250, Deduct	-1.16	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.97	
		For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0032	EA	2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	17.85	3.25
		For >50 To 100, Deduct	-0.61	
		For >100 To 250, Deduct	-1.22	
		For >250 To 500, Deduct	-2.15	
		For >500, Deduct	-3.09	
		For Work In Restricted Working Space, Add	1.95	

27 Communications**27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0033	EA		4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	24.28	3.25
			For >50 To 100, Deduct	-0.77	
			For >100 To 250, Deduct	-1.54	
			For >250 To 500, Deduct	-2.63	
			For >500, Deduct	-3.73	
			For Work In Restricted Working Space, Add	1.95	
27 05 29 00-0034			Adjustable Cable Supports (Caddy® CableCat CAT425) (27 05 29)		
27 05 29 00-0035	EA		Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	41.26	4.28
			For >50 To 100, Deduct	-1.36	
			For >100 To 250, Deduct	-2.71	
			For >250 To 500, Deduct	-4.72	
			For >500, Deduct	-6.72	
			For Installation On Concrete (Includes Drilling And Fastener), Add	3.35	
			For Work In Restricted Working Space, Add	3.89	
27 05 29 00-0036	EA		Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	42.09	4.28
			For >50 To 100, Deduct	-1.38	
			For >100 To 250, Deduct	-2.75	
			For >250 To 500, Deduct	-4.78	
			For >500, Deduct	-6.81	
			For Work In Restricted Working Space, Add	3.89	
27 05 29 00-0037	EA		Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	46.39	4.28
			For >50 To 100, Deduct	-1.48	
			For >100 To 250, Deduct	-2.97	
			For >250 To 500, Deduct	-5.10	
			For >500, Deduct	-7.24	
			For Work In Restricted Working Space, Add	3.89	
27 05 29 00-0038	EA		>1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	41.12	4.28
			For >50 To 100, Deduct	-1.35	
			For >100 To 250, Deduct	-2.71	
			For >250 To 500, Deduct	-4.71	
			For >500, Deduct	-6.71	
			For Work In Restricted Working Space, Add	3.89	
27 05 29 00-0039	EA		Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	43.12	4.28
			For >50 To 100, Deduct	-1.40	
			For >100 To 250, Deduct	-2.81	
			For >250 To 500, Deduct	-4.86	
			For >500, Deduct	-6.91	
			For Work In Restricted Working Space, Add	3.89	
27 05 29 00-0040	EA		>1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	45.09	4.28
			For >50 To 100, Deduct	-1.45	
			For >100 To 250, Deduct	-2.90	
			For >250 To 500, Deduct	-5.00	
			For >500, Deduct	-7.11	
			For Work In Restricted Working Space, Add	3.89	
27 05 29 00-0041	EA		Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425)	42.44	4.28
			For >50 To 100, Deduct	-1.39	
			For >100 To 250, Deduct	-2.77	
			For >250 To 500, Deduct	-4.81	
			For >500, Deduct	-6.84	
			For Work In Restricted Working Space, Add	3.89	

27 05 33 Conduits and Back Boxes for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for conduit and boxes.

27 05 39 Surface Raceways for Communications Systems (27 05)

See CSI section 26 05 33 00-0000 for surface raceways.

27 05 43 Underground Ducts and Raceways for Communications Systems (27 05)

See CSI section 26 05 43 00-0000 for underground ducts and raceways.

27 05 46 Utility Poles for Communications Systems (27 05)

See CSI section 26 05 46 00-0000 for utility poles.

27 05 53 Identification for Communications Systems (27 05)

See CSI section 26 05 53 00-0000 for identification.

27 10 Structured Cabling (27)

Note: Includes identifying, tagging and testing.

27 11 Communications Equipment Room Fittings (27 10)**27 11 16 Communications Cabinets, Racks, Frames, and Enclosures (27 11)**

See CSI section 26 27 16 00-0000 for cabinets and enclosures.



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

27

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
27 11 16 00-0001	3/4" Fire Retardant Plywood Backboards (27 11 16)				
27 11 16 00-0002	EA 4' x 4' x 3/4" Fire Retardant Plywood Backboard.....	102.57		33.74	
	For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	61.96			
27 11 16 00-0003	EA 4' x 8' x 3/4" Fire Retardant Plywood Backboard.....	205.15		67.49	
	For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	123.92			
27 11 16 00-0004	Terminal Cabinets (27 11 16)				
27 11 16 00-0005	EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	404.54		97.34	
27 11 16 00-0006	EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	513.95		107.08	
27 11 16 00-0007	EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard.....	591.37		123.30	
27 11 16 00-0008	EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	613.96		126.54	
27 11 16 00-0009	EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard.....	755.39		129.79	
27 11 16 00-0010	EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard.....	937.88		146.01	
27 11 16 00-0011	EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	961.37		142.77	
27 11 16 00-0012	EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,231.67		203.38	
27 11 16 00-0013	EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,316.50		223.50	
27 11 16 00-0014	EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,596.63		236.09	
27 11 16 00-0015	EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,318.78		194.68	
27 11 16 00-0016	EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,426.19		210.91	
27 11 16 00-0017	EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	1,776.67		270.36	
27 11 16 00-0018	EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard.....	2,130.97		337.98	
27 11 16 00-0019	EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	2,425.42		334.21	
27 11 16 00-0020	EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard.....	2,781.74		406.63	
27 11 16 00-0021	Equipment Racks And Cable Managers (27 11 16)				
27 11 16 00-0022	Equipment Racks (27 11 16 00-0021)				
	Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.				
27 11 16 00-0023	Standard Equipment Racks (27 11 16 00-0022)				
27 11 16 00-0024	19" Width, Standard Equipment Racks (27 11 16 00-0023)				
27 11 16 00-0025	EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03).....	605.86		207.66	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	9.53			
27 11 16 00-0026	EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15).....	817.27		220.64	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	18.80			
27 11 16 00-0027	EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08).....	881.21		233.62	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	20.70			
27 11 16 00-0028	Universal Equipment Racks (27 11 16 00-0022)				
27 11 16 00-0029	Universal Equipment Racks (27 11 16 00-0028)				
27 11 16 00-0030	19" Width, EIA Universal Equipment Racks (27 11 16 00-0029)				
27 11 16 00-0031	EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31).....	757.42		181.70	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	19.70			
27 11 16 00-0032	EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20).....	822.95		184.95	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	22.65			
27 11 16 00-0033	EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19).....	823.08		188.19	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	22.33			
27 11 16 00-0034	EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00).....	843.68		191.44	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.04			
27 11 16 00-0035	EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01).....	864.05		194.68	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.73			
27 11 16 00-0036	EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02).....	886.02		197.93	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	24.51			
27 11 16 00-0037	EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03).....	766.22		201.17	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	18.19			
27 11 16 00-0038	EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05).....	928.76		204.42	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	26.00			
27 11 16 00-0039	EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15).....	960.25		207.66	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	27.25			
27 11 16 00-0040	EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17).....	987.89		210.91	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.30			
27 11 16 00-0041	EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08).....	995.45		214.15	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	28.36			
27 11 16 00-0042	23" Width, Universal Equipment Racks (27 11 16 00-0029)				
27 11 16 00-0043	EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31).....	797.85		181.70	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	21.72			
27 11 16 00-0044	EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20).....	824.45		184.95	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	22.73			
27 11 16 00-0045	EA 60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19).....	847.98		188.19	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	23.58			
27 11 16 00-0046	EA 66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00).....	891.03		191.44	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	25.41			
27 11 16 00-0047	EA 72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01).....	912.80		194.68	
	For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	26.17			

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0048 EA 78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02) 936.38 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 27.03		197.93
27 11 16 00-0049 EA 84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03) 817.16 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 20.74		201.17
27 11 16 00-0050 EA 90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05) 982.21 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 28.67		204.42
27 11 16 00-0051 EA 96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15) 1,016.23 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 30.05		207.66
27 11 16 00-0052 EA 102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17) 1,046.08 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 31.21		210.91
27 11 16 00-0053 EA 108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08) 1,053.73 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 31.27		214.15
27 11 16 00-0054 35" Width, Universal Equipment Racks (27 11 16 00-0029)		
27 11 16 00-0055 EA 72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01) 981.33 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 29.60		194.68
27 11 16 00-0056 EA 84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03) 1,032.08 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 31.49		201.17
27 11 16 00-0057 UL Listed Universal Equipment Racks (27 11 16 00-0028) Note: UL listed as a communications circuit accessory.		
27 11 16 00-0058 19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0059 EA 36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31) 796.83 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 21.67		181.70
27 11 16 00-0060 EA 48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20) 857.43 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 24.38		184.95
27 11 16 00-0061 EA 60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19) 870.71 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 24.72		188.19
27 11 16 00-0062 EA 66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00) 889.79 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 25.35		191.44
27 11 16 00-0063 EA 72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01) 911.51 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 26.11		194.68
27 11 16 00-0064 EA 78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02) 935.03 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 26.96		197.93
27 11 16 00-0065 EA 84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03) 957.66 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 27.77		201.17
27 11 16 00-0066 EA 90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05) 980.78 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 28.60		204.42
27 11 16 00-0067 EA 96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15) 1,014.76 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 29.97		207.66
27 11 16 00-0068 EA 102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17) 1,044.53 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 31.14		210.91
27 11 16 00-0069 EA 108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08) 1,052.12 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 31.19		214.15
27 11 16 00-0070 23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)		
27 11 16 00-0071 EA 36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31) 841.34 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 23.90		181.70
27 11 16 00-0072 EA 48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20) 917.80 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 27.39		184.95
27 11 16 00-0073 EA 60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19) 929.80 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 27.67		188.19
27 11 16 00-0074 EA 66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00) 941.83 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 27.95		191.44
27 11 16 00-0075 EA 72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01) 965.13 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 28.79		194.68
27 11 16 00-0076 EA 78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02) 990.44 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 29.73		197.93
27 11 16 00-0077 EA 84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03) 1,014.70 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 30.62		201.17
27 11 16 00-0078 EA 90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05) 1,039.53 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 31.53		204.42
27 11 16 00-0079 EA 96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15) 1,076.30 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 33.05		207.66
27 11 16 00-0080 EA 102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17) 1,108.51 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 34.33		210.91
27 11 16 00-0081 EA 108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08) 1,116.36 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 34.40		214.15
27 11 16 00-0082 4-Post Equipment Racks And Server Frames (27 11 16 00-0022)		
27 11 16 00-0083 4-Post Equipment Racks (27 11 16 00-0082)		
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03) 1,595.82 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 47.34		324.47
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15) 1,736.69 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 53.09		337.45
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08) 1,869.82 For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add 58.45		350.44



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add	1,637.46 49.43	324.47
27 11 16 00-0089 Cable Managers (27 11 16 00-0021)		
27 11 16 00-0090 Horizontal Cable Managers (27 11 16 00-0089)		
27 11 16 00-0091 Single-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0092 EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	90.40	12.98
27 11 16 00-0093 EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	100.17	12.98
27 11 16 00-0094 EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	76.19	12.98
27 11 16 00-0095 EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	91.87	12.98
27 11 16 00-0096 EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	107.00	12.98
27 11 16 00-0097 EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	83.91	12.98
27 11 16 00-0098 EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	122.36	12.98
27 11 16 00-0099 EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	138.68	12.98
27 11 16 00-0100 EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	99.37	12.98
27 11 16 00-0101 Double-Sided, Horizontal Cable Managers (27 11 16 00-0090)		
27 11 16 00-0102 EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	111.23	12.98
27 11 16 00-0103 EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	124.12	12.98
27 11 16 00-0104 EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	116.81	12.98
27 11 16 00-0105 EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	135.26	12.98
27 11 16 00-0106 EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	149.89	12.98
27 11 16 00-0107 EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	167.33	12.98
27 11 16 00-0108 Vertical Cable Managers (27 11 16 00-0089)		
27 11 16 00-0109 Single-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0110 EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	199.28	19.47
27 11 16 00-0111 EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	278.48	19.47
27 11 16 00-0112 EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	444.61	19.47
27 11 16 00-0113 EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	502.57	19.47
27 11 16 00-0114 EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	212.80	19.47
27 11 16 00-0115 EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	299.73	19.47
27 11 16 00-0116 EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	483.25	19.47
27 11 16 00-0117 EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	541.20	19.47
27 11 16 00-0118 EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	239.84	19.47
27 11 16 00-0119 EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	328.71	19.47
27 11 16 00-0120 EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	541.20	19.47
27 11 16 00-0121 EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	599.16	19.47
27 11 16 00-0122 Double-Sided, Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0123 EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	286.21	19.47
27 11 16 00-0124 EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	336.43	19.47
27 11 16 00-0125 EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	541.20	19.47
27 11 16 00-0126 EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	637.79	19.47
27 11 16 00-0127 EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	309.39	19.47
27 11 16 00-0128 EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	359.62	19.47
27 11 16 00-0129 EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	579.84	19.47
27 11 16 00-0130 EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	676.43	19.47
27 11 16 00-0131 EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	340.30	19.47
27 11 16 00-0132 EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	390.52	19.47
27 11 16 00-0133 EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	637.79	19.47
27 11 16 00-0134 EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	734.38	19.47
27 11 16 00-0135 Accessories For Vertical Cable Managers (27 11 16 00-0108)		
27 11 16 00-0136 EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	122.55	12.98
27 11 16 00-0137 EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	130.28	12.98
27 11 16 00-0138 EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	138.00	12.98
27 11 16 00-0139 EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	126.41	12.98
27 11 16 00-0140 EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	138.00	12.98
27 11 16 00-0141 EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	149.59	12.98
27 11 16 00-0142 EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	141.87	12.98
27 11 16 00-0143 EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	153.46	12.98
27 11 16 00-0144 EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	165.05	12.98
27 11 16 00-0145 EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	149.59	12.98
27 11 16 00-0146 EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	165.05	12.98
27 11 16 00-0147 EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	176.64	12.98
27 11 16 00-0148 EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	103.23	12.98
27 11 16 00-0149 EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	118.69	12.98
27 11 16 00-0150 EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	123.90	12.98
27 11 16 00-0151 EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	80.05	12.98

27	Communications
27 10	Structured Cabling
27 11	Communications Equipment Room Fittings



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 Communications Termination Blocks and Patch Panels (27 11)

Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.

27 11 19 00-0001 Computer Network Components (27 11 19)

27 11 19 00-0002 Ethernet Patch Panels (27 11 19 00-0001)

27 11 19 00-0003	EA	12 Port, Category 5E Patch Panel	276.92	64.89
27 11 19 00-0004	EA	24 Port, Category 5E Patch Panel	402.46	64.89
27 11 19 00-0005	EA	32 Port, Category 5E Patch Panel	521.25	64.89
27 11 19 00-0006	EA	48 Port, Category 5E Patch Panel	631.93	64.89
27 11 19 00-0007	EA	64 Port, Category 5E Patch Panel	993.75	81.12
27 11 19 00-0008	EA	96 Port, Category 5E Patch Panel	1,161.17	97.34
27 11 19 00-0009	EA	12 Port, Category 6 Patch Panel	374.38	64.89
27 11 19 00-0010	EA	24 Port, Category 6 Patch Panel	410.56	64.89
27 11 19 00-0011	EA	48 Port, Category 6 Patch Panel	691.33	64.89
27 11 19 00-0012	EA	96 Port, Category 6 Patch Panel	1,274.56	97.34
27 11 19 00-0013	EA	16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP)	803.32	97.34
27 11 19 00-0014	EA	16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP)	844.77	97.34
27 11 19 00-0015	EA	12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289)	317.17	64.89
27 11 19 00-0016	EA	Terminate One End Of A 4 Pair Cable To Category "X" Specifications	45.98	
		For >5 To 10 Cables, Deduct	-8.28	
		For >10 Cables, Deduct	-18.39	
27 11 19 00-0017	EA	Terminate One End Of A Twisted Pair Of Wires	12.64	
		Note: Per each pair		
		For >20 To 40 Pairs, Deduct	-2.02	
		For >40 Pairs, Deduct	-4.80	

27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures (27 11 19 00-0001)

27 11 19 00-0019 Fiber Optic Cable Connector Housings (27 11 19 00-0018)

27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0021	EA	1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	154.84	29.20
27 11 19 00-0022	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	229.89	29.20
27 11 19 00-0023	EA	4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	340.93	29.20
27 11 19 00-0024	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	503.53	48.67
27 11 19 00-0025	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing	701.23	48.67

27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0027	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	528.20	48.67
27 11 19 00-0028	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	599.17	48.67
27 11 19 00-0029	EA	6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	645.28	48.67
27 11 19 00-0030	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing	756.69	48.67

27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0032	EA	2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	652.98	48.67
		For Splice Tray Bracket, Add	82.74	
27 11 19 00-0033	EA	4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	765.11	48.67
		For Splice Tray Bracket, Add	90.48	
27 11 19 00-0034	EA	12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing	954.07	48.67
		For Splice Tray Bracket, Add	329.62	

27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings (27 11 19 00-0019)

Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0036	EA	8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	965.33	48.67
27 11 19 00-0037	EA	12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,239.63	48.67
27 11 19 00-0038	EA	24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,405.92	48.67
27 11 19 00-0039	EA	48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing	1,830.01	48.67

27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings (27 11 19 00-0019)

Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.

27 11 19 00-0041	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	740.34	29.20
27 11 19 00-0042	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	1,023.94	48.67
27 11 19 00-0043	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing	1,074.56	48.67



Communications			27
Structured Cabling			27 10
Communications Equipment Room Fittings			27 11

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0044	Wall Mount, Fiber Optic Cable Environmental Connector Housings (27 11 19 00-0019) Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.			
27 11 19 00-0045	EA	2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	775.32	29.20
27 11 19 00-0046	EA	6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	1,023.32	48.67
27 11 19 00-0047	EA	12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing	1,202.41	48.67
27 11 19 00-0048	Fiber Optic Cable Connector Panels (27 11 19 00-0018)			
27 11 19 00-0049	SC Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0050	EA	6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	101.85	6.49
27 11 19 00-0051	EA	6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	110.54	6.49
27 11 19 00-0052	EA	8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel	124.03	6.49
27 11 19 00-0053	EA	8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	135.61	6.49
27 11 19 00-0054	EA	12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	168.41	6.49
27 11 19 00-0055	EA	12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel	185.74	6.49
27 11 19 00-0056	SC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0057	EA	6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	98.01	6.49
27 11 19 00-0058	EA	6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	100.05	6.49
27 11 19 00-0059	EA	8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	118.94	6.49
27 11 19 00-0060	EA	8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	121.65	6.49
27 11 19 00-0061	EA	12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel	160.77	6.49
27 11 19 00-0062	EA	12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel	164.81	6.49
27 11 19 00-0063	LC Duplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0064	EA	6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	123.09	6.49
27 11 19 00-0065	EA	6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	135.23	6.49
27 11 19 00-0066	EA	8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	150.95	6.49
27 11 19 00-0067	EA	8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	167.15	6.49
27 11 19 00-0068	EA	12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	176.41	6.49
27 11 19 00-0069	EA	12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	196.86	6.49
27 11 19 00-0070	EA	16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel	262.52	6.49
27 11 19 00-0071	EA	16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	294.84	6.49
27 11 19 00-0072	EA	24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	374.04	6.49
27 11 19 00-0073	EA	24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel	327.01	6.49
27 11 19 00-0074	ST Simplex, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0075	EA	6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	84.65	6.49
27 11 19 00-0076	EA	6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	91.22	6.49
27 11 19 00-0077	EA	8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	101.10	6.49
27 11 19 00-0078	EA	8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	109.87	6.49
27 11 19 00-0079	EA	12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel	133.98	6.49
27 11 19 00-0080	EA	12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	147.15	6.49
27 11 19 00-0081	MT-RJ, Fiber Optic Cable Connector Panels (27 11 19 00-0048)			
27 11 19 00-0082	EA	12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel.....	105.24	6.49
27 11 19 00-0083	EA	12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel	157.50	6.49
27 11 19 00-0084	Fiber Optic Cable Pretium Edge® Modules (27 11 19 00-0048)			
27 11 19 00-0085	EA	12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module	1,073.40	6.49
27 11 19 00-0086	EA	12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	1,077.13	6.49
27 11 19 00-0087	Fiber Optic Cable Splice Housings (27 11 19 00-0018)			
27 11 19 00-0088	Wall Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087) Note: Includes mounting hardware. Excludes splice trays.			
27 11 19 00-0089	EA	12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	406.03	64.89
27 11 19 00-0090	Rack Mount, Fiber Optic Cable Splice Housings (27 11 19 00-0087) Note: Includes mounting hardware. Excludes splice trays.			
27 11 19 00-0091	EA	12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	616.56	48.67
27 11 19 00-0092	EA	22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing	636.22	48.67
27 11 19 00-0093	Fiber Optic Cable Splice Trays (27 11 19 00-0087)			
27 11 19 00-0094	EA	Fiber Optic Cable Splice Tray.....	116.98	16.22
27 11 19 00-0095	Fiber Optic Cable Jumper Management Panels (27 11 19 00-0018) Note: Includes mounting hardware.			
27 11 19 00-0096	EA	Rack Mount, Fiber Optic Cable Jumper Management Panel.....	220.85	48.67

27 Communications**27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 11 19 00-0097		Miscellaneous Accessories (27 11 19 00-0001)			
27 11 19 00-0098	EA	Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	71.95		
27 11 19 00-0099	EA	Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	95.56		
27 11 19 00-0100	EA	Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	104.53		
27 11 19 00-0101	EA	Wall Mount Bracket For 96 Port Patch Panel.....	116.56		
27 11 19 00-0102	EA	Lightning Protection Plus Stainless Steel Modules, Siemon.....	549.64		64.89
27 11 19 00-0103		Telephone Components (27 11 19)			
27 11 19 00-0104		Terminal Blocks With Wide Range Of 22-8 AWG (27 11 19 00-0103)			
27 11 19 00-0105	EA	Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG.....	38.19		13.01
27 11 19 00-0106	EA	Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	72.64		13.01
27 11 19 00-0107	EA	Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	58.54		13.01
27 11 19 00-0108	EA	Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	29.46		13.01
27 11 19 00-0109	EA	Flat Terminal Block Connection With Wire Range 22-8 AWG.....	20.90		9.11
27 11 19 00-0110	EA	Ground Terminal Block With Wire Range 22-8 AWG.....	39.68		13.01
27 11 19 00-0111	EA	Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG.....	29.46		13.01
27 11 19 00-0112	EA	Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG.....	20.68		9.11
27 11 19 00-0113	EA	Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG.....	20.53		9.11
27 11 19 00-0114	EA	Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG.....	21.21		9.11
27 11 19 00-0115		Terminal Block Mounting Channel (27 11 19 00-0103)			
27 11 19 00-0116	EA	Terminal Block Mounting Channel, .5 M Galvanized Steel.....	20.18		6.50
27 11 19 00-0117	EA	Terminal Block Mounting Channel, 1 M Galvanized Steel.....	26.00		6.50
27 11 19 00-0118	EA	Terminal Block Mounting Channel, 2 M Galvanized Steel.....	36.22		6.50
27 11 19 00-0119	EA	Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc.....	25.81		7.80
27 11 19 00-0120	EA	Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc.....	35.49		7.80
27 11 19 00-0121	EA	Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc.....	51.44		7.80
27 11 19 00-0122		Outlet Termination Hardware (27 11 19 00-0103)			
27 11 19 00-0123	EA	Telephone Outlet Blocks.....	38.85		6.50
27 11 19 00-0124	EA	Phone Outlet Block For Floor Box.....	109.02		49.32
		Note: Excludes box.			
27 11 19 00-0125	EA	Fiber Optic "SC" Type Modular Bulkhead.....	95.76		29.20
27 11 19 00-0126	EA	Fiber Optic "ST" Type Modular Bulkhead.....	95.76		29.20
27 11 19 00-0127	EA	Type "F" Coaxial Connector Male.....	56.06		19.47
27 11 19 00-0128	EA	Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	144.25		32.45
27 11 19 00-0129	EA	Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	144.25		32.45
27 11 19 00-0130	EA	Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	173.81		32.45
27 11 19 00-0131	EA	Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	173.81		32.45
27 11 19 00-0132	EA	Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector.....	158.25		32.45
27 11 19 00-0133	EA	Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	1,370.14		162.24
27 11 19 00-0134	EA	Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	67.55		12.98
		Note: Excludes cable terminations.			
27 11 19 00-0135	EA	5-Pair, Connecting Block.....	4.05		1.29
27 11 19 00-0136	EA	4-Pair, Connecting Block.....	4.38		1.29
27 11 19 00-0137	EA	Plastic Label Holder, Transparent.....	16.43		3.24
27 11 19 00-0138	EA	Marked Label, White, 5-Pair.....	4.45		
27 11 19 00-0139	EA	Marked Label, Blue, 4-Pair.....	4.45		
27 11 19 00-0140		Terminations in Manhole or Junction Box (27 11 19 00-0103)			
27 11 19 00-0141	EA	25 Pair Cable Termination In Manhole Or Junction Box.....	207.66		
27 11 19 00-0142	EA	50 Pair Cable Termination In Manhole Or Junction Box.....	415.33		
27 11 19 00-0143	EA	100 Pair Cable Termination In Manhole Or Junction Box.....	830.66		
27 11 19 00-0144	EA	150 Pair Cable Termination In Manhole Or Junction Box.....	1,245.99		
27 11 19 00-0145	EA	200 Pair Cable Termination In Manhole Or Junction Box.....	1,457.54		
27 11 19 00-0146	EA	300 Pair Cable Termination In Manhole Or Junction Box.....	2,185.67		
27 11 19 00-0147	EA	400 Pair Cable Termination In Manhole Or Junction Box.....	2,748.96		
27 11 19 00-0148	EA	500 Pair Cable Termination In Manhole Or Junction Box.....	3,436.85		
27 11 19 00-0149	EA	750 Pair Cable Termination In Manhole Or Junction Box.....	5,155.24		
27 11 19 00-0150	EA	1,000 Pair Cable Termination In Manhole Or Junction Box.....	6,251.95		
27 11 19 00-0151	EA	1,200 Pair Cable Termination In Manhole Or Junction Box.....	7,125.55		
27 11 23		Communications Cable Management and Ladder Rack (27 11)			
27 11 23 00-0001		Equipment Supports (27 11 23)			
27 11 23 00-0002	EA	Environmental Enclosure, NEMA 4x SS, 6' Free Standing.....	31,319.15		1,022.71
27 11 23 00-0003	EA	DVR Enclosure.....	2,205.39		255.65
27 11 23 00-0004	EA	Wall Mount Type 4X Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	8,141.57		511.31
27 11 23 00-0005	EA	Panel, NEMA 12/27.00x21.00.....	589.46		127.83
27 11 23 00-0006	EA	Panel, NEMA 12/8.75x6.88.....	160.35		127.83
27 11 23 00-0007	EA	Clamp Assembly, Fast Opening, Stainless Steel Type 304.....	212.39		127.83
27 11 23 00-0008	EA	Wall-Mount Type 4x Enclosure 24.00x30.00x8.00 Stainless Steel Type 316.....	7,246.78		127.83
27 11 23 00-0009	EA	12" x 5'-11" Tubular Runway.....	129.80		31.15



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 23 00-0010	EA		12" x 9'-11" Tubular Runway	223.76	51.92
27 11 23 00-0011	EA		Shelf Bracket Support For Tubular Runway	41.09	9.73
27 11 23 00-0012	EA		Straight Clamp Hardware For Tubular Runway	17.45	6.49
27 11 23 00-0013	EA		Corner Clamp Hardware For Tubular Runway	18.56	6.49
27 11 23 00-0014	EA		90 Degree Edge Clamp Hardware For Tubular Runway	42.76	11.68
27 11 23 00-0015	EA		Wall Angle Assembly Hardware For 12" Wide Tubular Runway	91.35	19.47
27 11 23 00-0016	EA		J-Bolt Hardware For Tubular Runway	8.26	2.86
27 11 23 00-0017	EA		T Bracket Hardware For Tubular Runway	46.74	16.22
27 11 23 00-0018	EA		110 Jumper Trough (Commscope 107831133)	37.82	6.49
27 11 23 00-0019	LF		Velcro CMP	3.14	1.30

27 13 Communications Backbone Cabling (27 10)**27 13 13 Communications Copper Backbone Cabling** (27 13)**27 13 13 13 Communications Copper Cable Splicing and Terminations** (27 13 13)**27 13 13 13-0001 Building Entrance Terminals** (27 13 13 13)

27 13 13 13-0002	EA	25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,977.95	284.64
27 13 13 13-0003	EA	50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,943.87	474.41
27 13 13 13-0004	EA	100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	5,553.42	759.64

27 13 13 13-0005 Modular Plugs For Copper Communications Cable (27 13 13 13)

27 13 13 13-0006	EA	Modular Plug For Non Shielded Copper Communications Cable.....	32.47
Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.			
For >5 To 10, Deduct			-3.88
For >10, Deduct			-7.76
27 13 13 13-0007	EA	Modular Plug For Shielded Copper Communications Cable.....	37.10
Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.			
For >5 To 10, Deduct			-4.37
For >10, Deduct			-8.73

27 13 13 13-0008 Testing And Certification Of Copper Communications Cable (27 13 13 13)

Note: Use for existing systems.				
27 13 13 13-0009	EA	Test 1-Pair Of A Copper Communications Cable For Continuity	6.49	
		For >25-Pair, Deduct	-2.59	
27 13 13 13-0010	EA	Certify 1-Pair Of A Copper Communications Cable	9.73	
		For >25-Pair, Deduct	-3.88	
27 13 13 13-0011	EA	Certify And Document 1-Pair Of A Copper Communications Cable	15.58	
		For >25-Pair, Deduct	-6.21	
27 13 13 13-0012	EA	Test 4-Pair Category 5-7 Telecommunications Cable For Continuity	25.96	
		For >25-Pair, Deduct	-10.35	
27 13 13 13-0013	EA	Certify 4-Pair Category 5-7 Telecommunications Cable	38.94	
		For >25-Pair, Deduct	-15.53	
27 13 13 13-0014	EA	Certify And Document 4-Pair Category 5-7 Telecommunications Cable	62.30	
		For >25-Pair, Deduct	-24.84	

27 13 13 13-0015 Communications Termination Blocks (27 13 13 13)

27 13 13 13-0016	EA	100-Pair, 110 Block With Legs.....	64.53	16.22
27 13 13 13-0017	EA	300-Pair, 110 Block With Legs.....	111.19	16.22
27 13 13 13-0018	EA	Clear Label Holder For 110 Wiring Block.....	13.89	6.49
27 13 13 13-0019	EA	4-Pair, 110C Connecting Block.....	7.90	3.24
27 13 13 13-0020	EA	5-Pair, 110C Connecting Block.....	8.07	3.24
27 13 13 13-0021	EA	100-Pair, 110 Jack Panel System.....	360.45	19.47
Note: Includes twelve 8-pin modular jacks and mounting legs.				
27 13 13 13-0022	EA	300-Pair, 110 Jack Panel System.....	683.71	19.47
Note: Includes twelve 8-pin modular jacks and mounting legs.				

27 13 23 Communications Optical Fiber Backbone Cabling (27 13)**27 13 23 13 Communications Optical Fiber Splicing and Terminations** (27 13 23)**27 13 23 13-0001 Fiber Optic Cable Connectors** (27 13 23 13)

27 13 23 13-0002	EA	ST Connector For Multimode Fiber Optic Cable.....	37.45	
27 13 23 13-0003	EA	ST Connector For Singlemode Fiber Optic Cable.....	43.16	
27 13 23 13-0004	EA	SC Connector For Multimode Fiber Optic Cable	41.68	
27 13 23 13-0005	EA	SC Connector For Singlemode Fiber Optic Cable	48.96	
27 13 23 13-0006	EA	LC Connector For Multimode Fiber Optic Cable.....	56.93	
27 13 23 13-0007	EA	LC Connector For Singlemode Fiber Optic Cable.....	58.63	
27 13 23 13-0008	EA	MT-RJ Connector For Multimode Fiber Optic Cable.....	84.94	

27 13 23 13-0009 Fiber Optic Cable Fan Out Kits (27 13 23 13)**27 13 23 13-0010 Buffer Tube Fan Out Kits For Fiber Optic Cable** (27 13 23 13-0009)

27 13 23 13-0011	EA	6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	281.24	
27 13 23 13-0012	EA	12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable	285.38	
27 13 23 13-0013	EA	6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	320.32	

27 Communications**27 10 Structured Cabling****27 13 Communications Backbone Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 23 13-0014 EA 12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	346.52	
27 13 23 13-0015 Spider Fan Out Kits For Fiber Optic Cable (27 13 23 13-0009) Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.		
27 13 23 13-0016 EA 6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	332.21	
27 13 23 13-0017 EA 12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	359.97	
27 13 23 13-0018 EA 18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	526.08	
27 13 23 13-0019 EA 24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	683.62	
27 13 23 13-0020 Fiber Optic Cable Splice Closures (27 13 23 13) Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0021 EA Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,020.35	129.79
27 13 23 13-0022 EA Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,279.93	259.58
27 13 23 13-0023 EA Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,279.93	259.58
27 13 23 13-0024 EA Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,708.73	129.79
27 13 23 13-0025 EA Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,968.31	259.58
27 13 23 13-0026 EA Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,968.31	259.58
27 13 23 13-0027 EA Splice Tray For Fiber Optic Cable Splice Closure.....	70.80	16.22
Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		
27 13 23 13-0028 Fiber Optic Cable Splicing (27 13 23 13) Note: Price based on testing one wavelength.		
27 13 23 13-0029 EA Single Strand, Fusion Splice Of Fiber Optic Cable.....	38.94	
27 13 23 13-0030 EA 12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	129.79	
27 13 23 13-0031 Fiber Optic Cable Testing (27 13 23 13) Note: Price based on testing one wavelength.		
27 13 23 13-0032 Fiber Optic Cable Testing Using An OTDR (27 13 23 13-0031) Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0033 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test.....	25.96	
For >12 To 48 Strands, Deduct	-1.95	
For >48 Strands, Deduct	-2.60	
27 13 23 13-0034 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test.....	38.94	
For >12 To 48 Strands, Deduct	-2.92	
For >48 Strands, Deduct	-3.89	
27 13 23 13-0035 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation.....	64.89	
For >12 To 48 Strands, Deduct	-4.87	
For >48 Strands, Deduct	-6.49	
27 13 23 13-0036 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation.....	97.34	
For >12 To 48 Strands, Deduct	-7.30	
For >48 Strands, Deduct	-9.73	
27 13 23 13-0037 Fiber Optic Cable Testing Using A Power Meter (27 13 23 13-0031) Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0038 EA Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test.....	25.96	
For >12 To 48 Strands, Deduct	-1.95	
For >48 Strands, Deduct	-2.60	
27 13 23 13-0039 EA Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test.....	38.94	
For >12 To 48 Strands, Deduct	-2.92	
For >48 Strands, Deduct	-3.89	
27 13 23 13-0040 Fiber Optic Cable Light Source/Continuity Testing (27 13 23 13-0031) Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0041 EA Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test.....	25.96	
For >12 To 48 Strands, Deduct	-1.95	
For >48 Strands, Deduct	-2.60	
27 13 23 13-0042 Other Fiber Optic Cable Equipment (27 13 23 13) Note: Patch antenna with 1 meter 3' SMA-N cable		
27 13 23 13-0043 EA 8 Port Ethernet Switch.....	1,075.99	255.35
27 13 23 13-0044 EA 18 dBi Gain, 5.25-5.85 GHz Band, 18 Degree Beamwidth.....	1,511.49	255.35
27 13 23 13-0045 EA Outdoor Multi Band 5.3 Or 5.8 GHz Wireless Ethernet Bridge.....	36,894.94	255.35
Note: 8 Volt DC input		
27 13 23 13-0046 EA UPS, 500 VA 300 Watt UPS For CCTV, Edco PA400-120U.....	368.88	31.97
27 13 23 13-0047 EA Hardened Ethernet Switch.....	3,894.55	127.83
27 13 23 13-0048 EA 1,440 Watt, 120 Volt AC Solar Power Station.....	100,846.80	3,067.86
27 13 23 13-0049 EA 2,880 Watt, 120 Volt AC Solar Power Station.....	125,254.13	4,090.48
27 13 23 13-0050 EA Fiber Break Out Box For 24 Fiber.....	1,640.70	255.65
27 13 23 13-0051 EA Fiber Optic MM Data (PTZ or SYNC) 1300 Video 850, 1 Fiber, RM.....	1,881.99	127.83
27 13 23 13-0052 EA Fiber Optic MM Data (PTZ or SYNC) 850 Video 850, 2 Fibers.....	1,577.04	127.83
27 13 23 13-0053 EA Fiber Optic 19" Rack, 115 Volt AC Input.....	2,009.82	191.74
27 13 23 13-0054 EA Commercial Gigabit Media Converter, Ethernet RJ45 to Fiber Optic. Shelf, Wall or Chassis Mount, 100 Volt AC - 260 Volt AC, Power Module Included. Gigabit Ports: 1 x 1000TX And 1 x 1000LX SM 20KM, (Etherwan Systems).....	1,539.04	
27 13 23 13-0055 EA Media Converter Chassis (Etherwan Systems), 16 Slots for any Standard Size Media Converter, 19" Rack Mount Redundant Power Supplies, Power Option 100 Volt AC - 260 Volt AC.....	1,539.04	



Communications			27
Structured Cabling			27 10
Communications Backbone Cabling			27 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 13 23 13-0056			Other Fiber Optic Cable Splicing (27 13 23 13)		
27 13 23 13-0057	EA		Fiber Optic Finger Splice	44.91	24.41
27 13 23 13-0058	EA		Fiber Optic Splice Box - Manholes.....	7,016.21	

27 15 Communications Horizontal Cabling (27 10)**27 15 13 Communications Copper Horizontal Cabling (27 15)**

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 13 00-0001			Solid Conductor Low Voltage Cable (27 15 13)		
27 15 13 00-0002			Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-0003			#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0004	MLF		1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,250.98	1,174.16
			For #10 AWG, Add	488.40	
			For Work In Restricted Working Space, Add	587.13	
27 15 13 00-0005	MLF		2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,569.02	1,215.66
			For #10 AWG, Add	584.31	
			For Work In Restricted Working Space, Add	608.01	
27 15 13 00-0006	MLF		3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,852.23	1,258.36
			For #10 AWG, Add	668.67	
			For Work In Restricted Working Space, Add	629.00	
27 15 13 00-0007	MLF		4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,151.30	1,301.06
			For #10 AWG, Add	757.95	
			For Work In Restricted Working Space, Add	650.72	
27 15 13 00-0008	MLF		5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,510.84	1,388.82
			For #10 AWG, Add	857.58	
			For Work In Restricted Working Space, Add	694.61	
27 15 13 00-0009	MLF		6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,844.19	1,475.40
			For #10 AWG, Add	948.83	
			For Work In Restricted Working Space, Add	737.89	
27 15 13 00-0010	MLF		8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,209.03	1,650.93
			For #10 AWG, Add	1,031.35	
			For Work In Restricted Working Space, Add	825.31	
27 15 13 00-0011	MLF		12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,570.53	2,176.33
			For #10 AWG, Add	1,366.83	
			For Work In Restricted Working Space, Add	1,087.96	
27 15 13 00-0012	MLF		24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,271.46	3,214.09
			For #10 AWG, Add	2,033.37	
			For Work In Restricted Working Space, Add	1,606.63	
27 15 13 00-0013			#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)		
27 15 13 00-0014	MLF		1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,992.22	1,027.08
			For Work In Restricted Working Space, Add	513.43	
27 15 13 00-0015	MLF		2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,291.26	1,063.85
			For Work In Restricted Working Space, Add	531.93	
27 15 13 00-0016	MLF		3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,556.68	1,100.61
			For Work In Restricted Working Space, Add	550.43	
27 15 13 00-0017	MLF		4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,836.10	1,138.57
			For Work In Restricted Working Space, Add	569.29	
27 15 13 00-0018	MLF		5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,167.93	1,215.66
			For Work In Restricted Working Space, Add	607.71	
27 15 13 00-0019	MLF		6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,474.31	1,291.56
			For Work In Restricted Working Space, Add	645.43	
27 15 13 00-0020	MLF		8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,800.68	1,444.56
			For Work In Restricted Working Space, Add	722.28	
27 15 13 00-0021	MLF		12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,030.01	1,903.55
			For Work In Restricted Working Space, Add	951.77	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0022	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	7,473.27 1,406.13	2,812.03
27 15 13 00-0023 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)				
27 15 13 00-0024	MLF	1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,776.04 458.63	916.79
27 15 13 00-0025	MLF	2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,980.10 475.00	950.00
27 15 13 00-0026	MLF	3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,273.60 491.36	983.21
27 15 13 00-0027	MLF	4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,521.24 508.44	1,016.42
27 15 13 00-0028	MLF	5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,814.50 542.60	1,085.20
27 15 13 00-0029	MLF	6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,086.28 576.40	1,152.80
27 15 13 00-0030	MLF	7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,231.03 610.56	1,221.59
27 15 13 00-0031	MLF	8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,376.99 645.07	1,290.38
27 15 13 00-0032	MLF	9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,717.83 685.99	1,372.21
27 15 13 00-0033	MLF	12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	4,468.45 849.84	1,699.55
27 15 13 00-0034	MLF	24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	6,638.33 1,255.45	2,510.79
27 15 13 00-0035 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)				
27 15 13 00-0036	MLF	1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,519.53 403.48	807.67
27 15 13 00-0037	MLF	2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,715.76 418.07	836.13
27 15 13 00-0038	MLF	3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,891.07 432.66	864.61
27 15 13 00-0039	MLF	4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,074.34 447.24	894.25
27 15 13 00-0040	MLF	5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,301.85 477.49	954.74
27 15 13 00-0041	MLF	6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,513.81 507.38	1,014.04
27 15 13 00-0042	MLF	8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,757.88 567.51	1,135.02
27 15 13 00-0043	MLF	12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,647.92 747.90	1,495.56
27 15 13 00-0044	MLF	24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	5,414.95 1,104.77	2,209.54
27 15 13 00-0045 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)				
27 15 13 00-0046	MLF	1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,356.95 366.83	734.14
27 15 13 00-0047	MLF	2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,514.99 380.00	760.23
27 15 13 00-0048	MLF	3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,655.49 393.16	786.92



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0049	MLF	4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,802.81	813.60	
		For Work In Restricted Working Space, Add	406.68		
27 15 13 00-0050	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,992.13	868.16	
		For Work In Restricted Working Space, Add	433.90		
27 15 13 00-0051	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,169.19	922.71	
		For Work In Restricted Working Space, Add	461.12		
27 15 13 00-0052	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,395.06	1,031.83	
		For Work In Restricted Working Space, Add	515.92		
27 15 13 00-0053	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,154.01	1,360.36	
		For Work In Restricted Working Space, Add	679.94		
27 15 13 00-0054	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,679.41	2,009.11	
		For Work In Restricted Working Space, Add	1,004.43		
27 15 13 00-0055	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,909.11	2,056.54	
		For Work In Restricted Working Space, Add	1,028.27		
27 15 13 00-0056	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,806.36	2,394.56	
		For Work In Restricted Working Space, Add	1,197.28		
27 15 13 00-0057	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,225.14	2,562.97	
		For Work In Restricted Working Space, Add	1,281.60		
27 15 13 00-0058	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,550.11	3,203.41	
		For Work In Restricted Working Space, Add	1,601.47		
27 15 13 00-0059	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,158.30	4,217.46	
		For Work In Restricted Working Space, Add	2,108.48		
27 15 13 00-0060		#22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0002)			
27 15 13 00-0061	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,170.80	660.61	
		For Work In Restricted Working Space, Add	330.18		
27 15 13 00-0062	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,235.80	684.32	
		For Work In Restricted Working Space, Add	341.93		
27 15 13 00-0063	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,311.84	708.05	
		For Work In Restricted Working Space, Add	354.02		
27 15 13 00-0064	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,392.79	731.77	
		For Work In Restricted Working Space, Add	366.12		
27 15 13 00-0065	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,523.40	781.58	
		For Work In Restricted Working Space, Add	390.67		
27 15 13 00-0066	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,653.34	827.83	
		For Work In Restricted Working Space, Add	414.16		
27 15 13 00-0067		Triad (27 15 13 00-0002)			
27 15 13 00-0068	MLF	1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit	3,102.03	983.21	
27 15 13 00-0069	MLF	4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	4,027.16	1,360.36	
27 15 13 00-0070	MLF	8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	6,313.47	2,009.11	
27 15 13 00-0071	MLF	12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	7,882.99	2,394.56	
27 15 13 00-0072	MLF	24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	12,947.42	3,709.85	
27 15 13 00-0073	MLF	36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	14,905.02	4,217.46	
27 15 13 00-0074		Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)			
27 15 13 00-0075		#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)			
27 15 13 00-0076	MLF	1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,208.06	2,348.30	
		For #10 AWG, Add	879.82		
		For Work In Restricted Working Space, Add	1,174.25		
27 15 13 00-0077	MLF	2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,595.73	2,431.33	
		For #10 AWG, Add	989.65		
		For Work In Restricted Working Space, Add	1,216.02		
27 15 13 00-0078	MLF	3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,948.90	2,516.71	
		For #10 AWG, Add	1,088.00		
		For Work In Restricted Working Space, Add	1,258.00		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0079	MLF	4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	5,320.39	2,602.11
		For #10 AWG, Add		1,191.77	
		For Work In Restricted Working Space, Add		1,301.45	
27 15 13 00-0080	MLF	5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	5,826.22	2,777.64
		For #10 AWG, Add		1,320.65	
		For Work In Restricted Working Space, Add		1,389.23	
27 15 13 00-0081	MLF	6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	6,303.84	2,950.80
		For #10 AWG, Add		1,440.76	
		For Work In Restricted Working Space, Add		1,475.79	
27 15 13 00-0082	MLF	8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	6,960.06	3,301.85
		For #10 AWG, Add		1,581.55	
		For Work In Restricted Working Space, Add		1,650.62	
27 15 13 00-0083	MLF	12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	9,197.04	4,352.66
		For #10 AWG, Add		2,092.13	
		For Work In Restricted Working Space, Add		2,175.91	
27 15 13 00-0084	MLF	24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	13,626.89	6,428.18
		For #10 AWG, Add		3,104.46	
		For Work In Restricted Working Space, Add		3,213.26	
27 15 13 00-0085 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)					
27 15 13 00-0086	MLF	1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	3,703.62	2,054.18
		For Work In Restricted Working Space, Add		1,026.85	
27 15 13 00-0087	MLF	2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	4,064.34	2,127.71
		For Work In Restricted Working Space, Add		1,063.85	
27 15 13 00-0088	MLF	3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	4,391.44	2,201.24
		For Work In Restricted Working Space, Add		1,100.86	
27 15 13 00-0089	MLF	4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	4,733.72	2,277.14
		For Work In Restricted Working Space, Add		1,138.57	
27 15 13 00-0090	MLF	5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	5,193.63	2,431.33
		For Work In Restricted Working Space, Add		1,215.42	
27 15 13 00-0091	MLF	6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	5,625.73	2,583.13
		For Work In Restricted Working Space, Add		1,290.85	
27 15 13 00-0092	MLF	8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	6,208.29	2,889.13
		For Work In Restricted Working Space, Add		1,444.56	
27 15 13 00-0093	MLF	12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	8,202.58	3,807.10
		For Work In Restricted Working Space, Add		1,903.54	
27 15 13 00-0094	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	12,160.39	5,624.06
		For Work In Restricted Working Space, Add		2,812.27	
27 15 13 00-0095 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)					
27 15 13 00-0096	MLF	1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	3,304.81	1,833.57
		For Work In Restricted Working Space, Add		917.26	
27 15 13 00-0097	MLF	2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	3,563.43	1,899.99
		For Work In Restricted Working Space, Add		950.00	
27 15 13 00-0098	MLF	3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	3,911.48	1,966.40
		For Work In Restricted Working Space, Add		982.73	
27 15 13 00-0099	MLF	4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	4,216.05	2,032.82
		For Work In Restricted Working Space, Add		1,016.89	
27 15 13 00-0100	MLF	5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	4,623.18	2,170.40
		For Work In Restricted Working Space, Add		1,085.20	
27 15 13 00-0101	MLF	6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	5,007.62	2,305.61
		For Work In Restricted Working Space, Add		1,152.80	
27 15 13 00-0102	MLF	7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	5,266.23	2,443.18
		For Work In Restricted Working Space, Add		1,221.12	
27 15 13 00-0103	MLF	8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed.....	5,527.23	2,580.76
		For Work In Restricted Working Space, Add		1,290.14	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0104	MLF	9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	6,004.46	2,744.43
		For Work In Restricted Working Space, Add		1,371.98	
27 15 13 00-0105	MLF	12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	7,301.23	3,399.11
		For Work In Restricted Working Space, Add		1,699.67	
27 15 13 00-0106	MLF	24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	10,823.17	5,021.57
		For Work In Restricted Working Space, Add		2,510.90	
27 15 13 00-0107 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)					
27 15 13 00-0108	MLF	1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	2,864.48	1,615.35
		For Work In Restricted Working Space, Add		806.96	
27 15 13 00-0109	MLF	2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	3,109.31	1,672.28
		For Work In Restricted Working Space, Add		836.14	
27 15 13 00-0110	MLF	3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	3,333.26	1,729.20
		For Work In Restricted Working Space, Add		865.31	
27 15 13 00-0111	MLF	4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	3,565.17	1,788.50
		For Work In Restricted Working Space, Add		894.49	
27 15 13 00-0112	MLF	5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	3,893.47	1,909.48
		For Work In Restricted Working Space, Add		954.98	
27 15 13 00-0113	MLF	6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	4,205.05	2,028.08
		For Work In Restricted Working Space, Add		1,014.75	
27 15 13 00-0114	MLF	8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	4,649.57	2,270.02
		For Work In Restricted Working Space, Add		1,135.01	
27 15 13 00-0115	MLF	12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	6,140.92	2,991.12
		For Work In Restricted Working Space, Add		1,495.80	
27 15 13 00-0116	MLF	24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	9,097.50	4,419.08
		For Work In Restricted Working Space, Add		2,209.53	
27 15 13 00-0117 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0074)					
27 15 13 00-0118	MLF	1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	2,579.73	1,468.28
		For Work In Restricted Working Space, Add		733.67	
27 15 13 00-0119	MLF	2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	2,781.65	1,520.47
		For Work In Restricted Working Space, Add		760.00	
27 15 13 00-0120	MLF	3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	2,966.03	1,573.84
		For Work In Restricted Working Space, Add		786.32	
27 15 13 00-0121	MLF	4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	3,158.42	1,627.21
		For Work In Restricted Working Space, Add		813.37	
27 15 13 00-0122	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	3,438.47	1,736.32
		For Work In Restricted Working Space, Add		867.80	
27 15 13 00-0123	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	3,706.26	1,845.43
		For Work In Restricted Working Space, Add		922.24	
27 15 13 00-0124	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	4,114.77	2,063.66
		For Work In Restricted Working Space, Add		1,031.83	
27 15 13 00-0125	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	5,420.47	2,720.71
		For Work In Restricted Working Space, Add		1,359.88	
27 15 13 00-0126	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	8,027.51	4,018.20
		For Work In Restricted Working Space, Add		2,008.86	
27 15 13 00-0127	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	8,336.67	4,113.09
		For Work In Restricted Working Space, Add		2,056.54	
27 15 13 00-0128	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	9,797.30	4,789.11
		For Work In Restricted Working Space, Add		2,394.56	
27 15 13 00-0129	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	10,497.15	5,125.94
		For Work In Restricted Working Space, Add		2,563.20	
27 15 13 00-0130	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed	Exposed	12,888.31	6,406.84
		For Work In Restricted Working Space, Add		3,202.93	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0131 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	17,186.56 4,216.96	8,434.91
27 15 13 00-0132 #22 AWG, Shielded, Low Voltage Cable, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0133 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,271.43 660.37	1,321.22
27 15 13 00-0134 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,375.57 683.86	1,368.66
27 15 13 00-0135 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,491.92 708.05	1,416.10
27 15 13 00-0136 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,613.20 732.24	1,463.54
27 15 13 00-0137 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,825.64 781.34	1,563.16
27 15 13 00-0138 MLF 6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,033.85 828.31	1,655.67
27 15 13 00-0139 Triad, Installed Exposed (27 15 13 00-0074)		
27 15 13 00-0140 MLF 1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	3,102.03	983.21
27 15 13 00-0141 MLF 4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	4,027.16	1,360.36
27 15 13 00-0142 MLF 8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	6,313.47	2,009.11
27 15 13 00-0143 MLF 12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	7,882.99	2,394.56
27 15 13 00-0144 MLF 24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	12,947.42	3,709.85
27 15 13 00-0145 MLF 36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed.....	14,905.02	4,217.46
27 15 13 00-0146 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)		
27 15 13 00-0147 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0148 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,925.55 513.43	1,027.08
27 15 13 00-0149 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,168.23 531.93	1,063.85
27 15 13 00-0150 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,385.28 550.43	1,100.61
27 15 13 00-0151 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,613.28 569.29	1,138.57
27 15 13 00-0152 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,894.37 607.00	1,214.48
27 15 13 00-0153 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,159.04 645.07	1,290.38
27 15 13 00-0154 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	3,469.92 722.28	1,444.56
27 15 13 00-0155 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	4,589.00 951.77	1,903.55
27 15 13 00-0156 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	6,811.76 1,406.13	2,812.03
27 15 13 00-0157 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0158 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,717.33 458.63	916.79
27 15 13 00-0159 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,931.28 475.00	950.00
27 15 13 00-0160 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,122.66 491.36	983.21
27 15 13 00-0161 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,325.02 508.44	1,016.42



Communications			27
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Communications Horizontal Cabling			27 15

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0162	MLF	5	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,574.51	1,084.02
			<i>For Work In Restricted Working Space, Add</i>	542.24	
27 15 13 00-0163	MLF	6	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,809.69	1,152.80
			<i>For Work In Restricted Working Space, Add</i>	576.40	
27 15 13 00-0164	MLF	7	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,947.11	1,221.59
			<i>For Work In Restricted Working Space, Add</i>	610.56	
27 15 13 00-0165	MLF	8	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,146.19	1,290.38
			<i>For Work In Restricted Working Space, Add</i>	645.07	
27 15 13 00-0166	MLF	9	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,448.45	1,372.21
			<i>For Work In Restricted Working Space, Add</i>	685.95	
27 15 13 00-0167	MLF	12	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,080.10	1,699.55
			<i>For Work In Restricted Working Space, Add</i>	849.84	
27 15 13 00-0168	MLF	24	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,056.39	2,510.79
			<i>For Work In Restricted Working Space, Add</i>	1,255.63	
27 15 13 00-0169			#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0170	MLF	1	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,502.30	806.49
			<i>For Work In Restricted Working Space, Add</i>	403.48	
27 15 13 00-0171	MLF	2	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,675.76	836.13
			<i>For Work In Restricted Working Space, Add</i>	418.07	
27 15 13 00-0172	MLF	3	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,789.49	865.79
			<i>For Work In Restricted Working Space, Add</i>	432.66	
27 15 13 00-0173	MLF	4	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,935.80	894.25
			<i>For Work In Restricted Working Space, Add</i>	447.24	
27 15 13 00-0174	MLF	5	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,123.44	954.74
			<i>For Work In Restricted Working Space, Add</i>	477.49	
27 15 13 00-0175	MLF	6	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,309.90	1,015.22
			<i>For Work In Restricted Working Space, Add</i>	507.38	
27 15 13 00-0176	MLF	8	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,738.25	1,135.02
			<i>For Work In Restricted Working Space, Add</i>	567.51	
27 15 13 00-0177	MLF	12	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,566.83	1,495.56
			<i>For Work In Restricted Working Space, Add</i>	747.90	
27 15 13 00-0178	MLF	24	Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,855.42	2,209.54
			<i>For Work In Restricted Working Space, Add</i>	1,104.77	
27 15 13 00-0179			#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)		
27 15 13 00-0180	MLF	1	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,333.87	734.14
			<i>For Work In Restricted Working Space, Add</i>	366.83	
27 15 13 00-0181	MLF	2	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,456.03	760.23
			<i>For Work In Restricted Working Space, Add</i>	380.00	
27 15 13 00-0182	MLF	3	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,705.24	865.79
			<i>For Work In Restricted Working Space, Add</i>	432.66	
27 15 13 00-0183	MLF	4	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,857.93	910.15
			<i>For Work In Restricted Working Space, Add</i>	455.07	
27 15 13 00-0184	MLF	5	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,007.83	954.74
			<i>For Work In Restricted Working Space, Add</i>	477.49	
27 15 13 00-0185	MLF	6	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,173.29	1,015.22
			<i>For Work In Restricted Working Space, Add</i>	507.38	
27 15 13 00-0186	MLF	8	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,398.38	1,129.80
			<i>For Work In Restricted Working Space, Add</i>	565.02	
27 15 13 00-0187	MLF	12	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,943.28	1,360.36
			<i>For Work In Restricted Working Space, Add</i>	679.94	
27 15 13 00-0188	MLF	24	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,363.32	2,009.11
			<i>For Work In Restricted Working Space, Add</i>	1,004.43	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0189	MLF	25	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,557.35	2,056.54
			<i>For Work In Restricted Working Space, Add</i>	1,028.27	
27 15 13 00-0190	MLF	36	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,375.33	2,394.56
			<i>For Work In Restricted Working Space, Add</i>	1,197.28	
27 15 13 00-0191	MLF	40	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,761.40	2,562.97
			<i>For Work In Restricted Working Space, Add</i>	1,281.60	
27 15 13 00-0192	MLF	50	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,024.95	3,203.41
			<i>For Work In Restricted Working Space, Add</i>	1,601.47	
27 15 13 00-0193	MLF	100	Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,415.14	4,217.46
			<i>For Work In Restricted Working Space, Add</i>	2,108.48	
27 15 13 00-0194 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0146)					
27 15 13 00-0195	MLF	1	Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,174.26	660.61
			<i>For Work In Restricted Working Space, Add</i>	330.18	
27 15 13 00-0196	MLF	2	Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,240.53	684.32
			<i>For Work In Restricted Working Space, Add</i>	341.93	
27 15 13 00-0197	MLF	3	Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,323.38	708.05
			<i>For Work In Restricted Working Space, Add</i>	354.02	
27 15 13 00-0198	MLF	4	Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,412.51	731.77
			<i>For Work In Restricted Working Space, Add</i>	366.12	
27 15 13 00-0199	MLF	5	Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,540.02	781.58
			<i>For Work In Restricted Working Space, Add</i>	390.67	
27 15 13 00-0200	MLF	6	Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,673.84	827.83
			<i>For Work In Restricted Working Space, Add</i>	414.16	
27 15 13 00-0201 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0001)					
27 15 13 00-0202 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)					
27 15 13 00-0203	MLF	1	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,636.95	2,054.18
			<i>For Work In Restricted Working Space, Add</i>	1,026.85	
27 15 13 00-0204	MLF	2	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,941.31	2,127.71
			<i>For Work In Restricted Working Space, Add</i>	1,063.85	
27 15 13 00-0205	MLF	3	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,220.04	2,201.24
			<i>For Work In Restricted Working Space, Add</i>	1,100.86	
27 15 13 00-0206	MLF	4	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,510.90	2,277.14
			<i>For Work In Restricted Working Space, Add</i>	1,138.57	
27 15 13 00-0207	MLF	5	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,917.70	2,428.95
			<i>For Work In Restricted Working Space, Add</i>	1,214.00	
27 15 13 00-0208	MLF	6	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,309.28	2,580.76
			<i>For Work In Restricted Working Space, Add</i>	1,290.14	
27 15 13 00-0209	MLF	8	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,877.53	2,889.13
			<i>For Work In Restricted Working Space, Add</i>	1,444.56	
27 15 13 00-0210	MLF	12	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,761.57	3,807.10
			<i>For Work In Restricted Working Space, Add</i>	1,903.54	
27 15 13 00-0211	MLF	24	Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	11,498.88	5,624.06
			<i>For Work In Restricted Working Space, Add</i>	2,812.27	
27 15 13 00-0212 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)					
27 15 13 00-0213	MLF	1	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,246.10	1,833.57
			<i>For Work In Restricted Working Space, Add</i>	917.26	
27 15 13 00-0214	MLF	2	Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,514.61	1,899.99
			<i>For Work In Restricted Working Space, Add</i>	950.00	



Communications			27
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0215	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,760.54	1,966.40
		<i>For Work In Restricted Working Space, Add</i>	982.73	
27 15 13 00-0216	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,019.83	2,032.82
		<i>For Work In Restricted Working Space, Add</i>	1,016.89	
27 15 13 00-0217	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,381.99	2,168.03
		<i>For Work In Restricted Working Space, Add</i>	1,084.49	
27 15 13 00-0218	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,731.03	2,305.61
		<i>For Work In Restricted Working Space, Add</i>	1,152.80	
27 15 13 00-0219	MLF	7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,982.31	2,443.18
		<i>For Work In Restricted Working Space, Add</i>	1,221.12	
27 15 13 00-0220	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,296.43	2,580.76
		<i>For Work In Restricted Working Space, Add</i>	1,290.14	
27 15 13 00-0221	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,734.97	2,744.43
		<i>For Work In Restricted Working Space, Add</i>	1,371.91	
27 15 13 00-0222	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,912.88	3,399.11
		<i>For Work In Restricted Working Space, Add</i>	1,699.67	
27 15 13 00-0223	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,241.80	5,021.57
		<i>For Work In Restricted Working Space, Add</i>	2,511.25	
27 15 13 00-0224 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0225	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,847.25	1,612.98
		<i>For Work In Restricted Working Space, Add</i>	806.96	
27 15 13 00-0226	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,069.31	1,672.28
		<i>For Work In Restricted Working Space, Add</i>	836.14	
27 15 13 00-0227	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,231.68	1,731.58
		<i>For Work In Restricted Working Space, Add</i>	865.31	
27 15 13 00-0228	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,426.63	1,788.50
		<i>For Work In Restricted Working Space, Add</i>	894.49	
27 15 13 00-0229	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,715.06	1,909.48
		<i>For Work In Restricted Working Space, Add</i>	954.98	
27 15 13 00-0230	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,001.14	2,030.45
		<i>For Work In Restricted Working Space, Add</i>	1,014.75	
27 15 13 00-0231	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,629.94	2,270.02
		<i>For Work In Restricted Working Space, Add</i>	1,135.01	
27 15 13 00-0232	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,059.83	2,991.12
		<i>For Work In Restricted Working Space, Add</i>	1,495.80	
27 15 13 00-0233	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,537.97	4,419.08
		<i>For Work In Restricted Working Space, Add</i>	2,209.53	
27 15 13 00-0234 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)				
27 15 13 00-0235	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,556.65	1,468.28
		<i>For Work In Restricted Working Space, Add</i>	733.67	
27 15 13 00-0236	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,722.69	1,520.47
		<i>For Work In Restricted Working Space, Add</i>	760.00	
27 15 13 00-0237	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,147.43	1,731.58
		<i>For Work In Restricted Working Space, Add</i>	865.31	
27 15 13 00-0238	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,374.84	1,820.29
		<i>For Work In Restricted Working Space, Add</i>	910.15	
27 15 13 00-0239	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,599.45	1,909.48
		<i>For Work In Restricted Working Space, Add</i>	954.98	
27 15 13 00-0240	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,864.53	2,030.45
		<i>For Work In Restricted Working Space, Add</i>	1,014.75	
27 15 13 00-0241	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,281.76	2,259.59
		<i>For Work In Restricted Working Space, Add</i>	1,130.03	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0242	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,209.74	2,720.71	
		<i>For Work In Restricted Working Space, Add</i>	1,359.88		
27 15 13 00-0243	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,711.42	4,018.20	
		<i>For Work In Restricted Working Space, Add</i>	2,008.86		
27 15 13 00-0244	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,984.91	4,113.09	
		<i>For Work In Restricted Working Space, Add</i>	2,056.54		
27 15 13 00-0245	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,366.27	4,789.11	
		<i>For Work In Restricted Working Space, Add</i>	2,394.56		
27 15 13 00-0246	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,033.41	5,125.94	
		<i>For Work In Restricted Working Space, Add</i>	2,563.20		
27 15 13 00-0247	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,363.15	6,406.84	
		<i>For Work In Restricted Working Space, Add</i>	3,202.93		
27 15 13 00-0248	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	16,443.40	8,434.91	
		<i>For Work In Restricted Working Space, Add</i>	4,216.96		
27 15 13 00-0249		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0201)			
27 15 13 00-0250	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,274.89	1,321.22	
		<i>For Work In Restricted Working Space, Add</i>	660.37		
27 15 13 00-0251	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,380.30	1,368.66	
		<i>For Work In Restricted Working Space, Add</i>	683.86		
27 15 13 00-0252	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,503.46	1,416.10	
		<i>For Work In Restricted Working Space, Add</i>	708.05		
27 15 13 00-0253	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,632.92	1,463.54	
		<i>For Work In Restricted Working Space, Add</i>	732.24		
27 15 13 00-0254	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,842.26	1,563.16	
		<i>For Work In Restricted Working Space, Add</i>	781.34		
27 15 13 00-0255	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,054.35	1,655.67	
		<i>For Work In Restricted Working Space, Add</i>	828.31		
27 15 13 00-0256		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench (27 15 13 00-0001)			
		Note: Excludes excavation.			
27 15 13 00-0257	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	1,841.02		
27 15 13 00-0258	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,133.14		
27 15 13 00-0259	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,393.07		
27 15 13 00-0260	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,667.51		
27 15 13 00-0261	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,987.69		
27 15 13 00-0262	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,283.61		
27 15 13 00-0263		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0001)			
27 15 13 00-0264	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	1,952.27	635.48	
27 15 13 00-0265	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,309.04	680.82	
27 15 13 00-0266	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,985.76	860.70	
27 15 13 00-0267	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,556.97	995.50	
27 15 13 00-0268	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	10,786.04	1,134.67	
27 15 13 00-0269	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	12,848.48	1,449.61	
27 15 13 00-0270		Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)			
27 15 13 00-0271	MLF	1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,722.05	916.79	
27 15 13 00-0272	MLF	2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,039.82	950.00	
27 15 13 00-0273	MLF	3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,266.03	983.21	
27 15 13 00-0274	MLF	4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,391.43	1,016.42	
27 15 13 00-0275	MLF	5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,835.79	1,084.02	
27 15 13 00-0276	MLF	6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,062.59	1,152.80	
27 15 13 00-0277	MLF	8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,793.64	1,290.38	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0278 MLF 12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,737.64	1,699.55
27 15 13 00-0279 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,175.51	2,510.79
27 15 13 00-0280 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,491.66	806.49
27 15 13 00-0281 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,753.03	836.13
27 15 13 00-0282 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,970.56	865.79
27 15 13 00-0283 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,082.16	894.25
27 15 13 00-0284 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,462.33	954.74
27 15 13 00-0285 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,750.27	1,015.22
27 15 13 00-0286 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,103.62	1,135.02
27 15 13 00-0287 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,017.77	1,495.56
27 15 13 00-0288 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,372.38	2,209.54
27 15 13 00-0289 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,323.21	734.14
27 15 13 00-0290 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,491.26	760.23
27 15 13 00-0291 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,654.33	786.33
27 15 13 00-0292 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,760.07	813.60
27 15 13 00-0293 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,912.07	868.16
27 15 13 00-0294 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,081.10	922.71
27 15 13 00-0295 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,330.52	1,031.83
27 15 13 00-0296 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,197.73	1,360.36
27 15 13 00-0297 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,844.03	2,009.11
27 15 13 00-0298 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,092.20	2,056.54
27 15 13 00-0299 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,996.46	2,394.56
27 15 13 00-0300 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,466.67	2,562.97
27 15 13 00-0301 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,823.64	3,203.41
27 15 13 00-0302 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,545.37	4,217.46
27 15 13 00-0303 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	20,261.54	7,768.37
27 15 13 00-0304 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	30,233.50	10,280.35
27 15 13 00-0305 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	40,268.35	12,954.80
27 15 13 00-0306 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	56,584.69	17,770.01
27 15 13 00-0307 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,287.03	734.14
27 15 13 00-0308 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,410.33	760.23
27 15 13 00-0309 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,530.46	786.33
27 15 13 00-0310 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,614.33	813.60
27 15 13 00-0311 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,744.48	868.16
27 15 13 00-0312 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,885.07	922.71
27 15 13 00-0313 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,110.43	1,031.83
27 15 13 00-0314 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,862.18	1,360.36
27 15 13 00-0315 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,305.02	2,009.11
27 15 13 00-0316 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,492.39	2,056.54
27 15 13 00-0317 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,295.83	2,394.56
27 15 13 00-0318 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,675.87	2,562.97
27 15 13 00-0319 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,928.08	3,203.41

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0320	MLF	100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,278.08	4,217.46
27 15 13 00-0321	MLF	250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	17,579.62	7,768.37
27 15 13 00-0322	MLF	500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	25,498.52	10,280.35
27 15 13 00-0323	MLF	750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	33,519.16	12,954.80
27 15 13 00-0324	MLF	1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	46,841.00	17,770.01
27 15 13 00-0325 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0001)				
27 15 13 00-0326	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,731.64	916.79
27 15 13 00-0327	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,947.09	950.00
27 15 13 00-0328	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,085.60	983.21
27 15 13 00-0329	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,267.26	1,016.42
27 15 13 00-0330	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,494.23	1,084.02
27 15 13 00-0331	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,718.84	1,152.80
27 15 13 00-0332	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,241.55	1,290.38
27 15 13 00-0333	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,218.51	1,699.55
27 15 13 00-0334	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,284.11	2,510.79
27 15 13 00-0335	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,517.37	806.49
27 15 13 00-0336	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,702.78	836.13
27 15 13 00-0337	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,822.75	865.79
27 15 13 00-0338	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,978.41	894.25
27 15 13 00-0339	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,174.37	954.74
27 15 13 00-0340	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,369.14	1,015.22
27 15 13 00-0341	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,819.31	1,135.02
27 15 13 00-0342	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,670.36	1,495.56
27 15 13 00-0343	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,466.44	2,209.54
27 15 13 00-0344	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,344.50	734.14
27 15 13 00-0345	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,504.51	760.23
27 15 13 00-0346	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,619.75	786.33
27 15 13 00-0347	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,820.67	813.60
27 15 13 00-0348	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,009.39	868.16
27 15 13 00-0349	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,351.92	922.71
27 15 13 00-0350	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,629.15	1,031.83
27 15 13 00-0351	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,343.79	1,360.36
27 15 13 00-0352	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,027.04	2,009.11
27 15 13 00-0353	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,294.86	2,056.54
27 15 13 00-0354	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,279.22	2,394.56
27 15 13 00-0355	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,733.86	2,562.97
27 15 13 00-0356	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,126.22	3,203.41
27 15 13 00-0357	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,973.56	4,217.46
27 15 13 00-0358	MLF	250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	21,168.40	7,768.37
27 15 13 00-0359	MLF	500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	31,834.24	10,280.35
27 15 13 00-0360	MLF	750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	42,549.72	12,954.80



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0361 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	59,878.15	17,768.82
27 15 13 00-0362 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,300.64	734.14
27 15 13 00-0363 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,418.81	760.23
27 15 13 00-0364 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,508.34	786.33
27 15 13 00-0365 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,653.09	813.60
27 15 13 00-0366 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit.....	1,806.72	868.16
27 15 13 00-0367 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,058.32	922.71
27 15 13 00-0368 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,301.47	1,031.83
27 15 13 00-0369 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,955.61	1,360.36
27 15 13 00-0370 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,422.08	2,009.11
27 15 13 00-0371 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,622.03	2,056.54
27 15 13 00-0372 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,454.70	2,394.56
27 15 13 00-0373 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,846.80	2,562.97
27 15 13 00-0374 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,121.64	3,203.41
27 15 13 00-0375 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,551.98	4,217.46
27 15 13 00-0376 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	18,159.68	7,768.37
27 15 13 00-0377 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	26,522.57	10,280.35
27 15 13 00-0378 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	34,979.04	12,954.80
27 15 13 00-0379 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	48,948.71	17,770.01
27 15 13 00-0380 Copper Telecommunications Cable (27 15 13)		
27 15 13 00-0381 Indoor Telecommunications Cable (27 15 13 00-0380) Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.		
27 15 13 00-0382 Category 3, Indoor Telecommunications Cable (27 15 13 00-0381) Note: Un-shielded twisted pair cables (UTP).		
27 15 13 00-0383 Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0382)		
27 15 13 00-0384 24 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0385 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0384)		
27 15 13 00-0386 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,019.34	545.12
27 15 13 00-0387 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,066.63	545.12
27 15 13 00-0388 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,083.34	545.12
27 15 13 00-0389 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,307.23	623.00
27 15 13 00-0390 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,655.34	623.00
27 15 13 00-0391 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,208.07	623.00
27 15 13 00-0392 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,512.70	778.74
27 15 13 00-0393 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	6,346.86	1,245.99
27 15 13 00-0394 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	8,583.45	1,401.74
27 15 13 00-0395 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	11,393.33	1,557.48
27 15 13 00-0396 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	16,660.73	2,180.48
27 15 13 00-0397 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	21,831.27	2,694.45
27 15 13 00-0398 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	34,574.57	3,737.96
27 15 13 00-0399 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	56,209.15	7,475.93
27 15 13 00-0400 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit.....	76,457.29	11,213.89
27 15 13 00-0401 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0384)		
27 15 13 00-0402 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	1,927.88 545.12	1,090.24
27 15 13 00-0403 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	1,975.17 545.12	1,090.24
27 15 13 00-0404 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	1,991.88 545.12	1,090.24
27 15 13 00-0405 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,085.97 545.12	1,090.24
27 15 13 00-0406 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	2,434.08 545.12	1,090.24

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0407 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	3,246.39	1,245.99
For Work In Restricted Working Space, Add	623.00	
27 15 13 00-0408 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	4,810.60	1,557.48
For Work In Restricted Working Space, Add	778.74	
27 15 13 00-0409 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	7,385.19	1,868.99
For Work In Restricted Working Space, Add	934.49	
27 15 13 00-0410 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	9,751.57	2,102.61
For Work In Restricted Working Space, Add	1,051.30	
27 15 13 00-0411 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	12,691.24	2,336.22
For Work In Restricted Working Space, Add	1,168.12	
27 15 13 00-0412 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	18,477.80	3,270.72
For Work In Restricted Working Space, Add	1,635.36	
27 15 13 00-0413 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	24,089.63	4,049.46
For Work In Restricted Working Space, Add	2,024.73	
27 15 13 00-0414 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	37,689.55	5,606.95
For Work In Restricted Working Space, Add	2,803.48	
27 15 13 00-0415 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	62,439.10	11,213.89
For Work In Restricted Working Space, Add	5,606.95	
27 15 13 00-0416 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	85,802.22	16,820.85
For Work In Restricted Working Space, Add	8,410.43	
27 15 13 00-0417 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0383)		
27 15 13 00-0418 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0417)		
27 15 13 00-0419 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,584.79	623.00
27 15 13 00-0420 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	5,340.08	778.74
27 15 13 00-0421 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	9,753.28	1,245.99
27 15 13 00-0422 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	17,326.65	1,557.48
27 15 13 00-0423 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	25,484.47	2,180.48
27 15 13 00-0424 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	33,196.05	2,694.45
27 15 13 00-0425 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	49,219.78	3,737.96
27 15 13 00-0426 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0417)		
27 15 13 00-0427 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	4,623.11	1,245.99
For Work In Restricted Working Space, Add	623.00	
27 15 13 00-0428 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	6,637.98	1,557.48
For Work In Restricted Working Space, Add	778.74	
27 15 13 00-0429 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	10,791.61	1,868.99
For Work In Restricted Working Space, Add	934.49	
27 15 13 00-0430 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	18,624.56	2,336.22
For Work In Restricted Working Space, Add	1,168.12	
27 15 13 00-0431 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	27,301.54	3,270.72
For Work In Restricted Working Space, Add	1,635.36	
27 15 13 00-0432 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	35,454.41	4,049.46
For Work In Restricted Working Space, Add	2,024.73	
27 15 13 00-0433 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	52,334.76	5,606.95
For Work In Restricted Working Space, Add	2,803.48	
27 15 13 00-0434 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0382)		
27 15 13 00-0435 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0434)		
27 15 13 00-0436 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0435)		
27 15 13 00-0437 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,057.58	545.12
27 15 13 00-0438 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,104.68	545.12
27 15 13 00-0439 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,139.90	545.12
27 15 13 00-0440 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,370.75	623.00
27 15 13 00-0441 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,750.21	623.00
27 15 13 00-0442 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,778.80	623.00
27 15 13 00-0443 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,674.66	778.74
27 15 13 00-0444 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	8,781.47	1,245.99
27 15 13 00-0445 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	15,208.51	1,557.48
27 15 13 00-0446 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	22,792.27	2,180.48
27 15 13 00-0447 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0435)		
27 15 13 00-0448 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	1,966.12	1,090.24
For Work In Restricted Working Space, Add	545.12	
27 15 13 00-0449 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,013.22	1,090.24
For Work In Restricted Working Space, Add	545.12	
27 15 13 00-0450 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,048.44	1,090.24
For Work In Restricted Working Space, Add	545.12	
27 15 13 00-0451 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,149.49	1,090.24
For Work In Restricted Working Space, Add	545.12	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0452	MLF	12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,528.95	1,090.24	
		For Work In Restricted Working Space, Add	545.12		
27 15 13 00-0453	MLF	25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	3,817.12	1,245.99	
		For Work In Restricted Working Space, Add	623.00		
27 15 13 00-0454	MLF	50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	5,972.56	1,557.48	
		For Work In Restricted Working Space, Add	778.74		
27 15 13 00-0455	MLF	100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	9,819.80	1,868.99	
		For Work In Restricted Working Space, Add	934.49		
27 15 13 00-0456	MLF	200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	16,506.42	2,336.22	
		For Work In Restricted Working Space, Add	1,168.12		
27 15 13 00-0457	MLF	300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	24,609.34	3,270.72	
		For Work In Restricted Working Space, Add	1,635.36		
27 15 13 00-0458	Category 5E, Indoor Telecommunications Cable (27 15 13 00-0381)				
27 15 13 00-0459	Category 5E, Indoor Telecommunications Riser Cable (27 15 13 00-0458)				
27 15 13 00-0460	Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0459)				
27 15 13 00-0461	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,095.52	545.12	
27 15 13 00-0462	MLF	4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,139.32	545.12	
27 15 13 00-0463	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,269.96	623.00	
27 15 13 00-0464	MLF	4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,313.74	623.00	
27 15 13 00-0465	Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0459)				
27 15 13 00-0466	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,004.06	1,090.24	
		For Work In Restricted Working Space, Add	545.12		
27 15 13 00-0467	MLF	4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,047.86	1,090.24	
		For Work In Restricted Working Space, Add	545.12		
27 15 13 00-0468	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,308.28	1,245.99	
		For Work In Restricted Working Space, Add	623.00		
27 15 13 00-0469	MLF	4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,352.06	1,245.99	
		For Work In Restricted Working Space, Add	623.00		
27 15 13 00-0470	Category 5E, Indoor Telecommunications Plenum Cable (27 15 13 00-0458)				
27 15 13 00-0471	Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0470)				
27 15 13 00-0472	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,256.58	545.12	
27 15 13 00-0473	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,728.61	623.00	
27 15 13 00-0474	Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0470)				
27 15 13 00-0475	MLF	4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,165.12	1,090.24	
		For Work In Restricted Working Space, Add	545.12		
27 15 13 00-0476	MLF	4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,766.93	1,245.99	
		For Work In Restricted Working Space, Add	623.00		
27 15 13 00-0477	Category 6, Indoor Telecommunications Cable (27 15 13 00-0381)				
27 15 13 00-0478	Category 6, Indoor Telecommunications Riser Cable (27 15 13 00-0477)				
27 15 13 00-0479	Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0478)				
27 15 13 00-0480	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,202.01	545.12	
27 15 13 00-0481	MLF	4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,234.82	545.12	
27 15 13 00-0482	Category 6, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0478)				
27 15 13 00-0483	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,110.55	1,090.24	
		For Work In Restricted Working Space, Add	545.12		
27 15 13 00-0484	MLF	4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,143.36	1,090.24	
		For Work In Restricted Working Space, Add	545.12		
27 15 13 00-0485	Category 6, Indoor Telecommunications Plenum Cable (27 15 13 00-0477)				
27 15 13 00-0486	Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0485)				
27 15 13 00-0487	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,430.25	545.12	
27 15 13 00-0488	Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0485)				
27 15 13 00-0489	MLF	4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,338.79	1,090.24	
		For Work In Restricted Working Space, Add	545.12		
27 15 13 00-0490	Category 6A, Indoor Telecommunications Cable (27 15 13 00-0381)				

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0491 Category 6a, Indoor Telecommunications Riser Cable ^(27 15 13 00-0490)		
27 15 13 00-0492 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit ^(27 15 13 00-0491)		
27 15 13 00-0493 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,254.44	545.12
27 15 13 00-0494 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed ^(27 15 13 00-0491)		
27 15 13 00-0495 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,162.98 545.12	1,090.24
27 15 13 00-0496 Category 6A, Indoor Telecommunications Plenum Cable ^(27 15 13 00-0490)		
27 15 13 00-0497 Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit ^(27 15 13 00-0496)		
27 15 13 00-0498 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,565.85	545.12
27 15 13 00-0499 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed ^(27 15 13 00-0496)		
27 15 13 00-0500 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,474.39 545.12	1,090.24
27 15 13 00-0501 Category 7, Indoor Telecommunications Cable ^(27 15 13 00-0381)		
27 15 13 00-0502 Category 7, Indoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0501)		
27 15 13 00-0503 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	2,371.84	623.00
27 15 13 00-0504 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	3,882.60	623.00
27 15 13 00-0505 Category 7, Indoor Telecommunications Cable, Installed Exposed ^(27 15 13 00-0501)		
27 15 13 00-0506 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,410.16 623.00	1,245.99
27 15 13 00-0507 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,920.92 623.00	1,245.99
27 15 13 00-0508 Outdoor Telecommunications Cable ^(27 15 13 00-0380) Note: Cable buried in trench excludes excavation.		
27 15 13 00-0509 PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0508) Note: Includes foam-skin polyolefin insulated conductors.		
27 15 13 00-0510 24 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0511 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0510)		
27 15 13 00-0512 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,050.31	623.00
27 15 13 00-0513 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	2,478.35	1,090.24
27 15 13 00-0514 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	3,530.21	700.87
27 15 13 00-0515 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	5,416.61	778.74
27 15 13 00-0516 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	7,681.73	1,090.24
27 15 13 00-0517 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	9,691.33	1,245.99
27 15 13 00-0518 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	16,785.58	1,401.74
27 15 13 00-0519 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	24,682.45	2,024.73
27 15 13 00-0520 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	32,712.33	2,647.73
27 15 13 00-0521 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	44,429.26	3,582.22
27 15 13 00-0522 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	69,868.68	7,164.43
27 15 13 00-0523 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit.....	95,341.21	10,590.90
27 15 13 00-0524 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0510)		
27 15 13 00-0525 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	1,855.62	
27 15 13 00-0526 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	2,283.66	
27 15 13 00-0527 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	3,270.62	
27 15 13 00-0528 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	5,157.03	
27 15 13 00-0529 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	7,292.35	
27 15 13 00-0530 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	9,042.37	
27 15 13 00-0531 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	16,526.01	
27 15 13 00-0532 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	23,903.71	
27 15 13 00-0533 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	31,089.95	
27 15 13 00-0534 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	41,573.87	
27 15 13 00-0535 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	62,081.26	
27 15 13 00-0536 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench.....	83,919.64	
27 15 13 00-0537 22 AWG, PE-89 Outdoor Telecommunications Cable ^(27 15 13 00-0509)		
27 15 13 00-0538 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0537)		



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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
27 15 13 00-0539	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,322.43		623.00
27 15 13 00-0540	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,986.74		623.00
27 15 13 00-0541	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,570.86		700.87
27 15 13 00-0542	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,268.84		778.74
27 15 13 00-0543	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	10,576.25		1,090.24
27 15 13 00-0544	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,626.37		1,245.99
27 15 13 00-0545	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	24,376.82		1,401.74
27 15 13 00-0546	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	35,509.08		2,024.73
27 15 13 00-0547	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	47,307.56		2,647.73
27 15 13 00-0548	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	69,917.12		3,582.22
27 15 13 00-0549	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	102,057.74		7,164.43
27 15 13 00-0550	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	143,499.01		10,590.90
27 15 13 00-0551 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0537)				
27 15 13 00-0552	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,127.74		
27 15 13 00-0553	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,792.05		
27 15 13 00-0554	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,311.27		
27 15 13 00-0555	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	7,009.26		
27 15 13 00-0556	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	10,186.87		
27 15 13 00-0557	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	13,236.99		
27 15 13 00-0558	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	24,117.25		
27 15 13 00-0559	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	34,730.34		
27 15 13 00-0560	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	45,685.18		
27 15 13 00-0561	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	67,061.73		
27 15 13 00-0562	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	94,270.32		
27 15 13 00-0563	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	132,077.44		
27 15 13 00-0564 19 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0509)				
27 15 13 00-0565 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0564)				
27 15 13 00-0566	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	7,778.96		700.87
27 15 13 00-0567	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	13,539.64		778.74
27 15 13 00-0568	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	21,730.85		1,090.24
27 15 13 00-0569	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	26,047.01		1,245.99
27 15 13 00-0570 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0564)				
27 15 13 00-0571	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	7,519.37		
27 15 13 00-0572	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	13,280.06		
27 15 13 00-0573	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	21,341.47		
27 15 13 00-0574	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	25,657.63		
27 15 13 00-0575 PE-39 Outdoor Telecommunications Cable (27 15 13 00-0508)				
Note: Includes solid polyolefin insulated conductors.				
27 15 13 00-0576 24 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)				
27 15 13 00-0577 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0576)				
27 15 13 00-0578	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,867.31		1,090.24
27 15 13 00-0579	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,390.97		1,090.24
27 15 13 00-0580	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,447.43		1,090.24
27 15 13 00-0581	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	6,349.91		1,090.24
27 15 13 00-0582	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	10,208.42		1,090.24
27 15 13 00-0583	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	18,561.80		1,401.74
27 15 13 00-0584	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,105.29		2,024.73
27 15 13 00-0585	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	35,664.54		2,647.73
27 15 13 00-0586	MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	48,739.72		3,582.22
27 15 13 00-0587	MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	75,443.16		7,164.43
27 15 13 00-0588	MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	109,799.17		10,590.90
27 15 13 00-0589 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0576)				
27 15 13 00-0590	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,477.93		
27 15 13 00-0591	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,001.59		
27 15 13 00-0592	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,058.05		
27 15 13 00-0593	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,960.53		
27 15 13 00-0594	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	9,819.04		
27 15 13 00-0595	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	18,302.23		
27 15 13 00-0596	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	26,326.55		
27 15 13 00-0597	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	34,042.16		
27 15 13 00-0598	MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	45,884.33		
27 15 13 00-0599	MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	67,655.74		
27 15 13 00-0600	MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	98,377.60		
27 15 13 00-0601 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0575)				

27	Communications
27 10	Structured Cabling
27 15	Communications Horizontal Cabling



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 15 13 00-0602	22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0601)		
27 15 13 00-0603	MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,170.06	1,090.24
27 15 13 00-0604	MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,939.55	1,090.24
27 15 13 00-0605	MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,577.08	1,090.24
27 15 13 00-0606	MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	8,589.54	1,090.24
27 15 13 00-0607	MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	14,876.15	1,090.24
27 15 13 00-0608	MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,544.74	1,401.74
27 15 13 00-0609	MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	40,365.22	2,024.73
27 15 13 00-0610	MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	51,702.17	2,647.73
27 15 13 00-0611	MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	72,238.53	3,582.22
27 15 13 00-0612	MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	113,493.18	7,164.43
27 15 13 00-0613	22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0601)		
27 15 13 00-0614	MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,780.68	
27 15 13 00-0615	MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,550.17	
27 15 13 00-0616	MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,187.70	
27 15 13 00-0617	MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	8,200.16	
27 15 13 00-0618	MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	14,486.77	
27 15 13 00-0619	MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	27,285.17	
27 15 13 00-0620	MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	39,586.48	
27 15 13 00-0621	MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	50,079.79	
27 15 13 00-0622	MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	69,383.14	
27 15 13 00-0623	MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	105,705.76	
27 15 13 00-0624	19 AWG, PE-39 Outdoor Telecommunications Cable ^(27 15 13 00-0575)		
27 15 13 00-0625	19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit ^(27 15 13 00-0624)		
27 15 13 00-0626	MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	9,204.57	1,090.24
27 15 13 00-0627	MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	15,314.24	1,090.24
27 15 13 00-0628	MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	27,983.54	1,090.24
27 15 13 00-0629	19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench ^(27 15 13 00-0624)		
27 15 13 00-0630	MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	8,815.19	
27 15 13 00-0631	MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	14,924.86	
27 15 13 00-0632	MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	27,594.16	
27 15 13 00-0633	(Aerial) Outdoor Telecommunications Cable ^(27 15 13 00-0508)		
	Note: Includes support wire.		
27 15 13 00-0634	24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0635	MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,265.97	2,178.63
27 15 13 00-0636	MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,701.68	2,178.63
27 15 13 00-0637	MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,783.46	2,178.63
27 15 13 00-0638	MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,786.36	2,178.63
27 15 13 00-0639	MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	15,654.93	2,178.63
27 15 13 00-0640	MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	23,843.14	2,396.50
27 15 13 00-0641	MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	32,079.21	2,614.36
27 15 13 00-0642	22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0643	MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,787.25	2,178.63
27 15 13 00-0644	MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,430.99	2,178.63
27 15 13 00-0645	MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,981.49	2,178.63
27 15 13 00-0646	MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,044.64	2,178.63
27 15 13 00-0647	MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	20,831.64	2,178.63
27 15 13 00-0648	MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	33,113.69	2,396.50
27 15 13 00-0649	19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles ^(27 15 13 00-0633)		
27 15 13 00-0650	MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,476.43	2,178.63
27 15 13 00-0651	MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,932.21	2,178.63
27 15 13 00-0652	MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	13,794.51	2,178.63
27 15 13 00-0653	MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	19,519.16	2,178.63
27 15 13 00-0654	MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	31,067.59	2,178.63
27 15 13 00-0655	Sound System Cables ^(27 15 13)		
	Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656	Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0655)		
27 15 13 00-0657	Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed ^(27 15 13 00-0656)		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0658	MLF	2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,970.15 498.13	830.21
27 15 13 00-0659	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,865.68 498.13	830.21
27 15 13 00-0660	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,785.10 498.13	830.21
27 15 13 00-0661	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,873.22 498.13	830.21
27 15 13 00-0662	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,156.44 498.13	830.21
27 15 13 00-0663	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,438.73 498.13	830.21
27 15 13 00-0664	MLF	4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,157.63 498.13	830.21
27 15 13 00-0665	MLF	4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,021.64 498.13	830.21
27 15 13 00-0666		Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0658)		
27 15 13 00-0667	MLF	2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,013.31 498.13	830.21
27 15 13 00-0668	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,893.13 498.13	830.21
27 15 13 00-0669	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,825.11 498.13	830.21
27 15 13 00-0670	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,938.62 498.13	830.21
27 15 13 00-0671	MLF	8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,178.41 498.13	830.21
27 15 13 00-0672	MLF	2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,151.96 498.13	830.21
27 15 13 00-0673	MLF	2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,985.73 498.13	830.21
27 15 13 00-0674	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,268.29 498.13	830.21
27 15 13 00-0675	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,550.07 498.13	830.21
27 15 13 00-0676	MLF	2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,859.22 498.13	830.21
27 15 13 00-0677	MLF	2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,915.36 498.13	830.21
27 15 13 00-0678		Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0655)		
27 15 13 00-0679		Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)		
27 15 13 00-0680	MLF	2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,139.94	415.11
27 15 13 00-0681	MLF	2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,035.47	415.11
27 15 13 00-0682	MLF	2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	954.89	415.11
27 15 13 00-0683	MLF	4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,043.01	415.11
27 15 13 00-0684	MLF	4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,326.23	415.11
27 15 13 00-0685	MLF	6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit	1,608.52	415.11
27 15 13 00-0686	MLF	4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,327.42	415.11
27 15 13 00-0687	MLF	4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit	1,191.43	415.11

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0688	Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)			
27 15 13 00-0689	MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,183.10	415.11	
27 15 13 00-0690	MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,062.92	415.11	
27 15 13 00-0691	MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	994.90	415.11	
27 15 13 00-0692	MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,108.41	415.11	
27 15 13 00-0693	MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,348.20	415.11	
27 15 13 00-0694	MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,321.75	415.11	
27 15 13 00-0695	MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,155.52	415.11	
27 15 13 00-0696	MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,438.08	415.11	
27 15 13 00-0697	MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,719.86	415.11	
27 15 13 00-0698	MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,085.15	415.11	
27 15 13 00-0699	MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,029.01	415.11	
27 15 23	Communications Optical Fiber Horizontal Cabling (27 15)			
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 23 00-0001	Indoor Fiber Optic Cable (27 15 23)			
Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.				
27 15 23 00-0002	Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)			
Note: Excludes conduit or innerduct.				
27 15 23 00-0003	Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)			
27 15 23 00-0004	Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)			
27 15 23 00-0005	Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)			
27 15 23 00-0006	MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,084.79	467.25	
27 15 23 00-0007	MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,177.03	467.25	
27 15 23 00-0008	MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,207.82	467.25	
27 15 23 00-0009	MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,317.50	467.25	
For Aluminum Armored Cable, Add		836.29		
For Steel Armored Cable, Add		1,656.58		
27 15 23 00-0010	MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,348.94	467.25	
27 15 23 00-0011	MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,539.02	467.25	
For Aluminum Armored Cable, Add		884.22		
For Steel Armored Cable, Add		1,743.68		
27 15 23 00-0012	MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,588.81	545.12	
27 15 23 00-0013	MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,604.16	545.12	
For Aluminum Armored Cable With Sub-Units, Add		1,742.52		
For Steel Armored Cable, Add		2,401.69		
27 15 23 00-0014	MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,375.82	545.12	
For Aluminum Armored Cable With Sub-Units, Add		1,836.94		
For Steel Armored Cable, Add		2,219.85		
27 15 23 00-0015	MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,525.49	545.12	
For Aluminum Armored Cable With Sub-Units, Add		1,927.32		
For Steel Armored Cable, Add		2,324.45		
27 15 23 00-0016	MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,469.29	545.12	
27 15 23 00-0017	MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,720.28	545.12	
27 15 23 00-0018	MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,040.47	545.12	
27 15 23 00-0019	MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,439.73	623.00	
27 15 23 00-0020	MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,240.03	623.00	
27 15 23 00-0021	50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)			
27 15 23 00-0022	MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,111.35	467.25	
27 15 23 00-0023	MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,232.82	467.25	
27 15 23 00-0024	MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,502.43	467.25	



Communications		27
Structured Cabling		27 10
Communications Horizontal Cabling		27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0025 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,786.23	467.25
For Aluminum Armored Cable, Add	876.82	
For Steel Armored Cable, Add	1,165.21	
27 15 23 00-0026 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,055.84	467.25
27 15 23 00-0027 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,609.25	467.25
For Aluminum Armored Cable, Add	833.93	
For Steel Armored Cable, Add	1,209.69	
27 15 23 00-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,880.94	545.12
27 15 23 00-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,881.73	545.12
For Aluminum Armored Cable With Sub-Units, Add	912.06	
For Steel Armored Cable, Add	912.06	
27 15 23 00-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,868.33	545.12
27 15 23 00-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,854.93	545.12
For Aluminum Armored Cable With Sub-Units, Add	1,627.59	
27 15 23 00-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,841.53	545.12
27 15 23 00-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,828.13	545.12
27 15 23 00-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,815.52	545.12
For Aluminum Armored Cable With Sub-Units, Add	7,009.86	
27 15 23 00-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,918.52	623.00
27 15 23 00-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	24,891.72	623.00
27 15 23 00-0037 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)		
27 15 23 00-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,127.98	467.25
27 15 23 00-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,255.52	467.25
27 15 23 00-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,538.61	467.25
27 15 23 00-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,836.60	467.25
27 15 23 00-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,119.70	467.25
27 15 23 00-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,700.78	467.25
27 15 23 00-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,979.56	545.12
27 15 23 00-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,080.39	545.12
27 15 23 00-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,166.32	545.12
27 15 23 00-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,252.25	545.12
27 15 23 00-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,338.18	545.12
27 15 23 00-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,424.11	545.12
27 15 23 00-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,610.87	545.12
27 15 23 00-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,912.53	623.00
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	26,084.39	623.00
27 15 23 00-0053 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)		
27 15 23 00-0054 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,939.66	467.25
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,283.65	467.25
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,040.41	467.25
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,401.56	467.25
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,861.98	467.25
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,197.21	545.12
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,782.39	545.12
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,926.91	545.12
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,377.78	545.12

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 15 23 00-0064	50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0063)		
27 15 23 00-0065	MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,315.93	467.25
27 15 23 00-0066	MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,800.60	467.25
27 15 23 00-0067	MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,599.71	467.25
27 15 23 00-0068	MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,787.42	467.25
27 15 23 00-0069	MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,280.63	467.25
27 15 23 00-0070	MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,047.12	545.12
27 15 23 00-0071	MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,827.09	545.12
27 15 23 00-0072	MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,044.05	545.12
27 15 23 00-0073	MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,268.81	545.12
27 15 23 00-0074	62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)		
27 15 23 00-0075	MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,392.79	467.25
27 15 23 00-0076	MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,901.70	467.25
27 15 23 00-0077	MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,740.76	467.25
27 15 23 00-0078	MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,987.85	467.25
27 15 23 00-0079	MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	5,505.73	467.25
27 15 23 00-0080	MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	7,354.05	545.12
27 15 23 00-0081	MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,223.02	545.12
27 15 23 00-0082	MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	10,500.83	545.12
27 15 23 00-0083	MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	15,986.82	545.12
27 15 23 00-0084	Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)		
27 15 23 00-0085	Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0086	Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0087	MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,088.60	467.25
27 15 23 00-0088	MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,093.28	467.25
27 15 23 00-0089	MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,338.75	467.25
27 15 23 00-0090	MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,367.47	467.25
	For Aluminum Armored Cable, Add	975.69	
	For Steel Armored Cable, Add	5,370.90	
27 15 23 00-0091	MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,512.07	467.25
27 15 23 00-0092	MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,539.12	467.25
	For Aluminum Armored Cable, Add	1,021.93	
	For Steel Armored Cable, Add	5,764.99	
27 15 23 00-0093	MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	3,387.41	545.12
27 15 23 00-0094	MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	4,316.99	545.12
	For Aluminum Armored Cable With Sub-Units, Add	927.38	
	For Steel Armored Cable, Add	6,052.59	
27 15 23 00-0095	MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,777.48	545.12
27 15 23 00-0096	MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	6,950.80	545.12
	For Aluminum Armored Cable With Sub-Units, Add	1,421.87	
	For Steel Armored Cable, Add	7,569.86	
27 15 23 00-0097	MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	8,361.28	545.12
27 15 23 00-0098	MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	9,867.23	545.12
27 15 23 00-0099	MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	12,996.90	545.12
27 15 23 00-0100	50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0101	MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,109.56	467.25
27 15 23 00-0102	MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	1,553.44	467.25
27 15 23 00-0103	MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit	2,028.03	467.25



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,512.13	467.25
For Aluminum Armored Cable, Add	153.66	
For Steel Armored Cable, Add	505.83	
27 15 23 00-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,976.00	467.25
27 15 23 00-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,379.03	467.25
For Aluminum Armored Cable, Add	40.15	
For Steel Armored Cable, Add	439.92	
27 15 23 00-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,302.08	545.12
27 15 23 00-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,744.45	545.12
For Aluminum Armored Cable With Sub-Units, Add	2,030.76	
For Steel Armored Cable, Add	4,736.32	
27 15 23 00-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,162.41	545.12
27 15 23 00-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,580.37	545.12
For Aluminum Armored Cable With Sub-Units, Add	6,030.26	
27 15 23 00-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,998.33	545.12
27 15 23 00-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,416.29	545.12
27 15 23 00-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	28,276.62	545.12
For Aluminum Armored Cable With Sub-Units, Add	12,060.52	
27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)		
27 15 23 00-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,126.10	467.25
27 15 23 00-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,592.18	467.25
27 15 23 00-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,090.49	467.25
27 15 23 00-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,598.80	467.25
27 15 23 00-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,085.86	467.25
27 15 23 00-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,509.04	467.25
27 15 23 00-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,471.75	545.12
27 15 23 00-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,086.25	545.12
27 15 23 00-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,675.10	545.12
27 15 23 00-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,263.96	545.12
27 15 23 00-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,852.82	545.12
27 15 23 00-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	22,441.68	545.12
27 15 23 00-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	29,645.03	545.12
27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)		
27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,991.66	467.25
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,410.18	467.25
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,416.32	467.25
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,402.37	467.25
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,976.08	467.25
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,920.77	545.12
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,254.37	545.12
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,218.89	545.12
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,455.57	545.12
27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,157.85	467.25
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,436.68	467.25

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,719.34	467.25
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,882.72	467.25
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,687.48	467.25
27 15 23 00-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,996.38	545.12
27 15 23 00-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,787.90	545.12
27 15 23 00-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,726.08	545.12
27 15 23 00-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	33,135.01	545.12
27 15 23 00-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)		
27 15 23 00-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,376.81	467.25
27 15 23 00-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,719.58	467.25
27 15 23 00-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,116.37	467.25
27 15 23 00-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,337.92	467.25
27 15 23 00-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,232.91	467.25
27 15 23 00-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,750.77	545.12
27 15 23 00-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,681.87	545.12
27 15 23 00-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,716.96	545.12
27 15 23 00-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	34,746.33	545.12
27 15 23 00-0159 Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001)		
Note: For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)		
27 15 23 00-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,344.38 311.50	623.00
27 15 23 00-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,436.62 311.50	623.00
27 15 23 00-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,467.41 311.50	623.00
27 15 23 00-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	1,577.09 836.29 1,656.58 311.50	623.00
27 15 23 00-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	1,608.53 311.50	623.00
27 15 23 00-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	1,798.61 884.22 1,743.68 311.50	623.00
27 15 23 00-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	2,848.40 350.44	700.87
27 15 23 00-0170 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable With Sub-Units, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	3,863.75 1,742.52 2,401.69 350.44	700.87
27 15 23 00-0171 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable With Sub-Units, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	4,635.41 1,836.94 2,219.85 350.44	700.87
27 15 23 00-0172 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Aluminum Armored Cable With Sub-Units, Add For Steel Armored Cable, Add For Work In Restricted Working Space, Add	4,785.08 1,927.32 2,324.45 350.44	700.87
27 15 23 00-0173 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	5,728.88 350.44	700.87
27 15 23 00-0174 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	5,979.87 350.44	700.87
27 15 23 00-0175 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed For Work In Restricted Working Space, Add	7,300.06 350.44	700.87



Communications			27
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0176 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,699.31 389.37	778.74
27 15 23 00-0177 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,499.61 389.37	778.74
27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,370.94 311.50	623.00
27 15 23 00-0180 MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,492.41 311.50	623.00
27 15 23 00-0181 MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,762.02 311.50	623.00
27 15 23 00-0182 MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,045.82 876.82 1,165.21 311.50	623.00
27 15 23 00-0183 MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,315.43 311.50	623.00
27 15 23 00-0184 MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,868.84 833.93 1,209.69 311.50	623.00
27 15 23 00-0185 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,140.53 350.44	700.87
27 15 23 00-0186 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,141.32 912.06 912.06 350.44	700.87
27 15 23 00-0187 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,127.92 350.44	700.87
27 15 23 00-0188 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,114.52 1,627.59 350.44	700.87
27 15 23 00-0189 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,101.12 350.44	700.87
27 15 23 00-0190 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,087.72 350.44	700.87
27 15 23 00-0191 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	17,075.11 7,009.86 350.44	700.87
27 15 23 00-0192 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	21,178.10 389.37	778.74
27 15 23 00-0193 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	25,151.30 389.37	778.74
27 15 23 00-0194 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)		
27 15 23 00-0195 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,387.57 311.50	623.00
27 15 23 00-0196 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,515.11 311.50	623.00
27 15 23 00-0197 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,798.20 311.50	623.00
27 15 23 00-0198 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,096.19 311.50	623.00
27 15 23 00-0199 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,379.29 311.50	623.00
27 15 23 00-0200 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,960.37 311.50	623.00
27 15 23 00-0201 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,239.15 350.44	700.87
27 15 23 00-0202 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,339.98 350.44	700.87
27 15 23 00-0203 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,425.91 350.44	700.87
27 15 23 00-0204 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,511.84 350.44	700.87

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0205 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,597.77	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0206 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,683.70	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0207 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,870.46	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0208 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	22,172.11	778.74
For Work In Restricted Working Space, Add	389.37	
27 15 23 00-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	26,343.97	778.74
For Work In Restricted Working Space, Add	389.37	
27 15 23 00-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)		
27 15 23 00-0211 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0212 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,199.25	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0213 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,543.24	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0214 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,300.00	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0215 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,661.15	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0216 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,121.57	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0217 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,456.80	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0218 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,041.98	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0219 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,186.50	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0220 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	13,637.37	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0221 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0222 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,575.52	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0223 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,060.19	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0224 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,859.30	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0225 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,047.01	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0226 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,540.22	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,306.71	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,086.68	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,303.64	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,528.40	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0210)		
27 15 23 00-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,652.38	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,161.29	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,000.35	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,247.44	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,765.32	623.00
For Work In Restricted Working Space, Add	311.50	
27 15 23 00-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,613.64	700.87
For Work In Restricted Working Space, Add	350.44	
27 15 23 00-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,482.61	700.87
For Work In Restricted Working Space, Add	350.44	



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Communications Horizontal Cabling			27 15

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0239	MLF		36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,760.42 350.44	700.87
27 15 23 00-0240	MLF		48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	16,246.41 350.44	700.87
27 15 23 00-0241			Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0159)		
27 15 23 00-0242			Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0241)		
27 15 23 00-0243			Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0242)		
27 15 23 00-0244	MLF		1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,348.19 311.50	623.00
27 15 23 00-0245	MLF		2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,352.87 311.50	623.00
27 15 23 00-0246	MLF		4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,598.34 311.50	623.00
27 15 23 00-0247	MLF		6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,627.06 975.69 5,370.90 311.50	623.00
27 15 23 00-0248	MLF		8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,771.66 311.50	623.00
27 15 23 00-0249	MLF		12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,798.71 1,021.93 5,764.99 311.50	623.00
27 15 23 00-0250	MLF		18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,647.00 350.44	700.87
27 15 23 00-0251	MLF		24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,576.58 927.38 6,052.59 350.44	700.87
27 15 23 00-0252	MLF		36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	7,037.07 350.44	700.87
27 15 23 00-0253	MLF		48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,210.39 1,421.87 7,569.86 350.44	700.87
27 15 23 00-0254	MLF		60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,620.87 350.44	700.87
27 15 23 00-0255	MLF		72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,126.82 350.44	700.87
27 15 23 00-0256	MLF		96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	13,256.49 350.44	700.87
27 15 23 00-0257			50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ^(27 15 23 00-0242)		
27 15 23 00-0258	MLF		1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,369.15 311.50	623.00
27 15 23 00-0259	MLF		2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	1,813.03 311.50	623.00
27 15 23 00-0260	MLF		4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,287.62 311.50	623.00
27 15 23 00-0261	MLF		6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,771.72 153.66 505.83 311.50	623.00
27 15 23 00-0262	MLF		8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,235.59 311.50	623.00
27 15 23 00-0263	MLF		12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,638.62 40.15 439.92 311.50	623.00
27 15 23 00-0264	MLF		18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,561.67 350.44	700.87
27 15 23 00-0265	MLF		24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,004.04 2,030.76 4,736.32 350.44	700.87

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0266	MLF		36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,422.00	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0267	MLF		48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,839.96	700.87
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	6,030.26	
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0268	MLF		60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	18,257.92	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0269	MLF		72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	21,675.88	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0270	MLF		96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	28,536.21	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
			<i>For Aluminum Armored Cable With Sub-Units, Add</i>	12,060.52	
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0271 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0242)					
27 15 23 00-0272	MLF		1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,385.69	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0273	MLF		2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,851.77	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0274	MLF		4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,350.08	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0275	MLF		6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,858.39	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0276	MLF		8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,345.45	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0277	MLF		12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,768.63	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0278	MLF		18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,731.34	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0279	MLF		24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,345.84	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0280	MLF		36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,934.69	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0281	MLF		48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	15,523.55	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0282	MLF		60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,112.41	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0283	MLF		72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	22,701.27	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0284	MLF		96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	29,904.62	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0285 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0241)					
27 15 23 00-0286 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0285)					
27 15 23 00-0287	MLF		2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,251.25	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0288	MLF		4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,669.77	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0289	MLF		6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,675.91	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0290	MLF		8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,661.96	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0291	MLF		12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,235.67	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0292	MLF		18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,180.36	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0293	MLF		24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,513.96	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0294	MLF		36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,478.48	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0295	MLF		48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	21,715.16	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed					
			(27 15 23 00-0285)		
27 15 23 00-0297	MLF		2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,417.44	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0298	MLF		4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,696.27	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0299	MLF		6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,978.93	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0300	MLF		8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,142.31	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0301	MLF		12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	11,947.07	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0302	MLF		18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	16,255.97	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0303	MLF		24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,047.49	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0304	MLF		36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	20,985.67	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0305	MLF		48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	33,394.60	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed					
			(27 15 23 00-0285)		
27 15 23 00-0307	MLF		2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,636.40	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0308	MLF		4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,979.17	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0309	MLF		6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,375.96	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0310	MLF		8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,597.51	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0311	MLF		12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	12,492.50	623.00
			<i>For Work In Restricted Working Space, Add</i>	311.50	
27 15 23 00-0312	MLF		18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	17,010.36	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0313	MLF		24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,941.46	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0314	MLF		36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	21,976.55	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0315	MLF		48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	35,005.92	700.87
			<i>For Work In Restricted Working Space, Add</i>	350.44	
27 15 23 00-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit					
			(27 15 23 00-0001)		
			Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit					
			(27 15 23 00-0316)		
27 15 23 00-0318	MLF		6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,528.34	467.25
27 15 23 00-0319	MLF		12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,542.13	467.25
27 15 23 00-0320	MLF		24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	5,793.54	545.12
27 15 23 00-0321	MLF		48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	9,088.15	545.12
27 15 23 00-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit					
			(27 15 23 00-0316)		
27 15 23 00-0323	MLF		6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,808.80	467.25

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,581.60	467.25
27 15 23 00-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	6,861.91	545.12
27 15 23 00-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	11,780.29	545.12
27 15 23 00-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001) Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		
27 15 23 00-0328 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0327)		
27 15 23 00-0329 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,787.93 311.50	623.00
27 15 23 00-0330 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,801.72 311.50	623.00
27 15 23 00-0331 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,053.13 350.44	700.87
27 15 23 00-0332 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,347.74 350.44	700.87
27 15 23 00-0333 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0327)		
27 15 23 00-0334 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,068.39 311.50	623.00
27 15 23 00-0335 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,841.19 311.50	623.00
27 15 23 00-0336 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,121.50 350.44	700.87
27 15 23 00-0337 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	12,039.88 350.44	700.87
27 15 23 00-0338 Outdoor Fiber Optic Cable (27 15 23) Note: Cable buried in trench excludes excavation.		
27 15 23 00-0339 Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0338) Note: Excludes conduit or innerduct.		
27 15 23 00-0340 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0339)		
27 15 23 00-0341 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0342 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,106.76 268.30	934.49
27 15 23 00-0343 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,140.17 270.53	934.49
27 15 23 00-0344 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,173.61 272.67	934.49
27 15 23 00-0345 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,207.04 275.29	934.49
27 15 23 00-0346 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,273.46 249.10	934.49
27 15 23 00-0347 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,409.32 277.53	934.49
27 15 23 00-0348 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,479.16 218.48	934.49
27 15 23 00-0349 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,500.71 255.38	934.49
27 15 23 00-0350 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,900.40 280.95	934.49
27 15 23 00-0351 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,120.75 280.93	934.49
27 15 23 00-0352 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,406.65 332.04	934.49
27 15 23 00-0353 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,909.97 318.79	934.49
27 15 23 00-0354 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,459.91 387.10	934.49
27 15 23 00-0355 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,035.48 259.12	934.49



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0356			50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0357	MLF		2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,940.24	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-4.02	
27 15 23 00-0358	MLF		4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,018.73	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	41.21	
27 15 23 00-0359	MLF		6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,183.16	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	106.57	
27 15 23 00-0360	MLF		8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,407.39	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-64.62	
27 15 23 00-0361	MLF		12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,500.82	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-34.32	
27 15 23 00-0362	MLF		18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,818.49	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-16.15	
27 15 23 00-0363	MLF		24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,491.18	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-87.85	
27 15 23 00-0364	MLF		36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,481.54	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	0.01	
27 15 23 00-0365	MLF		48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	6,584.01	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-200.97	
27 15 23 00-0366	MLF		60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,350.14	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-100.97	
27 15 23 00-0367	MLF		72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	8,340.50	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	464.14	
27 15 23 00-0368	MLF		96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,638.88	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-208.04	
27 15 23 00-0369	MLF		120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	12,918.57	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-278.22	
27 15 23 00-0370	MLF		144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	15,198.26	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	-330.75	
27 15 23 00-0371			62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0340)		
27 15 23 00-0372	MLF		2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,874.99	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	114.74	
27 15 23 00-0373	MLF		4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	1,985.30	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	123.04	
27 15 23 00-0374	MLF		6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,095.45	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	131.15	
27 15 23 00-0375	MLF		8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,231.51	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	149.30	
27 15 23 00-0376	MLF		12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,426.38	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	155.69	
27 15 23 00-0377	MLF		18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,770.89	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	165.93	
27 15 23 00-0378	MLF		24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,097.24	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	190.82	
27 15 23 00-0379	MLF		36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	3,721.83	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	212.05	
27 15 23 00-0380	MLF		48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	4,452.37	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	243.81	
27 15 23 00-0381	MLF		60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,127.13	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	262.35	
27 15 23 00-0382	MLF		72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	5,839.30	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	296.94	
27 15 23 00-0383	MLF		96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	7,279.69	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	333.87	
27 15 23 00-0384	MLF		120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	8,743.20	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	378.90	
27 15 23 00-0385	MLF		144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	10,229.30	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	348.05	
27 15 23 00-0386			Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0339)		
27 15 23 00-0387			Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)		
27 15 23 00-0388	MLF		2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,298.05	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	212.03	
27 15 23 00-0389	MLF		4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,363.19	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	304.32	
27 15 23 00-0390	MLF		6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,382.74	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	291.65	
27 15 23 00-0391	MLF		8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,460.76	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	242.79	
27 15 23 00-0392	MLF		12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,485.11	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	290.17	
27 15 23 00-0393	MLF		18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,594.46	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	275.21	
27 15 23 00-0394	MLF		24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit.....	2,692.51	934.49
			For Corrugated Coated Steel Tape Armored Cable, Add	278.47	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,848.92 353.13	934.49
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,069.28 357.74	934.49
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,288.78 370.62	934.49
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,586.37 318.80	934.49
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,067.73 415.76	934.49
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,697.49 409.39	934.49
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,212.83 327.02	934.49
27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,517.64 300.05	934.49
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,745.68 168.03	934.49
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,045.73 36.01	934.49
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,189.75 60.01	934.49
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,333.78 60.01	934.49
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,669.83 72.01	934.49
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,969.88 276.05	934.49
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,617.99 540.09	934.49
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,266.10 900.15	934.49
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,806.19 990.16	934.49
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,514.31 1,260.21	934.49
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,990.55 1,860.31	934.49
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,734.68 1,404.23	934.49
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,642.99 3,420.57	934.49
27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0396)		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,949.48 144.02	934.49
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,057.50 155.69	934.49
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,165.34 167.34	934.49
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,273.35 178.98	934.49
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,553.17 192.51	934.49
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,827.55 225.59	934.49
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,163.76 245.03	934.49
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,814.52 302.75	934.49
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,477.45 346.87	934.49
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,142.66 386.26	934.49
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,842.12 430.74	934.49
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,261.51 507.90	934.49
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,093.54 525.04	934.49
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,167.17 542.01	934.49
27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338)		
Note: Excludes trenching.		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
27 15 23 00-0433	Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0432)			
27 15 23 00-0434	Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)			
27 15 23 00-0435	MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,976.97 268.30		
27 15 23 00-0436	MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,010.38 270.53		
27 15 23 00-0437	MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,043.82 272.67		
27 15 23 00-0438	MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,077.25 275.29		
27 15 23 00-0439	MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,143.67 249.10		
27 15 23 00-0440	MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,279.53 277.53		
27 15 23 00-0441	MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,349.37 218.48		
27 15 23 00-0442	MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,370.92 255.38		
27 15 23 00-0443	MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,770.61 280.95		
27 15 23 00-0444	MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,271.89 280.93		
27 15 23 00-0445	MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,608.90 332.04		
27 15 23 00-0446	MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,780.18 318.79		
27 15 23 00-0447	MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,330.12 387.10		
27 15 23 00-0448	MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,905.69 259.12		
27 15 23 00-0449	50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)			
27 15 23 00-0450	MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,810.45 -4.02		
27 15 23 00-0451	MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,888.94 41.21		
27 15 23 00-0452	MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,053.37 106.57		
27 15 23 00-0453	MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,277.60 -64.62		
27 15 23 00-0454	MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,371.03 -34.32		
27 15 23 00-0455	MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,688.70 -16.15		
27 15 23 00-0456	MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,361.39 -87.85		
27 15 23 00-0457	MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,351.75 0.01		
27 15 23 00-0458	MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,454.22 -200.97		
27 15 23 00-0459	MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,220.35 -100.97		
27 15 23 00-0460	MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,210.71 464.14		
27 15 23 00-0461	MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,509.09 -208.04		
27 15 23 00-0462	MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,788.78 -278.22		
27 15 23 00-0463	MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	15,068.47 -330.75		
27 15 23 00-0464	62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0433)			
27 15 23 00-0465	MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,745.20 114.74		
27 15 23 00-0466	MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,855.51 123.04		
27 15 23 00-0467	MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,965.66 131.15		
27 15 23 00-0468	MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,101.72 149.30		
27 15 23 00-0469	MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,296.59 155.69		
27 15 23 00-0470	MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,641.10 165.93		
27 15 23 00-0471	MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,967.45 190.82		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0472	MLF	36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,592.04 212.05	
27 15 23 00-0473	MLF	48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,322.58 243.81	
27 15 23 00-0474	MLF	60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,997.34 262.35	
27 15 23 00-0475	MLF	72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,709.51 296.94	
27 15 23 00-0476	MLF	96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,149.90 333.87	
27 15 23 00-0477	MLF	120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,613.41 378.90	
27 15 23 00-0478	MLF	144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,099.51 348.05	
27 15 23 00-0479		Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0480		Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0481	MLF	2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,168.26 212.03	
27 15 23 00-0482	MLF	4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,233.40 304.32	
27 15 23 00-0483	MLF	6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,252.95 291.65	
27 15 23 00-0484	MLF	8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,330.97 242.79	
27 15 23 00-0485	MLF	12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,355.32 290.17	
27 15 23 00-0486	MLF	18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,464.67 275.21	
27 15 23 00-0487	MLF	24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,562.72 278.47	
27 15 23 00-0488	MLF	36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,719.13 353.13	
27 15 23 00-0489	MLF	48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,939.49 357.74	
27 15 23 00-0490	MLF	60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,158.99 370.62	
27 15 23 00-0491	MLF	72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,456.58 318.80	
27 15 23 00-0492	MLF	96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,937.94 415.76	
27 15 23 00-0493	MLF	120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,567.70 409.39	
27 15 23 00-0494	MLF	144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,083.04 327.02	
27 15 23 00-0495		50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ^(27 15 23 00-0479)		
27 15 23 00-0496	MLF	2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,387.85 300.05	
27 15 23 00-0497	MLF	4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,615.89 168.03	
27 15 23 00-0498	MLF	6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,915.94 36.01	
27 15 23 00-0499	MLF	8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,059.96 60.01	
27 15 23 00-0500	MLF	12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,203.99 60.01	
27 15 23 00-0501	MLF	18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,540.04 72.01	
27 15 23 00-0502	MLF	24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,840.09 276.05	
27 15 23 00-0503	MLF	36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,488.20 540.09	
27 15 23 00-0504	MLF	48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,136.31 900.15	
27 15 23 00-0505	MLF	60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,676.40 990.16	
27 15 23 00-0506	MLF	72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,384.52 1,260.21	
27 15 23 00-0507	MLF	96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,860.76 1,860.31	
27 15 23 00-0508	MLF	120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,604.89 1,404.23	
27 15 23 00-0509	MLF	144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,513.20 3,420.57	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0479)		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	1,819.69 144.02	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	1,927.71 155.69	
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,035.55 167.34	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,143.56 178.98	
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,423.38 192.51	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	2,697.76 225.59	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	3,033.97 245.03	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	3,684.73 302.75	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	4,347.66 346.87	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	5,012.87 386.26	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	5,712.33 430.74	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	7,131.72 507.90	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	8,643.94 525.04	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... For Corrugated Coated Steel Tape Armored Cable, Add	10,037.38 542.01	
27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0338)		
27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0525)		
27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles (27 15 23 00-0526)		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	9,933.65 179.45	3,457.55
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	9,966.84 184.10	3,457.55
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,000.47 188.62	3,457.55
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,033.66 185.01	3,457.55
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,100.07 215.69	3,457.55
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,231.20 224.23	3,457.55
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,331.22 247.84	3,457.55
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,569.00 237.64	3,457.55
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,776.95 276.08	3,457.55
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	10,948.85 264.74	3,457.55
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	11,163.29 302.68	3,457.55
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	11,726.10 307.42	3,457.55
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	12,329.93 366.83	3,457.55
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles For Corrugated Coated Steel Tape Armored Cable, Add	12,474.69 393.89	3,457.55
27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0338)		
Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	3,875.95	778.74
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	4,847.65	778.74
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	7,012.25	778.74
27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0542)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0548	MLF	12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,115.30	778.74
27 15 23 00-0549	MLF	24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	5,667.50	778.74
27 15 23 00-0550	MLF	48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit	8,082.98	778.74
27 15 23 00-0551		Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338) Note: Singlemode and multimode combination cable. Excludes trenching.		
27 15 23 00-0552		Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0553	MLF	12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	3,746.16	713.85
27 15 23 00-0554	MLF	24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,717.86	713.85
27 15 23 00-0555	MLF	48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	6,882.46	713.85
27 15 23 00-0556		Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0551)		
27 15 23 00-0557	MLF	12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	4,985.51	713.85
27 15 23 00-0558	MLF	24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	5,537.71	713.85
27 15 23 00-0559	MLF	48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench	7,953.19	713.85
27 15 23 00-0560		Network Communications Cabling And Related Products (27 15 23)		
27 15 23 00-0561	EA	AC Surge Suppression Assembly	521.36	16.22
		Note: Liebert AccuVar Transient Voltage Surge Protection (TVSS) device or Atlantic Scientific Zone Defender Pro Model # 16100. Includes testing.		
27 15 23 00-0562	EA	Single Mode Fiber Optic To Ethernet Media Converter	879.86	19.47
		Note: Transition Networks part no. J/E-PSW-FX-02(SM). Includes testing.		
27 15 23 00-0563	EA	6' Long Single Mode Patch Cord With SC duplex Connectors At Both Ends	46.55	2.08
		Note: Includes testing.		
27 15 23 00-0564	EA	KVM (Keyboard, Video, Mouse) Cable	106.28	2.60
		Note: Raritan CCP40. Includes testing.		
27 15 23 00-0565	EA	6' Long USB (Universal Serial Bus) Cable	15.78	2.08
		Note: Includes testing.		
27 15 23 00-0566	EA	10' Long USB (Universal Serial Bus) Cable	18.70	2.60
		Note: Includes testing.		
27 15 23 00-0567	EA	6' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	20.47	2.08
		Note: Includes testing.		
27 15 23 00-0568	EA	10' Long Category 6 Patch Cables With A RJ-45 Connectors At Each End	23.40	2.60
		Note: Includes testing.		
27 15 23 00-0569	EA	6' Long Single Mode Patch Cord With SC Connectors At Both Ends	34.23	2.08
		Note: Includes testing.		
27 15 23 00-0570	EA	20' Long Single Mode Patch Cord With SC Duplex Connectors At Both Ends	74.47	2.60
		Note: Includes testing.		
27 15 23 00-0571	EA	6' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	59.21	2.08
		Note: Includes testing.		
27 15 23 00-0572	EA	20' Long Single Mode Patch Cord With SC Duplex Connector At One End And SC Connectors At The Other	74.47	2.60
		Note: Includes testing.		
27 15 23 00-0573	EA	6' Long Single Mode Patch Cord With SC Duplex Connector At One End And FC Connectors At The Other	111.12	2.08
		Note: Includes testing.		
27 15 23 00-0574	EA	6' Long Single Mode Patch Cord With SC Connectors At One End And FC Connectors At The Other	111.12	2.08
		Note: Includes testing.		
27 15 23 00-0575	LF	6 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	1.12	
		Note: Corning part no. 006ESF-T4101D20. Includes testing.		
27 15 23 00-0576	LF	12 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	7.91	
		Note: Corning part no. 012ESF-T4101D20. Includes testing.		
27 15 23 00-0577	LF	24 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	9.65	
		Note: Corning part no. 024EW4-T4101D20. Includes testing.		
27 15 23 00-0578	LF	72 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	15.88	
		Note: Corning part no. 072EW4-T4101D20. Includes testing.		
27 15 23 00-0579	LF	144 Strand Dielectric Indoor / Outdoor Fiber Optic Cable	24.82	
		Note: Corning part no. 144EW4-T4101D20. Includes testing.		
27 15 23 00-0580	LF	36 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable	15.96	
		Note: Corning part no. 036E81-61131-24. Includes testing.		
27 15 23 00-0581	LF	72 Strand Dielectric Indoor Plenum Rated Fiber Optic Cable	24.97	
		Note: Corning part no. 072E81-T3131-24. Includes testing.		
27 15 23 00-0582	EA	Aerial Storage Unit	138.65	12.98
		Note: Alcola part no. FSU-16. Includes testing.		
27 15 23 00-0583	EA	Spider Fan-Out Kits With SC Connectors	169.52	12.98
		Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0584	LF	Ultraviolet Resistant Rated Category 6 Cable	1.52	0.24
		Note: Includes RJ 45 connectors at both ends. CommScope part no. 6NF4+. Includes testing.		
27 15 23 00-0585	LF	RG11 Coaxial Cable NEC CMR	5.28	2.44
		Note: Corning part no. SFK-P-12-900-S.		
27 15 23 00-0586	LF	Outdoor Rated UL Type CL2	5.37	
		Note: Aluminum foil-polyester tape 100% shield coverage twisted (6 twists per foot) single pair 19 X 27 stranding tin copper coated #14 AWG conductor Audio, Control, and Instrumentation Cable with polyethylene insulation and PVC jacket. Belden 8720. Includes testing.		



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0587	LF	Indoor Plenum Rated UL Type CMP Note: 100% aluminum foil shield coverage twisted (6 twists per foot) 4 pairs 7X32 stranding tin copper coated #24 AWG conductor Computer Cable with Fluorinated Ethylene Propylene insulation and plenum rated jacket. Belden 82504. Includes testing.	7.81	2.44
27 15 33 Communications Coaxial Horizontal Cabling (27 15)				
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 33 00-0001		Indoor Coaxial Cable (27 15 33)		
27 15 33 00-0002		Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)		
27 15 33 00-0003		Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0002)		
27 15 33 00-0004	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,909.23	545.12
27 15 33 00-0005	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	4,763.55	545.12
27 15 33 00-0006	MLF	RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,520.21	623.00
27 15 33 00-0007	MLF	RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120)	6,017.74	623.00
27 15 33 00-0008		Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0002)		
27 15 33 00-0009	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108)..... For Work In Restricted Working Space, Add	2,817.77 545.12	1,090.24
27 15 33 00-0010	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108)..... For Work In Restricted Working Space, Add	5,672.09 545.12	1,090.24
27 15 33 00-0011	MLF	RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114)..... For Work In Restricted Working Space, Add	2,558.53 623.00	1,245.99
27 15 33 00-0012	MLF	RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120)..... For Work In Restricted Working Space, Add	7,056.06 623.00	1,245.99
27 15 33 00-0013		Coaxial Distribution Cable (27 15 33 00-0001)		
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.				
27 15 33 00-0014	MLF	RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	3,257.80	379.52
27 15 33 00-0015	MLF	RG-6A/U Coaxial Distribution Cable, Installed In Conduit	12,859.38	379.52
27 15 33 00-0016	MLF	RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	6,617.14	400.88
27 15 33 00-0017	MLF	RG-8A/U Coaxial Distribution Cable, Installed In Conduit	8,420.73	400.88
27 15 33 00-0018	MLF	RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	7,396.61	474.41
27 15 33 00-0019	MLF	RG-11A/U Coaxial Distribution Cable, Installed In Conduit	10,884.61	474.41
27 15 33 00-0020	MLF	RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	23,829.22	664.16
27 15 33 00-0021	MLF	RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	2,361.54	332.08
27 15 33 00-0022	MLF	RG-58A/U Coaxial Distribution Cable, Installed In Conduit	2,718.93	332.08
27 15 33 00-0023	MLF	RG-58C/U Coaxial Distribution Cable, Installed In Conduit	3,348.50	332.08
27 15 33 00-0024	MLF	RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	8,290.98	664.16
27 15 33 00-0025	MLF	RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	4,031.25	332.08
27 15 33 00-0026	MLF	RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	10,164.20	664.16
27 15 33 00-0027	MLF	1/2" Hard Line Coaxial, Installed In Conduit	3,221.25	474.41
27 15 33 00-0028		Outdoor Coaxial Cable (27 15 33)		
27 15 33 00-0029		Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00-0028)		
Note: Corrugated steel armor jacket.				
27 15 33 00-0030	MLF	TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	8,413.25	1,775.70
27 15 33 00-0031	MLF	TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial	5,161.04	1,248.99
27 15 33 00-0032	MLF	TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial	4,713.15	736.87
27 15 33 00-0033	MLF	TV Coaxial Cable Drop 1/4" Diameter, Direct Burial	2,209.65	736.87
27 15 33 00-0034	MLF	1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	3,245.93	1,151.38
27 15 43 Communications Faceplates and Connectors (27 15)				
27 15 43 00-0001		Wall Mounted Telephone Faceplates (27 15 43)		
Note: Includes standard telephone mounting studs.				
27 15 43 00-0002		Plastic Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0003	EA	Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones.....	43.07	16.22
27 15 43 00-0004		Stainless Steel Faceplates For Wall Mounted Telephones (27 15 43 00-0001)		
27 15 43 00-0005	EA	Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	36.75	6.49
27 15 43 00-0006	EA	Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	64.56	16.22
27 15 43 00-0007	EA	Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	75.22	19.47
27 15 43 00-0008	EA	Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones..... Note: Requires one snap-in modular jack.	35.37	6.49
27 15 43 00-0009	EA	Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	58.69	16.22
27 15 43 00-0010	EA	Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones	69.51	19.47

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0011		Plastic Communications Faceplates (27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.				
27 15 43 00-0012	EA	One Port, Single Gang, Plastic Communication Faceplate With Station ID	10.32	3.25
27 15 43 00-0013	EA	Two Port, Single Gang, Plastic Communication Faceplate With Station ID	10.32	3.25
27 15 43 00-0014	EA	Three Port, Single Gang, Plastic Communication Faceplate With Station ID	10.32	3.25
27 15 43 00-0015	EA	Four Port, Single Gang, Plastic Communication Faceplate With Station ID	10.32	3.25
27 15 43 00-0016	EA	Six Port, Single Gang, Plastic Communication Faceplate With Station ID	10.32	3.25
27 15 43 00-0017	EA	Four Port, Double Gang, Plastic Communications Faceplate With Station ID	17.80	3.25
27 15 43 00-0018	EA	Six Port, Double Gang, Plastic Communication Faceplate With Station ID	17.80	3.25
27 15 43 00-0019	EA	Eight Port, Double Gang, Plastic Communication Faceplate With Station ID	17.80	3.25
27 15 43 00-0020	EA	Nine Port, Double Gang, Plastic Communication Faceplate With Station ID	17.80	3.25
27 15 43 00-0021	EA	Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID	17.80	3.25
27 15 43 00-0022		Stainless Steel Communications Faceplates (27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.				
27 15 43 00-0023		Stainless Steel Communications Faceplates (27 15 43 00-0022)		
27 15 43 00-0024	EA	One Port, Single Gang, Stainless Steel Communications Faceplate	19.58	3.25
27 15 43 00-0025	EA	Two Port, Single Gang, Stainless Steel Communications Faceplate	19.58	3.25
27 15 43 00-0026	EA	Three Port, Single Gang, Stainless Steel Communications Faceplate	19.58	3.25
27 15 43 00-0027	EA	Four Port, Single Gang, Stainless Steel Communications Faceplate	20.93	3.25
27 15 43 00-0028	EA	Six Port, Single Gang, Stainless Steel Communications Faceplate	20.93	3.25
27 15 43 00-0029	EA	Four Port, Double Gang, Stainless Steel Communications Faceplate	28.24	3.25
27 15 43 00-0030	EA	Six Port, Double Gang, Stainless Steel Communications Faceplate	29.09	3.25
27 15 43 00-0031	EA	Eight Port, Double Gang, Stainless Steel Communications Faceplate	33.67	3.25
27 15 43 00-0032	EA	Nine Port, Double Gang, Stainless Steel Communication Faceplate	33.67	3.25
27 15 43 00-0033	EA	Twelve Port, Double Gang, Stainless Steel Communications Faceplate	33.67	3.25
27 15 43 00-0034		Stainless Steel Communications Faceplates With Station ID (27 15 43 00-0022)		
27 15 43 00-0035	EA	One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	28.07	3.25
27 15 43 00-0036	EA	Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	28.07	3.25
27 15 43 00-0037	EA	Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	28.07	3.25
27 15 43 00-0038	EA	Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	28.07	3.25
27 15 43 00-0039	EA	Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID	28.07	3.25
27 15 43 00-0040	EA	Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	60.50	3.25
27 15 43 00-0041	EA	Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	60.50	3.25
27 15 43 00-0042	EA	Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	60.50	3.25
27 15 43 00-0043	EA	Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID	60.50	3.25
27 15 43 00-0044	EA	Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID	60.50	3.25
27 15 43 00-0045		Surface Mount Plastic Communication Boxes (27 15 43)		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0051 for modular jacks.				
27 15 43 00-0046	EA	One Port, Surface Mount Plastic Communication Box With Station ID	37.36	16.26
27 15 43 00-0047	EA	Two Port, Surface Mount Plastic Communication Box With Station ID	38.21	16.26
27 15 43 00-0048	EA	Four Port, Surface Mount Plastic Communication Box With Station ID	44.07	16.26
27 15 43 00-0049	EA	Six Port, Surface Mount Plastic Communication Box With Station ID	51.03	16.26
27 15 43 00-0050	EA	Twelve Port, Surface Mount Plastic Communication Box With Station ID	58.33	16.26
27 15 43 00-0051		Snap-In Modular Jacks (27 15 43)		
Note: Includes termination.				
27 15 43 00-0052	EA	Cat 3, Snap-In Modular Jack	35.70	13.01
27 15 43 00-0053	EA	Category 5E, Snap-In Modular Jack	37.57	13.01
27 15 43 00-0054	EA	Category 5E Shielded, Snap-In Modular Jack	43.17	13.01
27 15 43 00-0055	EA	Cat 6, Snap-In Modular Jack	43.17	13.01
27 15 43 00-0056	EA	Cat 6 Shielded, Snap-In Modular Jack	49.45	13.01
27 15 43 00-0057	EA	Cat 6A, Snap-In Modular Jack	50.41	13.01
27 15 43 00-0058	EA	Voice, RJ-11, Snap-In Modular Jack	25.97	6.50
27 15 43 00-0059	EA	SC Type Fiber Optic, Snap-In Modular Jack	39.95	13.01
27 15 43 00-0060	EA	ST Type Fiber Optic, Snap-In Modular Jack	44.70	13.01
27 15 43 00-0061	EA	LC Type Fiber Optic, Snap-In Modular Jack	54.04	13.01
27 15 43 00-0062	EA	Blank Fill In, Snap-In Modular Jack	7.38	3.25
27 15 43 00-0063	EA	Open Cable Pass Through Insert, Snap-In Modular Jack	8.78	3.25
27 15 43 00-0064	EA	Coaxial F-Type Coupler, Snap-In Modular Jack	29.87	9.75
Note: Includes female to female connection.				
For Gold Bulkhead, Add			1.81	
27 15 43 00-0065	EA	RCA Jack Pass-Through Coupler, Snap-In Modular Jack	30.21	9.75
Note: Includes female to female connection.				
27 15 43 00-0066	EA	RCA Solder Coupler, Snap-In Modular Jack	60.02	13.01
27 15 43 00-0067	EA	RCA Jack With 110 Punch Down, Snap-In Modular Jack	73.78	13.01
27 15 43 00-0068	EA	3.5 m Mini Stereo Jack, Snap-In Modular Jack	37.06	13.01
27 15 43 00-0069	EA	MT-RJ Pass-Through Coupler, Snap-In Modular Jack	39.30	6.50
27 15 43 00-0070	EA	BNC Connector, Snap-In Modular Jack	42.66	13.01
27 15 43 00-0071	EA	S-Video With 110 Punch Down, Snap-In Modular Jack	47.76	13.01
27 15 43 00-0072	PR	Speaker Connectors, Snap-In Modular Jack	66.58	19.51
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.				
27 15 43 00-0073	EA	USB Audio Video Connector, Snap-In Modular Jack	71.19	13.01



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
27 15 53 Communications Cable Innerduct (27 15)				
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 53 00-0001	Indoor Innerduct	(27 15 53)		
27 15 53 00-0002	Indoor Innerduct, Installed In Conduit	(27 15 53 00-0001)		
27 15 53 00-0003	Riser Rated, Indoor Innerduct, Installed In Conduit	(27 15 53 00-0002)		
27 15 53 00-0004	MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit		5,127.68	1,946.86
27 15 53 00-0005	MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit		6,635.62	2,595.81
27 15 53 00-0006	MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit		8,826.17	3,244.77
27 15 53 00-0007	MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit		10,307.86	3,893.72
27 15 53 00-0008	Plenum Rated, Indoor Innerduct, Installed In Conduit	(27 15 53 00-0002)		
27 15 53 00-0009	MLF 3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit		7,590.66	1,297.91
27 15 53 00-0010	MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit		8,502.02	1,946.86
27 15 53 00-0011	MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit		10,741.19	2,595.81
27 15 53 00-0012	MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit		13,803.98	3,244.77
27 15 53 00-0013	MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit		16,611.84	3,893.72
27 15 53 00-0014	Indoor Innerduct, Installed Exposed	(27 15 53 00-0001)		
27 15 53 00-0015	Riser Rated, Indoor Innerduct, Installed Exposed	(27 15 53 00-0014)		
27 15 53 00-0016	MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed		6,425.58	2,595.81
	For Work In Restricted Working Space, Add		1,557.49	
27 15 53 00-0017	MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed		7,933.52	3,244.77
	For Work In Restricted Working Space, Add		1,946.86	
27 15 53 00-0018	MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed		10,124.08	3,893.72
	For Work In Restricted Working Space, Add		2,336.23	
27 15 53 00-0019	MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed		11,605.76	4,542.67
	For Work In Restricted Working Space, Add		2,725.60	
27 15 53 00-0020	Plenum Rated, Indoor Innerduct, Installed Exposed	(27 15 53 00-0014)		
27 15 53 00-0021	MLF 3/4" Plenum Rated, Indoor Innerduct, Installed Exposed		8,888.57	1,946.86
27 15 53 00-0022	MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed		9,799.92	2,595.81
	For Work In Restricted Working Space, Add		1,557.49	
27 15 53 00-0023	MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed		12,039.09	3,244.77
	For Work In Restricted Working Space, Add		1,946.86	
27 15 53 00-0024	MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed		15,101.89	3,893.72
	For Work In Restricted Working Space, Add		2,336.23	
27 15 53 00-0025	MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed		17,909.74	4,542.67
	For Work In Restricted Working Space, Add		2,725.60	
27 15 53 00-0026	Outdoor Innerduct	(27 15 53)		
27 15 53 00-0027	Outdoor Innerduct, Installed In Conduit	(27 15 53 00-0026)		
27 15 53 00-0028	MLF 1" Outdoor Innerduct, Installed In Conduit		4,812.63	1,946.86
27 15 53 00-0029	MLF 1-1/4" Outdoor Innerduct, Installed In Conduit		6,171.03	2,595.81
27 15 53 00-0030	MLF 1-1/2" Outdoor Innerduct, Installed In Conduit		7,886.78	3,244.77
27 15 53 00-0031	MLF 2" Outdoor Innerduct, Installed In Conduit		9,418.88	3,893.72
27 15 53 00-0032	Outdoor Innerduct, Buried In Trench	(27 15 53 00-0026)		
27 15 53 00-0033	MLF 1" Outdoor Innerduct, Buried In Trench		3,514.72	
27 15 53 00-0034	MLF 1-1/4" Outdoor Innerduct, Buried In Trench		4,873.13	
27 15 53 00-0035	MLF 1-1/2" Outdoor Innerduct, Buried In Trench		6,588.88	
27 15 53 00-0036	MLF 2" Outdoor Innerduct, Buried In Trench		8,120.97	
27 16 Communications Connecting Cords, Devices, and Adapters (27 10)				
27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)				
27 16 16 00-0001	Fiber Optic Receivers	(27 16 16)		
27 16 16 00-0002	EA Fiber Optic Receiver, Range 6.2 Miles		990.62	64.89
27 16 16 00-0003	EA Fiber Optic MM Dual Video Receiver, Manual Gain		1,170.47	127.83
	Note: With video presence Ind, RM.			
27 16 16 00-0004	Fiber Optic Transmitters	(27 16 16)		
27 16 16 00-0005	EA Fiber Optic Transmitter, Range 6.2 Miles		990.61	64.89
27 16 16 00-0006	EA Fiber Optic MM Dual Video Transmitter Video Presence Indicator		1,170.47	127.83
27 16 16 00-0007	Fiber Optic Repeaters	(27 16 16)		
	Note: Consist of transmitter and receiver, back-to-back. Excludes power source.			
27 16 16 00-0008	EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power		1,120.40	129.79

27 Communications**27 10 Structured Cabling****27 16 Communications Connecting Cords, Devices, and Adapters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 16 00-0009 EA Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power	1,760.66	259.58
27 16 16 00-0010 Fiber Optic Transceivers (27 16 16)		
27 16 16 00-0011 EA Fiber Optic Transceivers, 3,000 Miles Range	1,176.73	259.58
27 16 16 00-0012 EA Fiber Optic Transceivers, Digital 2,000 Miles Range	1,176.73	259.58
27 16 16 00-0013 EA Fiber Optic Ethernet Transceiver	1,544.88	389.38
27 16 16 00-0014 EA Transceiver (Low Cost Bi- Directional).....	558.93	97.34
27 16 19 Communications Patch Cords, Station Cords, and Cross Connect Wire (27 16)		
27 16 19 00-0001 Cross Connect Wire (27 16 19)		
Note: Up to 20' length.		
27 16 19 00-0002 EA 2-Pair Cross Connect Wire	20.70	
27 16 19 00-0003 EA 3-Pair Cross Connect Wire	27.71	
27 16 19 00-0004 EA 4-Pair Cross Connect Wire	34.66	
27 16 19 00-0005 Fiber Optic Patch Cords (27 16 19)		
27 16 19 00-0006 Simplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0007 Singlemode, Simplex Fiber Optic Patch Cables (27 16 19 00-0006)		
27 16 19 00-0008 EA ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	58.01	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0009 EA ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	47.13	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0010 EA ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	61.27	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0011 EA SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	49.62	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0012 EA SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable	57.56	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0013 EA LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	56.68	
For Each Additional Meter In Length, Add	0.26	
27 16 19 00-0014 Duplex Fiber Optic Patch Cables (27 16 19 00-0005)		
27 16 19 00-0015 Singlemode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0016 EA ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	101.73	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0017 EA ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	98.67	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0018 EA ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	109.56	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0019 EA SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	84.98	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0020 EA SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	100.83	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0021 EA LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable	99.09	
For Each Additional Meter In Length, Add	0.51	
27 16 19 00-0022 Multimode, Duplex Fiber Optic Patch Cables (27 16 19 00-0014)		
27 16 19 00-0023 EA ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	76.59	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0024 EA ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	83.70	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0025 EA ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	84.43	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0026 EA ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	86.71	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0027 EA SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	76.89	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0028 EA SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	87.11	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0029 EA SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable	102.53	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0030 EA MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	70.34	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0031 EA LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	85.78	
For Each Additional Meter In Length, Add	1.48	
27 16 19 00-0032 Fiber Optic Cable Pig Tail (27 16 19)		
27 16 19 00-0033 EA Simplex Fiber Optic Cable Pig Tail	89.82	45.43
27 16 19 00-0034 EA Duplex Fiber Optic Cable Pig Tail	115.62	45.43
27 16 19 00-0035 Ethernet Patch Cords (27 16 19)		
27 16 19 00-0036 EA 3' Category 5E Patch Cables With Boots.....	16.24	



Communications		27	27
Structured Cabling		27 10	
Communications Connecting Cords, Devices, and Adapters		27 16	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 16 19 00-0037	EA		5' Category 5E Patch Cables With Boots.....	17.68	
27 16 19 00-0038	EA		7' Category 5E Patch Cables With Boots.....	19.14	
27 16 19 00-0039	EA		10' Category 5E Patch Cables With Boots.....	27.88	
27 16 19 00-0040	EA		15' Category 5E Patch Cables With Boots.....	35.06	
27 16 19 00-0041	EA		25' Category 5E Patch Cables With Boots.....	46.06	
27 16 19 00-0042	EA		3' Category 6 Patch Cables With Boots.....	17.96	
27 16 19 00-0043	EA		5' Category 6 Patch Cables With Boots.....	21.62	
27 16 19 00-0044	EA		7' Category 6 Patch Cables With Boots.....	21.70	
27 16 19 00-0045	EA		10' Category 6 Patch Cables With Boots.....	26.13	
27 16 19 00-0046	EA		15' Category 6 Patch Cables With Boots.....	34.51	
27 16 19 00-0047	EA		25' Category 6 Patch Cables With Boots.....	43.09	
27 16 19 00-0048	EA		50' Category 6 Patch Cables With Boots.....	67.20	
27 16 19 00-0049	EA		100' Category 6 Patch Cables With Boots.....	117.00	
27 16 19 00-0050	EA		3' Category 6A Patch Cables With Boots.....	20.87	
27 16 19 00-0051	EA		5' Category 6A Patch Cables With Boots.....	22.06	
27 16 19 00-0052	EA		7' Category 6A Patch Cables With Boots.....	22.95	
27 16 19 00-0053	EA		10' Category 6A Patch Cables With Boots.....	27.53	
27 16 19 00-0054	EA		15' Category 6A Patch Cables With Boots.....	34.04	
27 16 19 00-0055	EA		25' Category 6A Patch Cables With Boots.....	41.69	
27 16 19 00-0056	EA		50' Category 6A Patch Cables With Boots.....	58.87	
27 16 19 00-0057	EA		100' Category 6A Patch Cables With Boots.....	102.34	
27 16 19 00-0058	EA		3' Category 5E Patch Cables With Plastic Arch.....	16.24	
27 16 19 00-0059	EA		5' Category 5E Patch Cables With Plastic Arch.....	17.68	
27 16 19 00-0060	EA		7' Category 5E Patch Cables With Plastic Arch.....	19.14	
27 16 19 00-0061	EA		10' Category 5E Patch Cables With Plastic Arch.....	27.88	
27 16 19 00-0062	EA		15' Category 5E Patch Cables With Plastic Arch.....	35.06	
27 16 19 00-0063	EA		25' Category 5E Patch Cables With Plastic Arch.....	46.06	
27 16 19 00-0064	EA		3' Category 6 Patch Cables With Plastic Arch.....	17.96	
27 16 19 00-0065	EA		5' Category 6 Patch Cables With Plastic Arch.....	21.62	
27 16 19 00-0066	EA		7' Category 6 Patch Cables With Plastic Arch.....	21.70	
27 16 19 00-0067	EA		10' Category 6 Patch Cables With Plastic Arch.....	26.13	
27 16 19 00-0068	EA		15' Category 6 Patch Cables With Plastic Arch.....	34.51	
27 16 19 00-0069	EA		25' Category 6 Patch Cables With Plastic Arch.....	43.09	
27 16 19 00-0070	EA		3' Category 6A Patch Cables With Plastic Arch.....	32.87	
27 16 19 00-0071	EA		5' Category 6A Patch Cables With Plastic Arch.....	35.05	
27 16 19 00-0072	EA		7' Category 6A Patch Cables With Plastic Arch.....	36.68	
27 16 19 00-0073	EA		10' Category 6A Patch Cables With Plastic Arch.....	42.37	
27 16 19 00-0074	EA		15' Category 6A Patch Cables With Plastic Arch.....	51.59	
27 16 19 00-0075	EA		25' Category 6A Patch Cables With Plastic Arch.....	65.63	

27 20 Data Communications⁽²⁷⁾

27 21 Data Communications Network Equipment^(27 20)

Note: Includes testing of new devices and certification.

27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems

^(27 21)

27 21 16 00-0001 Fiber Optic Modems^(27 21 16)

27 21 16 00-0002	EA	Fiber Optic Modems, Range 6.2 Miles.....	1,953.87	259.58
27 21 16 00-0003	EA	Fiber Optic Modem, Range 3.1 Miles, 12 Channel.....	3,747.25	259.58

27 21 16 00-0004 Ethernet Hubs and Switches^(27 21 16)

27 21 16 00-0005	EA	16 Port Managed Hub With Fiberport And Standard Management.....	4,248.00	195.13
27 21 16 00-0006	EA	16 Port Unmanaged Hub.....	653.83	130.09
27 21 16 00-0007	EA	12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	5,850.11	130.09
27 21 16 00-0008	EA	Power Supply (Cisco PWR-IE170W-PC-AC).....	1,732.36	65.04

27 21 16 00-0009 Network Equipment^(27 21 16)

27 21 16 00-0010 Communications Entrance Protection^(27 21 16 00-0009)

27 21 16 00-0011	EA	100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	1,211.00	97.56
Note: Excludes terminations.				
27 21 16 00-0012	EA	Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S).....	14.60	1.30

27 21 16 00-0013 Communications Cabinets, Racks, Frames And Enclosures^(27 21 16 00-0009)

27 21 16 00-0014	EA	19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	1,471.12	97.56
For Fan Kit (Chatsworth 12804-701), Add			204.97	
27 21 16 00-0015	EA	10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	1,345.08	6.50

27 21 16 00-0016 Communications Termination Blocks And Patch Panels^(27 21 16 00-0009)

27 21 16 00-0017 Communications Termination Blocks^(27 21 16 00-0016)

27 21 16 00-0018	EA	4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810).....	378.04	19.47
27 21 16 00-0019	EA	5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802).....	351.78	19.47
27 21 16 00-0020	EA	4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869).....	844.00	19.47
27 21 16 00-0021	EA	5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851).....	784.94	19.47

27	Communications
27 20	Data Communications
27 21	Data Communications Network Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0022	EA		110 Connector System Mounting Brackets (CommScope 107535593).....	118.13	19.47
27 21 16 00-0023	EA		110 Connector System Mounting Brackets (CommScope 107535585).....	127.67	19.47
27 21 16 00-0024	EA		110 Connector System Mounting Brackets (CommScope 107098816).....	145.53	19.47
27 21 16 00-0025			Communications Copper Patch Panels (27 21 16 00-0016)		
			Note: Excludes cabinet and terminations.		
27 21 16 00-0026	EA		24 Port, Category 5E Patch Panel (CommScope 108208919).....	372.89	42.28
27 21 16 00-0027	EA		48 Port, Category 5E Patch Panel (CommScope 108208935).....	680.74	52.04
27 21 16 00-0028	EA		24 Port, Category 6 Patch Panel (CommScope 760062372).....	552.77	42.28
27 21 16 00-0029	EA		48 Port, Category 6 Patch Panel (CommScope 760062380).....	1,033.02	52.04
27 21 16 00-0030			Communications Optical Fiber Patch Panels (27 21 16 00-0016)		
27 21 16 00-0031			Closet Connector Housings (27 21 16 00-0030)		
27 21 16 00-0032	EA		48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U).....	454.85	26.02
			Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0033	EA		96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U).....	531.03	26.02
			Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0034	EA		288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U).....	662.39	26.02
			Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0035	EA		SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91).....	100.10	13.01
27 21 16 00-0036	EA		SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59).....	133.24	13.01
27 21 16 00-0037	EA		SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56).....	111.80	13.01
27 21 16 00-0038	EA		SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C).....	143.95	13.01
27 21 16 00-0039			Communications Cable Management (27 21 16 00-0009)		
27 21 16 00-0040			Horizontal Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0041	EA		1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE).....	166.53	26.02
27 21 16 00-0042	EA		3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E).....	172.46	26.02
27 21 16 00-0043			Vertical Communication Cable Management (27 21 16 00-0039)		
27 21 16 00-0044	EA		6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703).....	1,030.67	65.04
27 21 16 00-0045	EA		19" Width x 84" Height, Universal Rack (Chatsworth 48353-703).....	1,069.04	65.04
27 21 16 00-0046	EA		23" Width x 84" Height, Universal Rack (Chatsworth 48383-703).....	1,155.45	65.04
27 21 16 00-0047			Communications Patch Cords, Station Cords, And Cross Connect Wire (27 21 16 00-0009)		
27 21 16 00-0048			Premise Cross-Connect Wire (27 21 16 00-0047)		
27 21 16 00-0049	LF		1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973).....	1.33	0.65
27 21 16 00-0050			Pathways For Communications Systems (27 21 16 00-0009)		
27 21 16 00-0051			Conduits And Back Boxes For Communication Systems (27 21 16 00-0050)		
27 21 16 00-0052			Flexible Conduit For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0053	CLF		1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson DF4X1C).....	579.34	233.62
27 21 16 00-0054	CLF		1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlson CF4X1C).....	889.65	233.62
27 21 16 00-0055			Tube Cables For Communication Systems (27 21 16 00-0051)		
27 21 16 00-0056			Outdoor/All-Dielectric Tube Cables (27 21 16 00-0055)		
27 21 16 00-0057	CLF		Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX).....	400.78	155.75
27 21 16 00-0058	CLF		Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TRX).....	581.08	194.68
27 21 16 00-0059	CLF		Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX).....	925.68	233.62
27 21 16 00-0060			Indoor/Riser Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0061	CLF		Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX).....	449.66	155.75
27 21 16 00-0062	CLF		Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX).....	543.20	175.21
27 21 16 00-0063	CLF		Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX).....	615.02	194.68
27 21 16 00-0064	CLF		Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX).....	1,079.11	233.62
27 21 16 00-0065			Indoor/Plenum Rated Tube Cables (27 21 16 00-0055)		
27 21 16 00-0066	CLF		Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX).....	347.83	155.75
27 21 16 00-0067	CLF		Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2).....	472.74	155.75
27 21 16 00-0068	CLF		Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2).....	700.70	175.21
27 21 16 00-0069	CLF		Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2).....	993.83	194.68
27 21 16 00-0070	CLF		Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2).....	2,932.41	233.62
27 21 16 00-0071			Unjacketed Single Tube Cables (27 21 16 00-0055)		
27 21 16 00-0072	CLF		Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	309.82	155.75



Communications		27
Data Communications		27 20
Data Communications Network Equipment		27 21

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0073 Multimode Fiber Bundles (27 21 16 00-0055) Note: Includes optical fiber cables.		
27 21 16 00-0074 CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6)	124.03	46.72
27 21 16 00-0075 CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6)	176.98	46.72
27 21 16 00-0076 CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6)	234.01	46.72
27 21 16 00-0077 CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6)	407.80	46.72
27 21 16 00-0078 CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6)	585.06	54.51
27 21 16 00-0079 CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6)	758.85	54.51
27 21 16 00-0080 Singlemode Fiber Bundles (27 21 16 00-0055) Note: Includes optical fiber cables.		
27 21 16 00-0081 CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX)	113.17	46.72
27 21 16 00-0082 CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX)	136.25	46.72
27 21 16 00-0083 CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX)	155.26	46.72
27 21 16 00-0084 CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX)	191.92	46.72
27 21 16 00-0085 CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX)	286.36	54.51
27 21 16 00-0086 CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX)	369.18	54.51
27 21 16 00-0087 Tube Distribution Cabinets (27 21 16 00-0055)		
27 21 16 00-0088 EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU)	235.68	65.04
Note: Up to six 7-tube cables or two 19-tube cables.		
27 21 16 00-0089 Modular Fiber Termination Cabinets (27 21 16 00-0055)		
27 21 16 00-0090 EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM)	288.92	65.04
27 21 16 00-0091 EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM)	305.75	65.04
27 21 16 00-0092 Tube Distribution Accessories (27 21 16 00-0055)		
27 21 16 00-0093 EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA)	14.90	6.50
27 21 16 00-0094 EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2)	16.08	6.50
27 21 16 00-0095 EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB)	19.12	6.50
27 21 16 00-0096 Communications Optical Fiber Cabling (27 21 16 00-0009)		
27 21 16 00-0097 Communications Optical Fiber Cable Splicing And Terminations (27 21 16 00-0096)		
27 21 16 00-0098 Field Installed Fiber Connectors (27 21 16 00-0097)		
27 21 16 00-0099 EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42)	38.63	9.75
27 21 16 00-0100 EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41)	34.73	9.75
27 21 16 00-0101 Buffer Tube Fan-Out Kits (27 21 16 00-0097)		
27 21 16 00-0102 Buffer Tube Breakout Kits (Sumitomo) (27 21 16 00-0101) Note: Includes 900 micron tubing.		
27 21 16 00-0103 EA 2-Fiber Breakout Kit (Sumitomo FTFLD02)	275.87	129.79
27 21 16 00-0104 EA 4-Fiber Breakout Kit (Sumitomo FTFLD04)	279.95	129.79
27 21 16 00-0105 EA 6-Fiber Breakout Kit (Sumitomo FTFLD06)	283.54	129.79
27 21 16 00-0106 EA 12-Fiber Breakout Kit (Sumitomo FTFLD12)	294.72	129.79
27 21 16 00-0107 EA 18-Fiber Breakout Kit (Sumitomo FTFLD18)	310.01	129.79
27 21 16 00-0108 EA 24-Fiber Breakout Kit (Sumitomo FTFLD24)	321.36	129.79
27 21 16 00-0109 Buffer Tube Fan-Out Kits (Corning) (27 21 16 00-0101)		
27 21 16 00-0110 EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12)	277.76	129.79
27 21 16 00-0111 EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12)	318.10	129.79
27 21 16 00-0112 Communications Copper Cabling (27 21 16 00-0009)		
27 21 16 00-0113 Copper Communications Cable Splicing And Terminations (27 21 16 00-0112)		
27 21 16 00-0114 Copper Communications Cable Splice Cases (27 21 16 00-0113)		
27 21 16 00-0115 EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626)	1,276.22	259.58
27 21 16 00-0116 EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630)	1,492.59	259.58
27 21 16 00-0117 EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219)	2,211.58	259.58
27 21 16 00-0118 Modular Splice Connectors (27 21 16 00-0113)		
27 21 16 00-0119 EA 25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25)	140.29	64.89
27 21 16 00-0120 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25)	137.95	64.89
27 21 16 00-0121 EA 25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25)	140.34	64.89
27 21 16 00-0122 EA 25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25)	140.01	64.89

27 Communications**27 20 Data Communications****27 21 Data Communications Network Equipment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

27 21 26 Data Communications Network Management (27 21)**27 21 26 00-0001 Data Communications Network Management (27 21 26)**

27 21 26 00-0002	EA	3 Port, Terminal/Serial Device Server (Control 99560-9).....	715.58	32.45
27 21 26 00-0003	EA	2 Port, Terminal/Serial Device Server (Control 99550-0).....	549.82	32.45
27 21 26 00-0004	EA	4 Port, DB9 Terminal/Serial Device Server (Control 99445-9).....	768.81	32.45
27 21 26 00-0005	EA	4 Port, DB9 Terminal/Serial Device Server (Control 99448-0).....	1,207.94	32.45
27 21 26 00-0006	EA	24 Watt, Din Rail Mountable, Power Adapter (Control PS1020).....	111.85	
27 21 26 00-0007	EA	Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	533.14	19.47
27 21 26 00-0008	EA	Sennetech Code Translator (Pelco SCT_100_AD232).....	888.04	32.45
27 21 26 00-0009	EA	VPN Router (Cisco 819HG).....	5,287.91	416.28
27 21 26 00-0010	EA	Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	3,784.55	416.28
27 21 26 00-0011	EA	WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	19,726.72	155.75
27 21 26 00-0012	EA	SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis, 2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	619.48	
27 21 26 00-0013	EA	Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	13,427.41	155.75
27 21 26 00-0014	EA	Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	29,152.74	155.75
27 21 26 00-0015	EA	Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	686.93	13.01
27 21 26 00-0016	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	5,037.75	16.22
27 21 26 00-0017	EA	Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	4,368.77	16.22
27 21 26 00-0018	EA	13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	78.22	6.50
27 21 26 00-0019	EA	1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD=).....	252.05	64.89
27 21 26 00-0020	EA	Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS).....	3,847.79	155.75
27 21 26 00-0021	EA	SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	815.08	
27 21 26 00-0022	EA	North America AC Type A Power Cable (Cisco CAB-TA-NA).....	26.15	6.50
27 21 26 00-0023	EA	350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	340.56	16.22
27 21 26 00-0024	EA	Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	847.62	16.26
27 21 26 00-0025	EA	1' (30cm), Catalyst 3750X Stack Power Cable (Cisco CAB-SPWR-30CM).....	124.25	6.50
27 21 26 00-0026	EA	Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	4,551.41	155.75
27 21 26 00-0027	EA	SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	818.34	
27 21 26 00-0028	EA	IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	725.29	16.22
27 21 26 00-0029	EA	IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IA).....	736.70	16.22
27 21 26 00-0030	EA	4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,571.86	155.75
27 21 26 00-0031	EA	Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	399.32	16.26
27 21 26 00-0032	EA	4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,874.65	16.26
27 21 26 00-0033	EA	Router (CISCO IR829).....	1,678.78	65.04

27 21 29 Data Communications Switches and Hubs (27 21)**27 21 29 00-0001 Data Communications Multimedia Modular Patch Panels (27 21 29)**

Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0051 for modular jacks.

27 21 29 00-0002	EA	12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	125.23	6.49
27 21 29 00-0003	EA	16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	138.26	6.49
27 21 29 00-0004	EA	24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	163.46	6.49
27 21 29 00-0005	EA	36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	171.20	6.49
27 21 29 00-0006	EA	48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	187.19	8.12
27 21 29 00-0007	EA	24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	177.62	6.49
27 21 29 00-0008	EA	48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	222.91	8.12
27 21 29 00-0009	EA	Rack Mount Rear Cable Management Bar.....	69.53	8.12

27 21 33 Data Communications Wireless Access Points (27 21)**27 21 33 00-0001 Data Communications Wireless Access Points (27 21 33)**

27 21 33 00-0002	EA	Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	5,151.77	194.68
27 21 33 00-0003	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	12,369.64	194.68
27 21 33 00-0004	EA	Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	12,369.64	194.68
27 21 33 00-0005	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	2,019.18	194.68
27 21 33 00-0006	EA	Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	2,367.10	217.07
27 21 33 00-0007	EA	Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	6,619.57	217.07
27 21 33 00-0008	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	10,056.68	217.07
27 21 33 00-0009	EA	Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	10,056.68	217.07
27 21 33 00-0010	EA	50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	2,063.25	72.36
27 21 33 00-0011	EA	100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	2,092.11	72.36
27 21 33 00-0012	EA	Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	195.07	36.18
27 21 33 00-0013	EA	FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM).....	1,793.22	
27 21 33 00-0014	EA	1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	641.67	64.89
27 21 33 00-0015	EA	Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-VH).....	532.04	64.89
27 21 33 00-0016	EA	Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	94.63	25.96
27 21 33 00-0017	EA	AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	83.07	
27 21 33 00-0018	EA	AirLink GX400 Power Cable (Sierra Wireless 2000380).....	48.53	
27 21 33 00-0019	EA	Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL).....	341.61	64.89



Communications			27
Data Communications			27 20
Data Communications Network Equipment			27 21

MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 33 00-0020	EA	Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	343.74	64.89
27 21 33 00-0021	EA	2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D)	468.84	65.04
27 21 33 00-0022	EA	Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	1,183.37	97.56
27 21 33 00-0023	EA	Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged).....	1,513.33	97.56
27 21 33 00-0024	EA	Magnetic Mount Cellular Antenna (Wilson Electronics 301125)	85.16	19.47
27 21 33 00-0025	EA	Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	321.53	72.36
27 21 33 00-0026	EA	Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y).....	1,052.48	72.36
27 21 33 00-0027	EA	Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC)	5,175.56	65.04
27 21 33 00-0028	EA	Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,629.00	64.89

27 22 Data Communications Hardware (27 20)

27 22 19 Data Communications Servers (27 22)

27 22 19 00-0001 Network Communications Frames And Enclosures (27 22 19)

27 22 19 00-0002	EA	Communications Equipment Enclosure..... Note: APX Enclosures, Inc. part number TCDD727236 or an approved equivalent. UL listed, 72" H x 72" W x 36" D, 0.0125" 5052 aluminum construction, polyester powder finish, ANSI 61 grey out/white in, dual swing rack 19/23", standard EIA spacing, tapped 12-24 adjustable channels on side, thermostat kit, fluorescent light kit, 3PT, latch on main door with pad lock provisions, plywood back panels, and insulation thru-out) with a 12,000 BTU air conditioning unit housed in a stainless steel enclosure.	22,341.80	390.27
27 22 19 00-0003	EA	Wall Mounted Equipment Cabinet..... Note: Mid-Atlantic DWR-24-22 PD.	1,471.57	130.09
27 22 19 00-0004	EA	APX 2 Bay Communications Equipment Enclosure, 72" High x 72" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel..... Note: UI 508A Listed Enclosure, NEMA 4x (Two Bay) APX Double Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (1) Door with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on Both Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Lifting Ears, Door Gasket Seals, Removable Center Post, Continuous Stile Hinges/Hardware, (2) Fluorescent Light Fixtures with door activated switches, (12,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.	11,127.16	
27 22 19 00-0005	EA	APX 3 Bay Communications Equipment Enclosure, 72" High x 108" Wide x 36" Deep, 14 Ga. Type 304 Stainless Steel..... Note: UI 508A Listed Enclosure, NEMA 4x (Three Bay) APX Three Door Front Style, Stainless Steel construction with a natural mill finish. Includes Three Point Door Latching on (3) Doors with Stainless Steel Pad Lockable Handle, Sloped Lid Toward Rear of Cabinet, Door Wind Stay Brackets and Bars on all three Doors, R-4 Insulation Package on inside enclosure and doors, 3/4" Plywood Back panels on Rear Wall, (1) 19" Swing Out Rack in each bay with 12-24 Tapped Holes, Two 33 RU Racks positioned inside left and right bays, Lifting Ears Door Gasket Seals, (2) Fixed Center Posts, Continuous Stile Hinges/Hardware, (3) Fluorescent Light Fixtures with door activated switches, (19,000 BTU) Air Conditioner (230 Volt) with Stainless Steel Shell Mounted to Sied Wall, (4) Three Prong Duplex Receptacles, Power Distribution Panel with 100 Amp Load Center, 100 AMP Main Breaker, Equipment Circuit Breakers, Surge Suppression, includes Fiber Storage Reels.	40,157.30	

27 24 Data Communications Peripheral Data Equipment (27 20)

27 24 19 External Drives (27 24)

27 24 19 00-0001 Network Equipment (27 24 19)

27 24 19 00-0002	EA	19" Rack Mountable 110-24T Ethernet Switch..... Note: 24 x 10/100Base-TX LAN with SFP (miniGBic) port, Nortel Networks Limited 110-24T Managed Business Ethernet Switch - 24 x 10/100Base-TX LAN model #NT5S01AEE5. Includes testing.	641.57	43.22
27 24 19 00-0003	EA	19" Rack Mountable Station Access Router..... Note: Nortel Network part number SR2101031E5. Includes testing.	3,343.42	227.13
27 24 19 00-0004	EA	19" Rack Mount LCD Monitor..... Note: Nortel Network part number SR2101031E5. Includes testing.	1,595.42	103.83
27 24 19 00-0005	EA	1000VA UPS (Uninterruptible Power Supply)..... Note: APC SUA1000RM2U. Includes testing.	1,528.41	118.60
27 24 19 00-0006	EA	1000VA UPS (Uninterruptible Power Supply)..... Note: APC BR1000. Includes testing.	619.88	118.60
27 24 19 00-0007	EA	1200VA UPS (Uninterruptible Power Supply)..... Note: APC BR1200. Includes testing.	636.29	118.60

27 30 Voice Communications (27)

27 32 Voice Communications Terminal Equipment (27 30)

Note: Includes testing of new devices and certification.

27 32 13 Telephone Sets (27 32)

27 32 13 00-0001 Interior Telephone Components (27 32 13)

27 32 13 00-0002	EA	Solid State Exchange Unit With Power Supply.....	7,985.25	1,186.02
27 32 13 00-0003	EA	Dial Telephone - Handset In Cabinet.....	958.58	96.95
27 32 13 00-0004	EA	Elevator Cab Telephone With Trailer Cable.....	486.39	103.96
27 32 13 00-0005	EA	Loud Ring Bell, 6".....	381.55	96.44
27 32 13 00-0006	EA	Audio/Visual Indicator.....	486.38	90.85
27 32 13 00-0007	EA	Administrative Telephone With Digital Display.....	506.72	81.51
27 32 13 00-0008	EA	Processing Unit For 16 Station System.....	2,509.00	664.92

27 Communications**27 30 Voice Communications****27 32 Voice Communications Terminal Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 13 00-0009 EA Handset For 16 Station System	357.21	66.19
27 32 13 00-0010 EA Handset In Cabinet, For 16 Station System	483.88	89.30
27 32 13 00-0011 MLF 20 Conductor Unshielded Cable, #22	3,227.15	1,431.20
27 32 13 00-0012 EA Power Supply For 16 Station System	448.50	176.65
27 32 13 00-0013 EA Intercom Terminal Board	396.04	198.84
27 32 13 00-0014 EA Power Supply For Five Station System, 24 Volt DC	466.27	176.65
27 32 13 00-0015 EA Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick	227.52	72.59
27 32 13 00-0016 EA Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep	712.16	159.76
27 32 13 00-0017 EA Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep	841.11	181.58
27 32 13 00-0018 EA Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep	1,020.16	214.90
27 32 13 00-0019 EA Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep	1,204.20	232.34
27 32 13 00-0020 EA Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep	1,878.82	264.36
27 32 13 00-0021 EA Ring Rung 3"	14.01	7.24
27 32 13 00-0022 EA G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID	35.09	12.85
27 32 13 00-0023 EA G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing	63.68	26.35

27 32 13 00-0024 Interior Telephone Accessories (27 32 13)

27 32 13 00-0025 EA Blank Telephone Receptacle, Exposed Devices - Complete	14.44	7.01
27 32 13 00-0026 EA 4-Pin Telephone Receptacle, Exposed Devices - Complete	30.95	26.99
27 32 13 00-0027 EA Dual Flush Mounted, Level 5, RJ-45 Jack, Complete	75.53	29.65
27 32 13 00-0028 EA Wall Mount, Level 5, RJ-45 Jack, Complete	71.92	29.65
27 32 13 00-0029 EA Terminating Strips, Inside	145.65	59.30
27 32 13 00-0030 EA Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete	65.16	30.50
27 32 13 00-0031 EA Ready Access Closure 3 To 25 Pair	175.95	71.51
27 32 13 00-0032 EA Ready Access Closure 25 To 100 Pair	204.80	79.95
27 32 13 00-0033 EA Termination Block With Bracket 25 Pair	65.75	24.01
27 32 13 00-0034 EA RJ-11 Telephone Receptacle, Concealed Devices - Complete	64.00	30.11
27 32 13 00-0035 EA Interior Protected Terminal 25 Pair	722.25	173.40
27 32 13 00-0036 EA Interior Protected Terminal 50 Pair	848.45	176.13
27 32 13 00-0037 EA Pedestal 6" x 6" x 50" 3 To 100 Pair	288.40	72.16
27 32 13 00-0038 EA Pedestal 8" x 8" x 50" 100 To 300 Pair	297.05	72.16
27 32 13 00-0039 EA Pedestal 10" x 10" x 43" 300 To 600 Pair	391.49	92.29
27 32 13 00-0040 EA Pedestal 10" x 16" x 43" 600 Pair	805.75	166.26
27 32 13 00-0041 EA Entrance Protector Terminal 100 Pair	1,104.29	189.76
27 32 13 00-0042 EA Gas Protection Module	18.04	6.49
27 32 13 00-0043 EA Terminating Boxes, Outside With 3 Element Protectors, Per Pair	29.89	5.93

27 32 26 Ring-Down Emergency Telephones (27 32)**27 32 26 00-0001 Emergency Telephone (27 32 26)**

Note: Includes CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70 watt area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.

27 32 26 00-0002 EA Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s)	11,912.39	532.25
27 32 26 00-0003 EA Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d)	12,529.82	532.25
27 32 26 00-0004 EA Analog Speakerphone With Black Info Button And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2)	205.81	
27 32 26 00-0005 EA Analog Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2-K)	308.71	
27 32 26 00-0006 EA IP Speakerphone With Single Red Push For Help Button Code Blue Option (Code Blue IP5000 FP1)	771.78	
27 32 26 00-0007 EA IP Speakerphone With Back Info Button And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2)	1,049.63	
27 32 26 00-0008 EA IP Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2-K)	1,152.53	
27 32 26 00-0009 EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option	20.58	
27 32 26 00-0010 EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option	20.58	
27 32 26 00-0011 EA Directory, Second Opening Code Blue Option	185.23	
27 32 26 00-0012 EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option	1,955.19	
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option	905.56	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option	2,932.78	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option	6,163.98	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option	329.29	
27 32 26 00-0017 EA Night Charge Power Code Blue Option	2,871.04	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option	720.33	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option	1,636.18	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option	72.03	

27 32 26 00-0021 City Police Call System (27 32 26)



Communications			27
Voice Communications			27 30
Voice Communications Terminal Equipment			27 32

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 32 26 00-0022			Components (27 32 26 00-0021)		
27 32 26 00-0023	EA		City Police Call System.....	928.78	151.34
27 32 26 00-0024	EA		Concrete Foundation For Police Department Telephone Post	829.56	219.22

27 40 Audio-Video Communications (27)

27 41 Audio-Video Systems (27 40)

27 41 16 Integrated Audio-Video Systems and Equipment (27 41)

Note: Includes testing of new devices and certification.

27 41 16 00-0001			Television Distribution System (27 41 16)		
See CSI section 26 05 19 16-0012 for basic wiring.					
27 41 16 00-0002			Mounted Television Support (27 41 16 00-0001)		
27 41 16 00-0003	EA		Ceiling Mounted Television Support, 19" To 20".....	514.27	145.70
27 41 16 00-0004	EA		Ceiling Mounted Television Support, 19" To 20" With Rack	664.80	162.61
27 41 16 00-0005	EA		Ceiling Mounted Television Support, 25" To 27".....	537.11	145.70
27 41 16 00-0006	EA		Ceiling Mounted Television Support, 25" To 27" With Rack	687.64	162.61
27 41 16 00-0007	EA		Wall Mounted Television Support, 13".....	407.54	117.08
27 41 16 00-0008	EA		Wall Mounted Television Support, 13" With Rack.....	558.05	130.09
27 41 16 00-0009	EA		Wall Mounted Television Support, 19" To 20".....	437.52	117.08
27 41 16 00-0010	EA		Wall Mounted Television Support, 19" To 20" With Rack	588.03	130.09
27 41 16 00-0011	EA		Wall Mounted Television Support, 25" To 27".....	467.51	117.08
27 41 16 00-0012	EA		Wall Mounted Television Support, 25" To 27" With Rack	618.02	130.09
27 41 16 00-0013			Distribution System (27 41 16 00-0001)		
See CSI section 26 05 13 16-0001 for wire and cabling.					
27 41 16 00-0014			TV Distribution Rack (27 41 16 00-0013)		
27 41 16 00-0015	EA		Steel Rack Cabinet With Shelves	1,812.96	238.69
27 41 16 00-0016	EA		Switch And Pilot Light.....	279.92	106.04
27 41 16 00-0017	LF		Surface Raceway With Outlets	33.44	14.40
27 41 16 00-0018	EA		Service Label.....	39.59	19.86
27 41 16 00-0019			Head End Amplifier (27 41 16 00-0013)		
27 41 16 00-0020	EA		Head End Amplifier.....	1,209.55	158.86
27 41 16 00-0021			UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)		
27 41 16 00-0022	EA		UHF In-Line Booster	704.33	158.86
27 41 16 00-0023			Preamplifiers (27 41 16 00-0013)		
27 41 16 00-0024	EA		VHF Preamplifier	882.23	158.86
27 41 16 00-0025	EA		UHF Preamplifier	704.33	158.86
27 41 16 00-0026			Power Supplies (27 41 16 00-0013)		
27 41 16 00-0027	EA		Common Power Supply	1,260.33	227.00
27 41 16 00-0028			Line Splitter And Mixer (27 41 16 00-0013)		
27 41 16 00-0029	EA		Line Splitter.....	107.94	52.95
27 41 16 00-0030	EA		Two-Way Splitter	122.10	52.95
27 41 16 00-0031	EA		Frequency Filter.....	272.18	79.57
27 41 16 00-0032	EA		Line Splitter And Mixer.....	329.60	116.81
27 41 16 00-0033			Power Line Filters (27 41 16 00-0013)		
27 41 16 00-0034	EA		120-Volt Power Supply Line Filter.....	528.97	106.04
27 41 16 00-0035			Wall Box And Receiver Outlets (27 41 16 00-0013)		
27 41 16 00-0036	EA		Wall Box With Lockable Cover, Excluding Outlet Plug	272.18	79.57
27 41 16 00-0037	EA		TV Receiver Outlet Plug	122.10	52.95
27 41 16 00-0038	EA		TV Camera Outlet Plug.....	122.10	52.95
27 41 16 00-0039	EA		Audio Outlet Plug.....	104.36	52.95
27 41 16 00-0040	EA		12 Ft RG 6U Cable With G-59 And TV Set Fittings	217.65	106.04
27 41 16 00-0041	EA		Male Plug PL-259	122.10	52.95
27 41 16 00-0042	EA		Wall Box And Receiver Outlet Television Outlets	143.66	55.55

27 41 33 Master Antenna Television Systems (27 41)

27 41 33 00-0001 Antenna Systems (27 41 33)

27	Communications
27 40	Audio-Video Communications
27 41	Audio-Video Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 33 00-0002			Antenna (27 41 33 00-0001)		
27 41 33 00-0003	EA		Amateur Radio Antenna.....	1,144.05	194.68
27 41 33 00-0004	EA		Multi-Band Radio Antenna.....	889.20	194.68
27 41 33 00-0005			Receptacles (27 41 33 00-0001)		
27 41 33 00-0006	EA		Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	254.41	79.57
27 41 33 00-0007	EA		Multi-Band Radio Antenna System Receptacle With Mating Plugs.....	254.41	79.57

27 50 Distributed Communications and Monitoring Systems (27)

27 51 Distributed Audio-Video Communications Systems (27 50)

27 51 17 Video Intercom and Exterior Gate Control System (27 51)

27 51 17 00-0001			Video Intercom And Exterior Gate Control System (27 51 17)		
27 51 17 00-0002	EA		Audio Video Master Control Station With Handset, White Finish (Aiphone IX-MV7-HW).....	1,577.83	162.61
27 51 17 00-0003	EA		Audio Video Master Control Station (Aiphone AX-8MV).....	1,270.37	162.61
27 51 17 00-0004	EA		16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	538.74	162.61
27 51 17 00-0005	EA		Central Exchange Unit (Aiphone AX-084C).....	1,499.21	81.31
27 51 17 00-0006	EA		Central Exchange Unit (Aiphone AX-248C).....	2,041.53	81.31
27 51 17 00-0007	EA		Touch Tone Programmable Dialer (Viking K-1900-5).....	155.48	32.52
27 51 17 00-0008	EA		Surface Mount Audio/Video Door Station (Aiphone IX-DV).....	1,079.19	32.52
27 51 17 00-0009	EA		Surface Or Flush Wall Mount Audio/Video Door Station (Aiphone IX-DVF).....	1,482.77	32.52
27 51 17 00-0010	EA		Surface Mount Audio/Video Door Station (Aiphone AX-DV).....	482.10	32.52
27 51 17 00-0011	EA		Flush Mount Audio/Video Door Station (Aiphone AX-DVF).....	543.31	32.52
27 51 17 00-0012	EA		12 Volt, 2.5 Amperes, DC Power Supply (Aiphone PS-1225UL).....	147.81	16.26
			Note: UL Listed		
27 51 17 00-0013	EA		24 Volt, 2 Amperes, DC Power Supply (Aiphone PS-2420UL).....	160.64	16.26
			Note: UL Listed		
27 51 17 00-0014	EA		IP Video Master Station (Aiphone IX-MV).....	1,924.76	162.61
27 51 17 00-0015	EA		Handset Only For IX-MV (Aiphone 285999).....	65.93	6.50
27 51 17 00-0016	EA		Hands Free Sub Master Video Monitor (Aiphone JF-2HD).....	821.99	162.61
27 51 17 00-0017	EA		Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P).....	772.48	32.52
27 51 17 00-0018	EA		Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF).....	235.85	32.52
27 51 17 00-0019	EA		Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF).....	262.90	32.52
27 51 17 00-0020	EA		Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVF/A).....	322.47	48.78
27 51 17 00-0021	EA		Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880).....	72.11	16.26

27 51 23 Intercommunications and Program Systems (27 51)

27 51 23 20 Commercial Intercommunications and Program Systems (27 51 23)

27 51 23 20-0001			Intercom (27 51 23 20)		
27 51 23 20-0002	EA		Basic Shelf (Dukane STARCall 110-3546A).....	5,624.78	390.27
27 51 23 20-0003	EA		Expanded Audio Routing Card (Dukane STARCall 110-3524B).....	2,627.69	
27 51 23 20-0004	EA		Expanded Audio Switching Card (Dukane STARCall 110-3534D).....	1,910.68	
27 51 23 20-0005	EA		Expanded Administrative Telephone Card (Dukane STARCall Dukane 110-3527A).....	1,932.81	
27 51 23 20-0006	EA		Protected Balanced Telephone Card (Dukane STARCall 110-3775B).....	4,329.49	
27 51 23 20-0007	EA		250 Watt Power Amplifier (Dukane STARCall 1A4250).....	3,419.95	
27 51 23 20-0008	EA		Intercom Amplifier Module (Dukane STARCall 110-3544C).....	857.29	
27 51 23 20-0009	EA		Administrative Telephone (Dukane STARCall 7A1110).....	2,067.80	
27 51 23 20-0010	EA		AM/FM Tuner / CD Player Preamplifier (Dukane STARCall RCD350P).....	3,661.16	
27 51 23 20-0011	EA		Digital Display (Dukane STARCall RDU350).....	4,086.06	
27 51 23 20-0012	EA		UPS System, 120 Tripp Lite SMARTNET (Emerson PS220RT2-120).....	3,560.24	
27 51 23 20-0013	EA		Equipment Cabinet (Atlas Sound 140-18).....	1,902.23	
27 51 23 20-0014	EA		Storage Drawer (Atlas Sound SD6-14).....	623.59	
27 51 23 20-0015	EA		Master Clock (Dukane 24A715).....	4,483.06	
27 51 23 20-0016	EA		Corrective Clock (National Time 030-10EX-LV).....	388.14	
27 51 23 20-0017	EA		Clock Backbox (National Time 143-K3).....	50.76	
27 51 23 20-0018	EA		Speaker/Transformer Assembly (Dukane 5A606).....	48.55	
27 51 23 20-0019	EA		Baffle (Atlas Sound 840-89).....	355.89	
27 51 23 20-0020	EA		Surface Mounted Backbox (Atlas Sound SM195-89).....	200.03	
27 51 23 20-0021	EA		Dual Call-In Button (Horizon DCSB-1D9).....	94.48	
27 51 23 20-0022	EA		Dual Call-In Button With Privacy Control (Horizon DCSB-2P9).....	116.61	
27 51 23 20-0023	EA		Telephone Punchblock.....	54.92	
27 51 23 20-0024	EA		Ground Rail (Edco MGB).....	34.69	
27 51 23 20-0025	EA		Surge Suppressor (Edco OPX-048).....	57.31	
27 51 23 20-0026	EA		Surge Suppressor (Edco HCO).....	59.53	

27 51 43 Sound Reinforcement (27 51)

Note: Includes testing of new devices and certification.

27 51 43 00-0001			Amplifiers (27 51 43)		
27 51 43 00-0002	EA		10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10).....	583.08	130.09
27 51 43 00-0003	EA		35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35).....	825.13	130.09
27 51 43 00-0004	EA		60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60).....	980.50	130.09



Communications			27
Distributed Communications and Monitoring Systems			27 50
Distributed Audio-Video Communications Systems			27 51

27

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 43 00-0005 EA 100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100).....	1,091.35	130.09
27 51 43 00-0006 EA 150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150).....	1,359.96	130.09
27 51 43 00-0007 EA 250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250).....	1,761.64	130.09
27 51 43 00-0008 EA Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK)	69.87	6.50
27 51 43 00-0009 Splitters (27 51 43)		
27 51 43 00-0010 EA 24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE)	3,515.27	97.34
27 51 43 00-0011 EA 1-in/11-out Splitter (Doug Fleenor DMX)	3,171.02	97.34
27 51 43 00-0012 Speakers (27 51 43)		
27 51 43 00-0013 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W)	227.79	34.79
27 51 43 00-0014 EA 8" Steel Baffle (Atlas Sound 51-8)	72.87	6.49
27 51 43 00-0015 EA T-Bar Support (Atlas Sound EZ95-8)	81.32	6.49
27 51 43 00-0016 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408)	126.62	6.49
27 51 43 00-0017 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA)	117.50	11.68
27 51 43 00-0018 Accessories (27 51 43)		
27 51 43 00-0019 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A).....	339.89	16.26
27 51 43 00-0020 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P)	763.64	16.26
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A)	193.64	32.52
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A)	358.48	32.52
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex)	262.06	32.45
27 51 43 00-0024 EA Microphone Jack For Audio/Video System	121.41	32.52
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18)	1,025.68	130.09
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A).....	116.07	32.52
27 51 43 00-0027 EA Round Bridge for 8" (S86/S810) Recessed Speakers (Bogen Communications TB8).....	81.50	32.52
27 51 43 00-0028 Removal And Reinstallation Of Speakers (27 51 43)		
Note: Includes storage, cleaning and supply materials.		
27 51 43 00-0029 EA Removal And Reinstallation Of Ceiling Mounted Speaker.....	181.70	
27 53 Distributed Systems (27 50)		
27 53 13 Clock Systems (27 53)		
27 53 13 16 Wired Clock Systems (27 53 13)		
27 53 13 16-0001 Wired Self-Corrective Clock Systems (27 53 13 16)		
27 53 13 16-0002 Wired Self-Corrective Clocks (27 53 13 16-0001)		
27 53 13 16-0003 Analog, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0005 EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	298.05	32.45
For >50 To 100, Deduct		-19.03
For >100, Deduct		-28.36
27 53 13 16-0006 EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	714.19	32.45
For >50 To 100, Deduct		-35.68
For >100, Deduct		-61.65
27 53 13 16-0007 EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	374.78	32.45
For >50 To 100, Deduct		-25.20
For >100, Deduct		-37.59
27 53 13 16-0008 EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	944.39	32.45
For >50 To 100, Deduct		-97.65
For >100, Deduct		-132.83
27 53 13 16-0009 120 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0010 EA 12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	298.05	32.45
For >50 To 100, Deduct		-19.03
For >100, Deduct		-28.36
27 53 13 16-0011 EA 12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	714.19	32.45
For >50 To 100, Deduct		-35.68
For >100, Deduct		-61.65
27 53 13 16-0012 EA 16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount	374.78	32.45
For >50 To 100, Deduct		-25.20
For >100, Deduct		-37.59
27 53 13 16-0013 EA 16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	944.39	32.45
For >50 To 100, Deduct		-97.65
For >100, Deduct		-132.83
27 53 13 16-0014 Accessories For Analog Wired Self-Corrective Clocks (27 53 13 16-0003)		
27 53 13 16-0015 EA Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks	246.42	16.22
27 53 13 16-0016 EA Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks	61.96	16.22
27 53 13 16-0017 EA Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks	78.94	16.22
27 53 13 16-0018 EA Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks	96.65	16.22

27 Communications**27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0019 EA Combination Back Box For Speaker And Clock.....	164.77	25.96
27 53 13 16-0020 Digital, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)		
27 53 13 16-0021 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0022 EA 2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	368.88	32.45
For Surface Mount, Add	60.80	
For >50 To 100, Deduct	-18.24	
For >100, Deduct	-30.40	
27 53 13 16-0023 EA 4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	569.57	32.45
For Surface Mount, Add	100.94	
For >50 To 100, Deduct	-30.28	
For >100, Deduct	-50.47	
27 53 13 16-0024 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0025 EA 2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	368.88	32.45
For Surface Mount, Add	60.80	
For >50 To 100, Deduct	-18.24	
For >100, Deduct	-30.40	
27 53 13 16-0026 EA 4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	569.57	32.45
For Surface Mount, Add	100.94	
For >50 To 100, Deduct	-30.28	
For >100, Deduct	-50.47	
27 53 13 16-0027 Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0028 EA 2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	315.03	32.45
For >50 To 100, Deduct	-15.01	
For >100, Deduct	-25.01	
27 53 13 16-0029 EA 4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	520.87	32.45
For >50 To 100, Deduct	-27.36	
For >100, Deduct	-45.60	
27 53 13 16-0030 Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0031 EA 2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	315.03	32.45
For >50 To 100, Deduct	-15.01	
For >100, Deduct	-25.01	
27 53 13 16-0032 EA 4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	520.87	32.45
For >50 To 100, Deduct	-27.36	
For >100, Deduct	-45.60	
27 53 13 16-0033 Accessories For Digital Wired Self-Corrective Clocks (27 53 13 16-0020)		
27 53 13 16-0034 EA Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	336.44	16.22
27 53 13 16-0035 EA 2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	79.67	16.22
27 53 13 16-0036 EA 4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	110.66	16.22
27 53 13 16-0037 EA Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks.....	293.64	16.22
27 53 13 16-0038 EA 4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	81.89	16.22
27 53 13 16-0039 Wired Self-Corrective Master Clocks (27 53 13 16-0001)		
27 53 13 16-0040 Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0041 EA 24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	3,464.61	259.58
27 53 13 16-0042 EA 120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	3,685.96	259.58
27 53 13 16-0043 Accessories For Wired Self-Corrective Master Clocks (27 53 13 16-0039)		
27 53 13 16-0044 EA 5 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	353.37	64.89
27 53 13 16-0045 EA 10 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	399.84	64.89
27 53 13 16-0046 Other Clock And Program Systems (27 53 13 16)		
27 53 13 16-0047 EA 4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	2,055.17	129.79
27 53 13 16-0048 EA 8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	2,485.00	259.58
27 53 13 16-0049 EA Program Bell (Lathem 906-6).....	302.70	64.89
27 53 13 16-0050 EA Combination Clock And Speaker.....	687.21	162.24

END OF SECTION 27



Electronic Safety and Security		28	28
Life Safety		28 40	
Radiation Detection and Alarm		28 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

28 40 Life Safety ⁽²⁸⁾

Note: Includes testing of new devices and certification. See CSI section 26 05 19 16-0011 for electrical connections and termination.

28 41 Radiation Detection and Alarm ^(28 40)

28 41 15 Radiation Detection Sensors ^(28 41)

28 41 15 00-0001 Wall Mount, Battery Operated, Home Radon Detector ^(28 41 15)

Note: Long term and 7 day average display.

28 41 15 00-0002 EA Wall Mount, Battery Operated, Home Radon Detector.....213.80

28 42 Gas Detection and Alarm ^(28 40)

28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems ^(28 42)

28 42 11 00-0001 Monitoring System For Underground Tanks ^(28 42 11)

28 42 11 00-0002 Continuous Leak Detection System ^(28 42 11 00-0001)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003	EA	Single Channel Underground Tank Monitoring System.....	9,902.33	532.14
28 42 11 00-0004	EA	2 Channel Underground Tank Monitoring System.....	13,362.11	709.96
28 42 11 00-0005	EA	3 Channel Underground Tank Monitoring System.....	18,950.55	760.58
28 42 11 00-0006	EA	4 Channel Underground Tank Monitoring System.....	20,281.68	1,064.29
28 42 11 00-0007	EA	Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System.....	14,371.51	90.85
28 42 11 00-0008	EA	Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System.....	12,960.34	81.12
28 42 11 00-0009	EA	Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System.....	17,045.33	90.85
28 42 11 00-0010	EA	Tank Leak Detection Probe.....	5,277.92	19.47
28 42 11 00-0011	EA	Secondary Containment Collar Probe.....	643.30	7.78
28 42 11 00-0012	EA	Interstitial Leak Detection Probe.....	1,178.76	16.22
28 42 11 00-0013	EA	Liquid Phase Detection.....	3,890.98	48.67
28 42 11 00-0014	EA	Hydrocarbon Vapor, Fixed.....	3,590.86	48.67
28 42 11 00-0015	EA	Hydrocarbon Vapor, Float Mounted.....	4,197.23	55.16
28 42 11 00-0016	EA	Liquid And Vapor Hydrocarbon.....	4,797.48	55.16

28 42 15 Gas Detection Sensors ^(28 42)

28 42 15 00-0001 Hydrogen Gas Detection ^(28 42 15)

28 42 15 00-0002	EA	Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR).....	2,078.20	48.78
28 42 15 00-0003	EA	Hydrogen Gas Detector Junction Box (SBS HGDI-JB).....	109.98	16.26
28 42 15 00-0004	EA	Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM).....	529.10	48.78

28 43 Fuel Oil Detection and Alarm ^(28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

28 46 Fire Detection and Alarm ^(28 40)

28 46 13 Fire-Alarm Systems ^(28 46)

28 46 13 31 Proprietary Supervising-Station Fire-Alarm Systems ^(28 46 13)

Note: Includes programming of equipment, testing and certification of new devices.

28 46 13 31-0001 Edwards Fire Alarm ^(28 46 13 31)

28 46 13 31-0002 EST3 Life Safety And Security Control ^(28 46 13 31-0001)

28 46 13 31-0003 EST3 Network ^(28 46 13 31-0002)

28 46 13 31-0004 Remote Annunciators ^(28 46 13 31-0003)

28 46 13 31-0005	EA	Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	1,680.14	97.56
Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.				
28 46 13 31-0006	EA	Six Position Base Annunciator (EST3 3-6ANN).....	1,369.48	97.56
Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.				
28 46 13 31-0007	EA	Ten Position Base Annunciator (EST3 3-10ANN).....	1,731.72	97.56
Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.				
28 46 13 31-0008	EA	Annunciator CPU (EST3 3-ANNCPU3).....	1,104.31	97.56
Note: One Required per graphic annunciator.				
28 46 13 31-0009	EA	Annunciator Support Module (EST3 3-ANNSM).....	203.39	32.52
Note: Takes one space in Annunciator box. Supports one Control/Display module.				
28 46 13 31-0010	EA	Liquid Crystal Display Module (EST3 3-LCD).....	710.49	97.56
Note: Mounts over 3-CPU(1).				
28 46 13 31-0011	EA	Liquid Crystal Display Module (EST3 3-LCDXL).....	642.00	97.56
Note: Mounts over 3-ANNCPU plus two spaces.				

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0012	EA	LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA) Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.	801.30	97.56
28 46 13 31-0013	EA	Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA) Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.	933.23	65.04
28 46 13 31-0014	EA	Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX) Note: Mounts up to three 3-EVDVRA modules.	141.72	32.52
28 46 13 31-0015	EA	Central Processor Unit Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,989.46	97.56
28 46 13 31-0016	EA	120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3) Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.	1,754.92	32.52
28 46 13 31-0017 Remote Annunciators Cabinets (28 46 13 31-0003)				
28 46 13 31-0018	EA	Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCMB/B).....	152.75	32.52
28 46 13 31-0019	EA	Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCMB/B-S)	139.75	26.02
28 46 13 31-0020	EA	Six Position LED/LCD Flush Wallbox (EST3 6ANN/B)	172.22	32.52
28 46 13 31-0021	EA	Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S)	159.22	26.02
28 46 13 31-0022	EA	Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B)	190.48	32.52
28 46 13 31-0023	EA	Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S)	177.48	26.02
28 46 13 31-0024 Audio And Telephone Masters (28 46 13 31-0003)				
28 46 13 31-0025	EA	Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	5,472.78	130.09
28 46 13 31-0026	EA	Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4).....	3,048.38	130.09
28 46 13 31-0027	EA	Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,726.44	130.09
28 46 13 31-0028	EA	Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU)	2,881.69	130.09
28 46 13 31-0029	EA	Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	3,290.75	130.09
28 46 13 31-0030	EA	Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95).....	1,672.77	65.04
28 46 13 31-0031 Battery Distribution Unit (28 46 13 31-0003)				
28 46 13 31-0032	EA	Battery Distribution Unit (EST3 3-BTSEN).....	605.68	475.59
28 46 13 31-0033 Remote Booster Power Supply (28 46 13 31-0003)				
28 46 13 31-0034	EA	6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A)	952.86	97.56
28 46 13 31-0035	EA	10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	1,087.68	97.56
28 46 13 31-0036	EA	10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	1,187.02	97.56
28 46 13 31-0037	EA	Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP)	156.02	32.52
28 46 13 31-0038 Batteries And Battery Cabinets (28 46 13 31-0003)				
28 46 13 31-0039	EA	1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours)).....	118.99	32.52
28 46 13 31-0040	EA	4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours)).....	148.28	32.52
28 46 13 31-0041	EA	24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours)).....	350.35	32.52
28 46 13 31-0042	EA	6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours)).....	160.01	32.52
28 46 13 31-0043	EA	40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours)).....	444.16	32.52
28 46 13 31-0044	EA	10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours)).....	249.97	32.52
28 46 13 31-0045	EA	50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours)).....	901.19	32.52
28 46 13 31-0046	EA	17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours)).....	256.01	32.52
28 46 13 31-0047	EA	65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours)).....	1,084.96	32.52
28 46 13 31-0048	EA	8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours)).....	142.57	32.52
28 46 13 31-0049	EA	10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours)).....	127.94	32.52
28 46 13 31-0050	EA	14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1)..... Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.	456.85	65.04
28 46 13 31-0051	EA	22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2) Note: Holds up to two 12V17A batteries.	377.97	65.04
28 46 13 31-0052	EA	Remote Closet Enclosure (EST3 3-RCC7R)	1,290.69	130.09
28 46 13 31-0053	EA	Remote Closet Enclosure (EST3 3-RCC14R)	1,601.25	130.09
28 46 13 31-0054	EA	Remote Closet Enclosure (EST3 3-RCC21R)	2,245.24	130.09
28 46 13 31-0055 Serial Printer (28 46 13 31-0003)				
28 46 13 31-0056	EA	System Printer - Desk Top Style (EST3 PT-1S)	873.66	32.52
28 46 13 31-0057 Intelligent Analog Initiating Devices (28 46 13 31-0002)				
28 46 13 31-0058 Detectors, Signature (28 46 13 31-0057)				
28 46 13 31-0059	EA	Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS).....	274.22	48.78
28 46 13 31-0060	EA	Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB).....	308.31	48.78
28 46 13 31-0061	EA	Intelligent 3D Multisensor Detector For Photoelectric And Heat (EST3 SIGA-PHS).....	264.06	48.78
28 46 13 31-0062	EA	Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS)	233.59	48.78
28 46 13 31-0063	EA	Intelligent Ionization Smoke Detector (EST3 SIGA-IS)	243.75	48.78
28 46 13 31-0064	EA	135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA-HRS)	199.61	48.78
28 46 13 31-0065	EA	135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA-HFS)	199.61	48.78
28 46 13 31-0066	EA	Passive Infrared Motion Detector (EST3 SIGA-MD).....	317.38	48.78



Electronic Safety and Security			28
Life Safety			28 40
Fire Detection and Alarm			28 46

28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0067 EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS)	350.66	48.78
28 46 13 31-0068 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS)	295.59	48.78
28 46 13 31-0069 EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS)	427.67	48.78
28 46 13 31-0070 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS)	246.29	48.78
28 46 13 31-0071 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS)	246.29	48.78
28 46 13 31-0072 EA Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS)	339.97	48.78
28 46 13 31-0073 Detectors, Duct Housings and Accessories, Signature (28 46 13 31-0057)		
28 46 13 31-0074 EA Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD)	555.10	81.31
28 46 13 31-0075 EA Superduct, Test Magnet Kit (EST3 SD-MAG)	23.94	
28 46 13 31-0076 EA Superduct, 120" Air Sample Tube (EST3 SD-T120)	72.84	19.51
28 46 13 31-0077 EA Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK)	144.90	26.02
28 46 13 31-0078 EA Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS)	196.46	26.02
28 46 13 31-0079 EA High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL)	86.08	26.02
28 46 13 31-0080 Modules, Signature (28 46 13 31-0057)		
28 46 13 31-0081 EA Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB)	258.65	32.52
28 46 13 31-0082 EA Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1)	114.26	32.52
28 46 13 31-0083 EA Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2)	148.59	32.52
28 46 13 31-0084 EA Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2)	231.47	32.52
28 46 13 31-0085 EA Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1)	161.54	32.52
28 46 13 31-0086 EA Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2)	168.66	32.52
28 46 13 31-0087 EA Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR)	132.39	32.52
Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).		
28 46 13 31-0088 EA Control Relay UIO (Plug In) Module (EST3 SIGA-MCR)	201.07	32.52
28 46 13 31-0089 EA Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S)	268.98	32.52
28 46 13 31-0090 EA Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO)	262.16	32.52
28 46 13 31-0091 EA Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO)	252.00	32.52
28 46 13 31-0092 EA Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM)	230.94	198.42
28 46 13 31-0093 EA Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1)	168.69	32.52
Note: Factory programmed for non-latching monitor operation.		
28 46 13 31-0094 EA Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S)	270.09	32.52
28 46 13 31-0095 Module Accessories, Signature (28 46 13 31-0057)		
Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 13 31-0096 EA Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4)	66.64	16.26
28 46 13 31-0097 EA Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6)	228.18	32.52
28 46 13 31-0098 EA Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, -MCC2, - UM And -MAB Modules (EST3 235196P)	24.59	9.75
28 46 13 31-0099 EA Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1- Gang Signature Modules (EST3 SIGA-MP1)	78.40	16.26
28 46 13 31-0100 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1- Gang Signature Modules (EST3 SIGA-MP2)	69.96	16.26
28 46 13 31-0101 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L)	73.29	16.26
28 46 13 31-0102 Single Action Pull Stations, Signature (28 46 13 31-0057)		
28 46 13 31-0103 EA One Stage Fire Alarm Station, English Markings (EST3 SIGA-270)	283.07	67.64
28 46 13 31-0104 EA Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P)	334.03	67.64
28 46 13 31-0105 EA GA Key - For Pre Signal Station (EST3 276-K2)	38.89	32.38
28 46 13 31-0106 EA 20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR)	48.70	42.19
28 46 13 31-0107 EA Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB)	74.05	48.03
28 46 13 31-0108 Double Action Pull Stations, Signature (28 46 13 31-0057)		
28 46 13 31-0109 EA Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278)	207.16	67.64
28 46 13 31-0110 EA 12 Glass Rods For SIGA-278 Series (EST3 276-GLR)	49.43	6.50
28 46 13 31-0111 Detector Bases and Accessories, Signature (28 46 13 31-0057)		
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
28 46 13 31-0112 EA Audible (Sounder) Base (EST3 SIGA-AB4G)	142.02	16.26
28 46 13 31-0113 EA Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB)	53.00	16.26
28 46 13 31-0114 EA Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4)	177.38	16.26
28 46 13 31-0115 EA Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG)	100.60	16.26
28 46 13 31-0116 EA Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DGSB)	117.57	16.26
28 46 13 31-0117 EA Detector Mounting Plate (EST3 SIGA-DMP)	185.50	16.26
Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.		

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28 46 13 31-0118	EA		Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED)	66.64	16.26
28 46 13 31-0119	EA		Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS)	24.73	9.75
28 46 13 31-0120	EA		Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4)	24.73	9.75
28 46 13 31-0121	EA		Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tampers Hardware (EST3 SIGA-DGMF)	70.61	9.75
28 46 13 31-0122	EA		Detector Base With Isolator (EST3 SIGA-IB)	115.85	16.26
28 46 13 31-0123	EA		Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4)	123.13	16.26
28 46 13 31-0124	EA		Detector Base With Form 'C' Relay (EST3 SIGA-RB)	66.20	16.26
28 46 13 31-0125	EA		Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4)	103.16	16.26
28 46 13 31-0126	EA		Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4)	43.53	16.26
28 46 13 31-0127 Controllers, Signature (28 46 13 31-0057)					
28 46 13 31-0128	EA		Signature Dual Driver Controller (EST3 3-SDDC1)	3,924.80	97.56
28 46 13 31-0129	EA		Single Signature Loop Controller (EST3 3-SSDC1)	2,250.46	97.56
28 46 13 31-0130	EA		Signature Loop Controller (EST3 3-SDC1)	2,021.92	97.56
28 46 13 31-0131	EA		Analog Addressable Loop Controller (EST3 3-AADC1)	3,239.78	97.56
28 46 13 31-0132 Relays And Accessories (28 46 13 31-0057)					
28 46 13 31-0133	EA		Multi Voltage Relay (EST3 MR101)	208.80	32.52
28 46 13 31-0134	EA		Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T)	62.31	16.26
28 46 13 31-0135 Notification Appliances (28 46 13 31-0002)					
28 46 13 31-0136 Wall Strobes, Horns And Chimes (28 46 13 31-0135)					
28 46 13 31-0137	EA		Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM)	170.18	48.78
28 46 13 31-0138	EA		Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1R-VM)	170.18	48.78
28 46 13 31-0139	EA		Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM)	193.83	48.78
28 46 13 31-0140	EA		Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD)	143.53	48.78
28 46 13 31-0141	EA		Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1R-HD)	143.53	48.78
28 46 13 31-0142	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD)	143.53	48.78
28 46 13 31-0143	EA		Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD)	143.53	48.78
28 46 13 31-0144	EA		Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P)	121.14	48.78
28 46 13 31-0145	EA		Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1R-P)	121.14	48.78
28 46 13 31-0146	EA		Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P)	121.14	48.78
28 46 13 31-0147	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM)	290.37	48.78
28 46 13 31-0148	EA		Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1R-CVM)	290.37	48.78
28 46 13 31-0149	EA		Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C)	190.95	48.78
28 46 13 31-0150	EA		Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1R-C)	190.95	48.78
28 46 13 31-0151	EA		Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575)	170.18	48.78
28 46 13 31-0152	EA		Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM)	170.18	48.78
28 46 13 31-0153	EA		Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM)	170.18	48.78
28 46 13 31-0154	EA		Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575)	170.18	48.78
28 46 13 31-0155	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM)	176.83	48.78
28 46 13 31-0156	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM)	176.83	48.78
28 46 13 31-0157	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VMH)	192.38	48.78
28 46 13 31-0158	EA		Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM)	176.83	48.78
28 46 13 31-0159	EA		Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH)	176.83	48.78
28 46 13 31-0160	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE)	106.58	48.78
28 46 13 31-0161	EA		Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE)	106.58	48.78
28 46 13 31-0162 Wall Speakers And Speaker Strobes (28 46 13 31-0135)					
28 46 13 31-0163	EA		Multi-Wattage 25 VRMS Speaker (EST3 G4-S2)	141.52	48.78
28 46 13 31-0164	EA		Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM)	216.54	48.78
28 46 13 31-0165	EA		Multi-Wattage 70 VRMS Speaker (EST3 G4-S7)	141.52	48.78
28 46 13 31-0166	EA		Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM)	216.54	48.78
28 46 13 31-0167	EA		Surface Box, White, For Genesis Speaker (EST3 G4B)	70.32	26.02
28 46 13 31-0168	EA		Surface Box, Red, For Genesis Speaker (EST3 G4RB)	70.32	26.02
28 46 13 31-0169 Ceiling Speakers And Speaker Strobes (28 46 13 31-0135)					
28 46 13 31-0170	EA		Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7)	168.73	48.78
28 46 13 31-0171	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM)	216.54	48.78
28 46 13 31-0172	EA		Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC- S7VMH)	231.68	48.78
28 46 13 31-0173 Harsh Environment Signals (28 46 13 31-0135)					
28 46 13 31-0174	EA		Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T)	150.11	48.78
28 46 13 31-0175	EA		15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T)	209.82	48.78
28 46 13 31-0176	EA		110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T)	209.82	48.78
28 46 13 31-0177	EA		15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T)	192.07	48.78
28 46 13 31-0178	EA		15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T)	180.27	48.78
28 46 13 31-0179	EA		30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T)	192.07	48.78
28 46 13 31-0180	EA		60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T)	192.07	48.78



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0181 EA 110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	192.07	48.78
28 46 13 31-0182 EA 15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	212.40	55.29
28 46 13 31-0183 EA 110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	212.40	55.29
28 46 13 31-0184 EA 15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	157.31	48.78
28 46 13 31-0185 EA 30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	204.15	48.78
28 46 13 31-0186 Fire Alarm Bells (28 46 13 31-0135)		
28 46 13 31-0187 EA 10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	226.38	48.78
28 46 13 31-0188 EA 6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	181.79	48.78
28 46 13 31-0189 EA 10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	200.82	48.78
28 46 13 31-0190 Multiple Tone Signal (28 46 13 31-0135)		
28 46 13 31-0191 EA 27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	1,435.61	1,386.83
28 46 13 31-0192 Multi-Purpose Loudspeaker (28 46 13 31-0135)		
28 46 13 31-0193 EA 15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	297.50	48.78
28 46 13 31-0194 EA 15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	297.50	48.78
28 46 13 31-0195 Bell/Strobe Plate (28 46 13 31-0135)		
28 46 13 31-0196 EA Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	150.59	26.02
28 46 13 31-0197 Mounting Accessories (28 46 13 31-0135)		
28 46 13 31-0198 EA Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	71.70	26.02
28 46 13 31-0199 EA One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	71.70	26.02
28 46 13 31-0200 EA Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	71.70	26.02
28 46 13 31-0201 EA Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	71.70	26.02
28 46 13 31-0202 EA Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	71.70	26.02
28 46 13 31-0203 Firefighters' Telephones (28 46 13 31-0135)		
28 46 13 31-0204 EA Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	1,288.11	81.31
28 46 13 31-0205 EA Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	725.37	81.31
28 46 13 31-0206 EA Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	522.72	81.31
28 46 13 31-0207 EA Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	381.44	81.31
28 46 13 31-0208 EA Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	700.15	81.31
28 46 13 31-0209 EA Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	431.86	81.31
28 46 13 31-0210 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	789.46	81.31
28 46 13 31-0211 EA Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	448.67	81.31
28 46 13 31-0212 EA Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	903.82	81.31
28 46 13 31-0213 EA Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	99.20	26.02
28 46 13 31-0214 EA Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	113.83	26.02
28 46 13 31-0215 EA Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	158.54	
28 46 13 31-0216 EA Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	158.54	
28 46 13 31-0217 EA Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1).....	240.61	32.52
28 46 13 31-0218 EA Frontplate - Flush Mount, Red Finish, Non-Break Glass Type With Two Keys (EST3 6831-2).....	298.84	32.52
28 46 13 31-0219 EA Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	211.49	32.52
28 46 13 31-0220 EA Frontplate - Surface Mount, Red Finish, Non-Break Glass Type, With Two Keys (EST3 6831-4).....	202.93	32.52
28 46 13 31-0221 EA Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	150.76	48.78
28 46 13 31-0222 EA Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	1,329.11	65.04
28 46 13 31-0223 Mass Notification EC Appliances (28 46 13 31-0135)		
28 46 13 31-0224 EA G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	176.88	48.78
28 46 13 31-0225 EA G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	170.83	48.78
28 46 13 31-0226 EA G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	176.88	48.78
28 46 13 31-0227 EA G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	170.83	48.78
28 46 13 31-0228 EA G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	26.74	9.75
28 46 13 31-0229 Hazardous Location Devices (28 46 13 31-0002)		
28 46 13 31-0230 Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location (28 46 13 31-0229)		
28 46 13 31-0231 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135).....	153.85	48.78
28 46 13 31-0232 EA Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194).....	153.85	48.78
28 46 13 31-0233 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135).....	159.92	48.78
28 46 13 31-0234 EA Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194).....	159.92	48.78
28 46 13 31-0235 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135).....	215.98	48.78
28 46 13 31-0236 EA Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194).....	215.98	48.78

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0237 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135).....	159.92	48.78
28 46 13 31-0238 EA Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	159.92	48.78
28 46 13 31-0239 Hazardous Locations Fire Alarm Station (28 46 13 31-0229)		
28 46 13 31-0240 EA Hazardous Location Fire Alarm Station (EST3 XAL53)	1,364.41	81.31
28 46 13 31-0241 EA Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPGT (EST3 MPSR1-D45WX-GE)	1,299.11	81.31
28 46 13 31-0242 Hazardous Location Strobes (28 46 13 31-0229)		
28 46 13 31-0243 EA Explosion Proof Strobe (EST3 116DEXSTC-FJ)	2,024.34	48.78
28 46 13 31-0244 EA Wall Bracket Mounting Elbow (EST3 116EX-B).....	378.17	16.26
28 46 13 31-0245 EA Ceiling / Wall Mounting Module (EST3 116EX-C).....	494.66	19.51
28 46 13 31-0246 EA Pendant Mounting Module (EST3 116EX-P)	363.25	19.51
28 46 13 31-0247 Hazardous Location Bells (28 46 13 31-0229)		
28 46 13 31-0248 EA 6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW)	1,461.48	48.78
28 46 13 31-0249 EA 8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW)	1,499.28	48.78
28 46 13 31-0250 EA 10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW)	1,512.89	48.78
28 46 13 31-0251 Hazardous Location Horns (28 46 13 31-0229)		
28 46 13 31-0252 EA Hazardous Location Horns (EST3 888D-N5).....	1,428.91	48.78
28 46 13 31-0253 EA Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW).....	1,167.34	48.78
28 46 13 31-0254 Door Holders And Relays (28 46 13 31-0002)		
28 46 13 31-0255 Electromagnetic Door Holders (28 46 13 31-0254)		
28 46 13 31-0256 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5).....	257.53	48.78
28 46 13 31-0257 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5).....	333.39	48.78
28 46 13 31-0258 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5)	218.79	48.78
28 46 13 31-0259 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5)	218.79	48.78
28 46 13 31-0260 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5).....	222.30	48.78
28 46 13 31-0261 EA 24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5).....	225.63	48.78
28 46 13 31-0262 Control Relays, Multi-Voltage (28 46 13 31-0254)		
28 46 13 31-0263 EA Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1).....	52.06	9.75
28 46 13 31-0264 FireShield Plus (28 46 13 31-0002)		
28 46 13 31-0265 3 Zone System (28 46 13 31-0264)		
28 46 13 31-0266 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R)	1,400.21	390.27
28 46 13 31-0267 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD)	2,038.25	520.35
28 46 13 31-0268 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G).....	1,400.21	390.27
28 46 13 31-0269 EA Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD).....	2,038.25	520.35
28 46 13 31-0270 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	97.89	16.26
28 46 13 31-0271 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	97.89	16.26
28 46 13 31-0272 5 Zone System (28 46 13 31-0264)		
28 46 13 31-0273 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R)	1,506.01	390.27
28 46 13 31-0274 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD)	2,138.00	520.35
28 46 13 31-0275 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G).....	1,506.01	390.27
28 46 13 31-0276 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD).....	2,138.00	520.35
28 46 13 31-0277 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G)	97.89	16.26
28 46 13 31-0278 EA Semi-Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	97.89	16.26
28 46 13 31-0279 10 Zone System (28 46 13 31-0264)		
28 46 13 31-0280 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R)	2,174.28	520.35



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0281	EA		Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD)	2,812.32	650.43
28 46 13 31-0282	EA		Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G).....	2,128.94	520.35
28 46 13 31-0283	EA		Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD).....	2,812.32	650.43
28 46 13 31-0284	EA		Semi-Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G)	114.26	16.26
28 46 13 31-0285	EA		NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120)	208.98	32.52
28 46 13 31-0286			FireShield Plus Off Premise Communication Options (28 46 13 31-0264)		
28 46 13 31-0287	EA		F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT)	458.01	32.52
28 46 13 31-0288			FireShield Plus Remote LED Annunciators (28 46 13 31-0264)		
28 46 13 31-0289	EA		Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI)	195.65	48.78
28 46 13 31-0290	EA		Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A).....	195.65	48.78
28 46 13 31-0291	EA		Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA).....	203.36	48.78
28 46 13 31-0292	EA		Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2)	39.17	9.75
28 46 13 31-0293	EA		Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3)	49.04	9.75
28 46 13 31-0294	EA		Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4)	72.74	9.75
28 46 13 31-0295			FireShield Plus Remote 10 Zone LED Annunciators (28 46 13 31-0264)		
28 46 13 31-0296	EA		Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10).....	611.45	48.78
28 46 13 31-0297	EA		Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C).....	671.91	48.78
28 46 13 31-0298	EA		Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1).....	216.18	32.52
28 46 13 31-0299			FireShield Plus Remote Relays And Interfaces (28 46 13 31-0264)		
28 46 13 31-0300	EA		Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24).....	228.52	32.52
28 46 13 31-0301	EA		11" Snap Track Holds 2-4 RRRMs, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S11).....	94.72	19.51
28 46 13 31-0302	EA		Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM).....	364.30	32.52
28 46 13 31-0303			FireShield Plus Accessories (28 46 13 31-0264)		
28 46 13 31-0304	EA		Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1).....	21.31	
28 46 13 31-0305	EA		4.7k UL End Of Line Resistor With Fireshield Panels (EST3 EOL47PK7).....	13.04	
28 46 13 31-0306			iO Series Fire Control Panels (28 46 13 31-0002)		
28 46 13 31-0307			Intelligent Analog Control Panels (28 46 13 31-0306)		
28 46 13 31-0308	EA		FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 iO500G)	4,197.83	650.43
28 46 13 31-0309	EA		FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO500GD)	4,491.05	650.43
28 46 13 31-0310	EA		FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 iO64G)	3,351.01	520.35
28 46 13 31-0311	EA		FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 iO64GD)	3,487.04	520.35
28 46 13 31-0312			Option Modules And Accessories For iO Series (28 46 13 31-0306)		
28 46 13 31-0313	EA		16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1).....	399.85	48.78
28 46 13 31-0314	EA		16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2)	248.70	48.78
28 46 13 31-0315	EA		Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232)	248.70	48.78
28 46 13 31-0316	EA		Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA)	216.18	32.52
28 46 13 31-0317	EA		Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT).....	445.01	26.02
28 46 13 31-0318	EA		Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH).....	807.76	26.02
28 46 13 31-0319	EA		Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1)	96.00	16.26
28 46 13 31-0320	EA		Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2)	111.11	16.26
28 46 13 31-0321	EA		Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250).....	1,490.38	65.04
28 46 13 31-0322			Remote Annunciators For iO Series (28 46 13 31-0306)		

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0323	EA	Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD)	815.48	48.78	
28 46 13 31-0324	EA	Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C)	853.28	48.78	
28 46 13 31-0325 Remote Annunciator Accessories (28 46 13 31-0306)					
28 46 13 31-0326	EA	24 Expander Cable Assembly, With Cable And Hardware (EST3 730073)	92.98	16.26	
28 46 13 31-0327	EA	12 Expander Cable (Cable Only) (EST3 7120313-01)	62.75	16.26	
28 46 13 31-0328	EA	24 Expander Cable (Cable Only) (EST3 7120313-02)	85.41	16.26	
28 46 13 31-0329	EA	Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1)	248.70	48.78	
28 46 13 31-0330	EA	Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2)	286.48	48.78	
28 46 13 31-0331	EA	Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3)	324.28	48.78	
28 46 13 31-0332	EA	Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC)	62.75	16.26	
28 46 13 31-0333	EA	Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC)	62.75	16.26	
28 46 13 31-0334	EA	Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY)	128.79	16.26	
28 46 13 31-0335 System Accessories (28 46 13 31-0306)					
28 46 13 31-0336	EA	Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1)	456.85	65.04	
28 46 13 31-0337	EA	Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A)	2,072.10	520.35	
28 46 13 31-0338 Conventional Initiating Devices (28 46 13 31-0002)					
28 46 13 31-0339 Detectors, Heat, Double Pole (28 46 13 31-0338)					
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.					
28 46 13 31-0340	EA	Heat Detector, 135 Degree F Fixed Temperature (CF135-2)	179.01	48.78	
28 46 13 31-0341	EA	Heat Detector, 200 Degree F Fixed Temperature (CF200-2)	179.01	48.78	
28 46 13 31-0342	EA	Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2)	179.01	48.78	
28 46 13 31-0343	EA	Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2)	179.01	48.78	
28 46 13 31-0344 Detectors, Rate Compensation Heat, Accessories (28 46 13 31-0338)					
28 46 13 31-0345	EA	Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P)	110.09	48.78	
28 46 13 31-0346	EA	Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11)	299.12	26.02	
28 46 13 31-0347	EA	4" Weatherproof, Octagon Back Box And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27)	94.49	32.52	
28 46 13 31-0348 Detectors, Heat, Fire-Lite (28 46 13 31-0338)					
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.					
28 46 13 31-0349	EA	Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135)	167.38	48.78	
28 46 13 31-0350	EA	Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194)	167.38	48.78	
28 46 13 31-0351 Audio Notification Systems (Standalone Voice Evacuation) (28 46 13 31-0002)					
28 46 13 31-0352 Audio Notification Panels (28 46 13 31-0351)					
28 46 13 31-0353	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG)	5,789.85	650.43	
28 46 13 31-0354	EA	Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR)	5,789.85	650.43	
28 46 13 31-0355	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG)	4,323.76	650.43	
28 46 13 31-0356	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR)	4,323.76	650.43	
28 46 13 31-0357	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG)	5,049.24	650.43	
28 46 13 31-0358	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR)	5,049.24	650.43	
28 46 13 31-0359 Audio Notification Expander Panels (28 46 13 31-0351)					
28 46 13 31-0360	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG)	4,444.67	650.43	
28 46 13 31-0361	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR)	4,444.67	650.43	
28 46 13 31-0362	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG)	3,023.92	650.43	
28 46 13 31-0363	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR)	3,023.92	650.43	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0364 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG)	3,855.21	650.43
28 46 13 31-0365 EA Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR).....	3,855.21	650.43
28 46 13 31-0366 Audio Notification Output Accessories (28 46 13 31-0351)		
28 46 13 31-0367 EA Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B)	168.55	16.26
28 46 13 31-0368 EA Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A).....	745.19	32.52
28 46 13 31-0369 EA Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B).....	745.19	32.52
28 46 13 31-0370 EA Class A Converter (GE ANSZSC4A)	533.59	32.52
28 46 13 31-0371 Audio Notification Remote Microphone (28 46 13 31-0351)		
28 46 13 31-0372 EA Microphone (GE ANSMIKE)	201.07	32.52
28 46 13 31-0373 EA Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG).....	820.76	32.52
28 46 13 31-0374 EA Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR).....	820.76	32.52
28 46 13 31-0375 EA Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP).....	183.66	16.26
28 46 13 31-0376 EA Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR)	100.52	16.26
28 46 13 31-0377 Audio Notification Accessories (28 46 13 31-0351)		
28 46 13 31-0378 EA Audio Matching - Line Input/Output Card (GE ANSAUX)	337.10	32.52
28 46 13 31-0379 EA Class B Backup Amplifier Switching Module (GE ANSBKUP).....	337.10	32.52
28 46 13 31-0380 EA Class A Backup Amplifier Switching Module (GE ANSBKUPA).....	337.10	32.52
28 46 13 31-0381 EA Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANRSI8)	745.19	32.52
28 46 13 31-0382 Audio Notification Modules, Without Cabinet And Transformer (28 46 13 31-0351)		
28 46 13 31-0383 EA 100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A)	2,714.65	65.04
Note: Excludes cabinet.		
28 46 13 31-0384 EA 100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM).....	2,850.68	65.04
Note: Excludes cabinet.		
28 46 13 31-0385 EA 100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD).....	3,938.91	65.04
Note: Excludes cabinet.		
28 46 13 31-0386 EA 25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A)	1,490.38	65.04
Note: Excludes cabinet.		
28 46 13 31-0387 EA 25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM)	1,490.38	65.04
Note: Excludes cabinet.		
28 46 13 31-0388 EA 25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD).....	2,714.65	65.04
28 46 13 31-0389 EA 50W Expander Module (No Microphone Or DMR) (GE ANS50A)	2,170.53	65.04
Note: Excludes cabinet.		
28 46 13 31-0390 EA 50W Expander Module With Microphone (No DMR) (GE ANS50AM)	2,306.56	65.04
Note: Excludes cabinet.		
28 46 13 31-0391 EA 50W Audio Notification Module With DMR And Microphone (GE ANS50AMD).....	3,394.79	65.04
Note: Excludes cabinet.		
28 46 13 31-0392 EA Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180).....	168.55	16.26
28 46 13 31-0393 EA Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885).....	124.78	16.26
28 46 13 31-0394 Simplex Fire Alarm (28 46 13 31)		
28 46 13 31-0395 4100 Fire Alarm Control Panel (28 46 13 31-0394)		
28 46 13 31-0396 EA 4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111)	7,178.18	648.95
28 46 13 31-0397 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACS Disabled), 120 Volt AC Input (Simplex 4100-9141)	7,834.60	648.95
28 46 13 31-0398 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACS Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142)	11,272.58	648.95
28 46 13 31-0399 EA Up To 127 Points, IDNet Module, (Simplex 4100-3104).....	4,598.60	648.95
Note: Add-on module.		
28 46 13 31-0400 EA Up To 64 Points, IDNet Module, (Simplex 4100-3105).....	3,597.52	648.95
Note: Add-on module.		
28 46 13 31-0401 EA Expansion Power Supply, 3 NACS, 120 Volt AC (Simplex 4100-5101)	2,288.99	162.24
Note: Add-on module.		
28 46 13 31-0402 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033)	478.83	32.45
Note: Add-on module.		
28 46 13 31-0403 EA Dual Port RS-232 Interface Card (Simplex 4100-6038).....	1,374.59	32.45
Note: Add-on module.		

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0404		4100U Back Box (28 46 13 31-0394)		
28 46 13 31-0405	EA	2 Bay Back Box With Glass Door And Dress Panel (Simplex 2975-9425)..... Note: 24" x 40" beige backbox.	2,383.55	129.79
28 46 13 31-0406	EA	3 Bay Back Box With Glass Door And Dress Panel (Simplex 2975-9443)..... Note: 24" x 56" beige backbox.	3,357.47	129.79
28 46 13 31-0407		DACT (Digital Alarm Communicator Transmitter) (28 46 13 31-0394)		
28 46 13 31-0408	EA	6 Zone Fire Control Communicator (Silent Knight SK-5104)	1,305.11	64.89
28 46 13 31-0409		4010 Fire Alarm Control Panel (28 46 13 31-0394)		
28 46 13 31-0410	EA	120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101)	6,775.77	648.95
28 46 13 31-0411	EA	240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201)	6,576.16	648.95
28 46 13 31-0412	EA	Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806)	246.15	32.45
28 46 13 31-0413	EA	Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811)	1,070.64	32.45
28 46 13 31-0414	EA	Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812)	1,472.23	32.45
28 46 13 31-0415	EA	120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813)	756.13	32.45
28 46 13 31-0416	EA	240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823)	818.30	32.45
28 46 13 31-0417	EA	Battery Meter Module Expansion Module (Simplex 4010-9820)	306.55	32.45
28 46 13 31-0418		Printer (28 46 13 31-0394)		
28 46 13 31-0419	EA	24 Pin Dot Matrix Printer (Simplex 4190-9013)	2,371.50	32.45
28 46 13 31-0420		NAC Panel / Power Booster (28 46 13 31-0394)		
28 46 13 31-0421	EA	120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009- 9201)	1,530.58	162.24
		Note: Power supply for horns and strobes.		
28 46 13 31-0422		Battery (28 46 13 31-0394)		
28 46 13 31-0423	EA	50 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9296)	958.59	32.45
		Note: Two required for 24 volt DC.		
28 46 13 31-0424	EA	33 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9276)	636.53	32.45
		Note: Two required for 24 volt DC.		
28 46 13 31-0425	EA	6.2 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9272)	228.61	32.45
		Note: Two required for 24 volt DC.		
28 46 13 31-0426		Interface Modules (28 46 13 31-0394)		
28 46 13 31-0427	EA	Supervised Individual Addressable Modules (Simplex 4090-9001)	184.35	32.45
		Note: Monitor modules for waterflow / tamper, etc.		
28 46 13 31-0428	EA	Relay Individual Addressable Modules (Simplex 4090-9002)	383.14	32.45
		Note: Control modules for gas shutdown, door holders, etc.		
28 46 13 31-0429	EA	Relay SPDT With LED MR-801/T (Simplex 2088-9032)	90.69	32.45
		Note: Interface relay for 120VAC		
28 46 13 31-0430	EA	SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815)	186.54	32.45
28 46 13 31-0431	EA	Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817)	82.95	16.22
28 46 13 31-0432	EA	Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818)	78.75	16.22
28 46 13 31-0433		Pull Stations (28 46 13 31-0394)		
28 46 13 31-0434	EA	Addressable Single Action Manual Pull Station (Simplex 4099-9001)	226.99	32.45
28 46 13 31-0435	EA	N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101)	161.71	32.45
28 46 13 31-0436	EA	N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102)	174.32	32.45
28 46 13 31-0437	EA	Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103)	156.02	32.45
28 46 13 31-0438	EA	N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099- 9104)	182.75	32.45
28 46 13 31-0439	EA	N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099- 9105)	278.80	32.45
28 46 13 31-0440	EA	Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099- 9107)	233.25	32.45
28 46 13 31-0441	EA	Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108)	275.35	32.45
28 46 13 31-0442	EA	Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754)	126.63	32.45
28 46 13 31-0443	EA	Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755)	134.33	32.45
28 46 13 31-0444	EA	Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756)	159.14	32.45
28 46 13 31-0445	EA	N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758)	249.30	32.45
28 46 13 31-0446	EA	Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759)	433.69	32.45
28 46 13 31-0447	EA	Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762)	140.66	32.45
28 46 13 31-0448	EA	Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178)	87.18	16.22



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0449	Weatherproof Pull Stations (28 46 13 31-0394)			
28 46 13 31-0450	EA	Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138)	221.01	38.94
28 46 13 31-0451	EA	Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211)	143.10	16.22
28 46 13 31-0452	Heat / Smoke Sensor (28 46 13 31-0394)			
28 46 13 31-0453	EA	32 To 122 Degree F Heat Sensor (Simplex 4098-9733)	221.33	48.67
28 46 13 31-0454	EA	Photoelectric Smoke Sensor (Simplex 4098-9714)	324.66	48.67
28 46 13 31-0455	EA	Sensor Base With Relay Driver (Simplex 4098-9791)	640.60	16.22
28 46 13 31-0456	EA	Standard Sensor Base (Simplex 4098-9792)	324.74	16.22
28 46 13 31-0457	EA	Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737)	185.12	32.45
Note: Relay for 4098-9791				
28 46 13 31-0458	Explosion Proof Heat Detector (28 46 13 31-0394)			
28 46 13 31-0459	EA	135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488)	234.55	48.67
28 46 13 31-0460	EA	Explosion Proof Back Box (Killark JLX-21)	154.54	16.22
28 46 13 31-0461	EA	Explosion Proof Back Box Plugs (Killark CUP-2)	13.95	3.24
28 46 13 31-0462	Weatherproof Heat Detector (28 46 13 31-0394)			
28 46 13 31-0463	EA	194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490)	168.16	48.67
28 46 13 31-0464	200 Degree F Heat Detector (28 46 13 31-0394)			
28 46 13 31-0465	EA	194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604)	138.48	48.67
Note: Used in kiln rooms and kitchens.				
28 46 13 31-0466	Duct Smoke Sensor (28 46 13 31-0394)			
28 46 13 31-0467	EA	Duct Sensor Housing (Simplex 4098-9755)	516.69	25.96
28 46 13 31-0468	EA	Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756)	694.49	58.40
Note: Relay output for AHU shutdown.				
28 46 13 31-0469	EA	46" To 71" Duct Sampling Tube (Simplex 2098-9798)	76.36	16.22
Note: 25", 49", 73" or 97" sampling tube length.				
28 46 13 31-0470	EA	Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806)	180.68	48.67
28 46 13 31-0471	Interior Horn (28 46 13 31-0394)			
28 46 13 31-0472	EA	Red With White FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850)	166.87	48.67
28 46 13 31-0473	EA	White With Red FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853)	166.87	48.67
28 46 13 31-0474	Interior Horn Strobe (28 46 13 31-0394)			
28 46 13 31-0475	EA	75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426)	232.53	48.67
28 46 13 31-0476	EA	110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427)	232.53	48.67
28 46 13 31-0477	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127)	217.55	48.67
28 46 13 31-0478	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128)	217.55	48.67
28 46 13 31-0479	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129)	217.55	48.67
28 46 13 31-0480	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130)	217.55	48.67
28 46 13 31-0481	EA	Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131)	222.57	48.67
28 46 13 31-0482	EA	Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132)	222.57	48.67
28 46 13 31-0483	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139)	231.40	48.67
28 46 13 31-0484	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140)	227.33	48.67
28 46 13 31-0485	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141)	231.40	48.67
28 46 13 31-0486	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142)	227.33	48.67
28 46 13 31-0487	EA	Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227)	217.55	48.67
28 46 13 31-0488	EA	Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228)	217.55	48.67
28 46 13 31-0489	EA	Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229)	217.55	48.67
28 46 13 31-0490	EA	Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230)	217.55	48.67
28 46 13 31-0491	Interior Strobe (28 46 13 31-0394)			
28 46 13 31-0492	EA	Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101)	185.73	48.67

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0493 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	185.73	48.67
28 46 13 31-0494 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103).....	185.66	48.67
28 46 13 31-0495 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	185.73	48.67
28 46 13 31-0496 EA Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105).....	204.76	48.67
28 46 13 31-0497 EA Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106).....	204.76	48.67
28 46 13 31-0498 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	205.98	48.67
28 46 13 31-0499 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	209.30	48.67
28 46 13 31-0500 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111).....	209.30	48.67
28 46 13 31-0501 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	209.30	48.67
28 46 13 31-0502 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	185.73	48.67
28 46 13 31-0503 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	185.73	48.67
28 46 13 31-0504 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	185.73	48.67
28 46 13 31-0505 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	185.73	48.67
28 46 13 31-0506 Interior Speakers (28 46 13 31-0394)		
28 46 13 31-0507 EA Red With White FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	150.76	48.67
28 46 13 31-0508 EA White With Red FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	150.76	48.67
28 46 13 31-0509 EA Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	150.76	48.67
28 46 13 31-0510 Interior Speaker Strobe (28 46 13 31-0394)		
28 46 13 31-0511 EA Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151).....	247.36	48.67
28 46 13 31-0512 EA White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153).....	247.36	48.67
28 46 13 31-0513 Surge Suppressors (28 46 13 31-0394)		
28 46 13 31-0514 EA Overvoltage Suppressor (Simplex 2081-9044).....	161.17	9.73
28 46 13 31-0515 EA Isolated Loop Circuit Protector (Simplex 2081-9028).....	102.86	9.73
28 46 13 31-0516 EA 120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	345.94	9.73
28 46 13 31-0517 EA 24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHL24B).....	117.88	9.73
28 46 13 31-0518 EA Mounting Base For Two DTK-2MHL (Ditek DTK-2MB).....	177.55	16.22
28 46 13 31-0519 EA 120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	120.86	9.73
28 46 13 31-0520 EA <105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	90.81	9.73
28 46 13 31-0521 Boxes And Adapters (28 46 13 31-0394)		
28 46 13 31-0522 EA Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	78.75	16.22
28 46 13 31-0523 EA Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	74.54	16.22
28 46 13 31-0524 EA Red, Surface Mount Adapter Skirt (Simplex 4905-9937).....	66.29	16.22
28 46 13 31-0525 EA White, Surface Mount Adapter Skirt (Simplex 4905-9940).....	54.58	16.22
28 46 13 31-0526 Accessories (28 46 13 31-0394)		
28 46 13 31-0527 EA End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008).....	37.34	16.22
28 46 13 31-0528 Siemens Fire Alarm (28 46 13 31)		
28 46 13 31-0529 Conventional Control Panels (28 46 13 31-0528)		
28 46 13 31-0530 SXL Batteries And Power Supplies (28 46 13 31-0529)		
28 46 13 31-0531 EA 6 Amperes Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3).....	1,363.12	64.89
28 46 13 31-0532 EA Main Board Only For PAD-3 (Siemens PAD-3-MB).....	1,097.11	64.89
28 46 13 31-0533 Digital Fire Communicators (28 46 13 31-0529)		
28 46 13 31-0534 EA Four Channel Digital Slave Fire Communicator (Siemens 5129).....	1,062.04	64.89
28 46 13 31-0535 Addressable Control Panels (28 46 13 31-0528)		
28 46 13 31-0536 Fireseeker Equipment (28 46 13 31-0535)		
28 46 13 31-0537 FS-250 System Panels (28 46 13 31-0536)		



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0538 EA FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT).....	3,251.90	648.95
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 13 31-0539 EA FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT).....	4,064.45	648.95
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0540 EA FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT).....	2,416.76	519.16
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0541 EA Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON).....	3,256.73	648.95
28 46 13 31-0542 FS-250 Optional Modules (28 46 13 31-0536)		
28 46 13 31-0543 EA Main Board Module (Siemens FS-MB2).....	1,372.80	64.89
28 46 13 31-0544 EA Display Board Module (Siemens FS-DB2).....	1,070.90	32.45
28 46 13 31-0545 EA Device Loop Card (Siemens FS-DLC).....	877.44	32.45
28 46 13 31-0546 EA Releasing Module (Siemens FS-REL).....	388.94	32.45
28 46 13 31-0547 EA Remote LCD Annunciator (Siemens FS-RD2).....	871.39	32.45
28 46 13 31-0548 EA Relay Processor Card (Siemens FS-RU2).....	756.52	32.45
28 46 13 31-0549 EA Relay Expander Board (Siemens FS-RE8).....	645.28	32.45
28 46 13 31-0550 EA Serial Annunciator Processor Card (Siemens FS-SAU2).....	871.39	32.45
28 46 13 31-0551 EA 16 Output Annunciator Extender (Siemens FS-SAE16).....	679.14	32.45
28 46 13 31-0552 EA Digital Alarm Communication Transmitter (Siemens FS-DACT).....	617.47	32.45
28 46 13 31-0553 EA Municipal Tie Module (Siemens FS-MT).....	524.37	32.45
28 46 13 31-0554 EA Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2).....	476.82	
28 46 13 31-0555 EA Programming Cable Kit (Siemens CBL-UD).....	125.55	16.22
28 46 13 31-0556 EA Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE).....	225.71	32.45
28 46 13 31-0557 EA Releasing Power Transformer (Siemens FS-RPT-A).....	229.33	32.45
28 46 13 31-0558 EA Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB).....	259.89	25.96
28 46 13 31-0559 EA Cabinet Trim Kit (Siemens RD-CAB-TK).....	424.21	16.22
28 46 13 31-0560 Firefinder Systems (28 46 13 31-0535)		
28 46 13 31-0561 XLS Basic Fire System Packages Without Back Box (28 46 13 31-0560)		
28 46 13 31-0562 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP).....	11,486.69	648.95
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0563 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP).....	10,105.84	648.95
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0564 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP).....	10,105.84	648.95
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0565 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD).....	16,968.98	648.95
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 13 31-0566 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD).....	17,542.11	648.95
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
28 46 13 31-0567 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP).....	9,966.79	648.95
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0568 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	9,966.79	648.95
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0569 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	11,582.21	648.95
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0570 Firefinder - XLS Basic System Equipment (28 46 13 31-0560)		
28 46 13 31-0571 EA Person Machine Interface With Central Processor (Siemens PMI).....	5,328.01	648.95
Note: Includes inner door.		
28 46 13 31-0572 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	8,896.21	648.95
Note: Includes inner door.		
28 46 13 31-0573 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	5,328.01	648.95
Note: Includes inner door.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0574 EA Two Slot Card Cage (Siemens CC-2).....	664.63	32.45
28 46 13 31-0575 EA Five Slot Card Cage (Siemens CC-5).....	1,125.31	32.45
28 46 13 31-0576 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	1,608.97	32.45
28 46 13 31-0577 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	1,680.31	32.45
28 46 13 31-0578 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	529.20	32.45
28 46 13 31-0579 EA Device Loop Card (Siemens DLC).....	1,907.63	32.45
Note: Interfaces with up to 252 detectors and devices.		
28 46 13 31-0580 EA Controllable Relay Card (Siemens CRC-6).....	1,079.37	32.45
Note: Provides six programmable relays.		
28 46 13 31-0581 EA 12 Amperes Power Supply Charger Module (Siemens PSC-12).....	4,094.99	32.45
28 46 13 31-0582 EA Person Machine Interface With Central Processor And GPMI-UK Software Upgrade Kit (Siemens GPMI).....	6,941.01	648.95
Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 13 31-0583 EA Network Interface Card (Siemens NIC-C).....	1,263.16	32.45
Note: Provides HNET Or XNET communication between enclosures.		
28 46 13 31-0584 EA 12 Amperes Power Supply Extender (Siemens PSX-12).....	3,405.77	32.45
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 13 31-0585 EA Power Termination Board (Siemens PTB).....	572.73	32.45
Note: Used with systems requiring more than one PSX-12.		
28 46 13 31-0586 EA Conventional Detector Card (Siemens CDC-4).....	1,217.21	32.45
28 46 13 31-0587 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	2,386.46	32.45
28 46 13 31-0588 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	8,586.98	32.45
28 46 13 31-0589 Remote Lobby Enclosure (28 46 13 31-0560)		
28 46 13 31-0590 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	1,573.93	129.79
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0591 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	2,033.40	129.79
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0592 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	249.89	32.45
Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 13 31-0593 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	272.86	32.45
Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
28 46 13 31-0594 Battery Enclosures (28 46 13 31-0560)		
28 46 13 31-0595 EA Enclosure For 100 Ampere Hours Batteries (Siemens CAB-BATT).....	974.19	129.79
28 46 13 31-0596 Graphic Annunciator Output Drivers And Inputs (28 46 13 31-0560)		
28 46 13 31-0597 EA Output Control Module (Siemens OCM-16).....	779.50	32.45
28 46 13 31-0598 EA Supervised Input Module (Siemens SIM-16).....	779.50	32.45
28 46 13 31-0599 Remote LCD Displays (28 46 13 31-0560)		
28 46 13 31-0600 EA Remote LED/LCD System Status Display (Siemens SSD).....	1,806.48	97.34
Note: No control or menu capability.		
28 46 13 31-0601 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	2,037.42	97.34
28 46 13 31-0602 Voice Equipment (28 46 13 31-0560)		
28 46 13 31-0603 EA 40 Watts Zone Amplifier Card (Siemens ZAC-40).....	1,796.39	32.45
28 46 13 31-0604 EA 180 Watts Zone Amplifier Module (Siemens ZAM-180).....	3,981.33	32.45
28 46 13 31-0605 EA Live Voice Module (Siemens LVM).....	1,676.69	32.45
Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
28 46 13 31-0606 MXL Series Equipment (28 46 13 31-0535)		
28 46 13 31-0607 MXL Optional Equipment (28 46 13 31-0606)		
28 46 13 31-0608 EA Two Circuit Analog Loop Driver (Siemens ALD-2I).....	1,933.84	64.89
28 46 13 31-0609 EA CXL/MXL Interface Module (Siemens CMI-300).....	4,998.22	32.45
28 46 13 31-0610 EA Four Relay Programmable Relay Module (Siemens CRM-4).....	858.09	32.45
28 46 13 31-0611 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	1,035.84	32.45
28 46 13 31-0612 EA Remote Conventional Zone Module (Siemens CZM-1B6).....	390.15	32.45
28 46 13 31-0613 EA Short Circuit Line Isolator Module (Siemens Model LIM-1).....	241.43	32.45
28 46 13 31-0614 EA Four Circuit Conventional Zone Module (Siemens CZM-4).....	1,008.03	32.45
28 46 13 31-0615 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD).....	363.35	48.67
28 46 13 31-0616 EA Lexan Window For RCC (Siemens GENBOX-WD).....	246.59	25.96
28 46 13 31-0617 EA Input Driver Module (Siemens MID-16).....	661.00	32.45
28 46 13 31-0618 EA Programmable Output Driver Module (Siemens MOD-16).....	661.00	32.45
28 46 13 31-0619 EA MXL Output/Input Module (Siemens MOI-7).....	1,057.60	32.45
28 46 13 31-0620 EA Two Slot Network Option Module Card Cage (Siemens MOM-2).....	563.06	32.45
28 46 13 31-0621 EA Four Slot Network Option Module Card Cage (Siemens MOM-4).....	885.90	32.45
28 46 13 31-0622 EA 12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220).....	2,178.90	97.34
28 46 13 31-0623 EA 12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240).....	2,178.90	97.34
28 46 13 31-0624 EA Network Interface Module (Siemens NIM-1W).....	1,577.54	32.45
28 46 13 31-0625 EA U.L. Listed Parallel Printer (Siemens PAL-1).....	4,128.86	129.79
28 46 13 31-0626 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324).....	462.70	32.45
28 46 13 31-0627 EA Surface Mounted Remote Command Center (Siemens RCC-1).....	4,520.29	648.95

**Electronic Safety and Security 28****Life Safety 28 40****Fire Detection and Alarm 28 46****28**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0628	EA	Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL).....	556.62	64.89
28 46 13 31-0629	EA	Flush Mounted Remote Command Center (Siemens RCC-1F).....	4,520.29	648.95
28 46 13 31-0630	EA	Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL).....	571.13	64.89
28 46 13 31-0631	EA	Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	3,474.38	648.95
28 46 13 31-0632	EA	MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	5,202.26	648.95
28 46 13 31-0633	EA	RCC-2/RSE-1 Trim Ring (Siemens RCF-1).....	86.86	16.22
28 46 13 31-0634	EA	Remote Diagnostics Module For MXL (Siemens RDM-MXL).....	6,417.37	64.89
28 46 13 31-0635	EA	Remote Diagnostics Module For PC (Siemens RDM-PC).....	13,668.64	64.89
28 46 13 31-0636	EA	Releasing End Of Line Module (Siemens REL-EOL).....	196.69	32.45
28 46 13 31-0637	EA	36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC).....	4,092.17	64.89
28 46 13 31-0638	EA	36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	3,907.17	64.89
28 46 13 31-0639	EA	8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1).....	2,074.51	129.79
28 46 13 31-0640 Complete MXL And MXLV System Packages Without Enclosure (28 46 13 31-0606)				
28 46 13 31-0641	EA	MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-2I And One PIM-1 (Siemens MXL-SS-EP)..... Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-2I is a two circuit analog loop driver. PIM-1 is a peripheral interface module.	14,987.18	648.95
28 46 13 31-0642	EA	MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP)..... Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.	19,519.07	648.95
28 46 13 31-0643	EA	MXLV Demonstration Panel (Siemens MXLV DEMO).....	40,684.03	648.95
28 46 13 31-0644 MXL Basic System (28 46 13 31-0606)				
28 46 13 31-0645	EA	MXL/MXLV Main Control Board (Siemens MMB-3).....	9,284.83	648.95
28 46 13 31-0646	EA	MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL)..... Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.	11,992.11	648.95
28 46 13 31-0647	EA	MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2).....	3,451.33	64.89
28 46 13 31-0648	EA	MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5).....	4,324.33	64.89
28 46 13 31-0649	EA	6 Amperes Power Supply For MXL (Siemens MPS-6).....	1,500.56	97.34
28 46 13 31-0650	EA	220/240 Volt AC Adapter Cable (Siemens CIA-12).....	111.04	16.22
28 46 13 31-0651 MXL/MXLR System Expansion Accessories (28 46 13 31-0606)				
28 46 13 31-0652	EA	MXL Remote Power Supply Module (Siemens PSR-1).....	1,842.75	97.34
28 46 13 31-0653	EA	Style 4 Communication Module (Siemens NET-4).....	378.06	32.45
28 46 13 31-0654	EA	Style 7 Communication Module (Siemens NET-7).....	688.81	32.45
28 46 13 31-0655	EA	MXL/MXLV-MXLR Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	413.13	32.45
28 46 13 31-0656 Peripheral Devices (28 46 13 31-0535)				
28 46 13 31-0657 Thermal Detectors (28 46 13 31-0656)				
28 46 13 31-0658	EA	Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	156.59	48.67
28 46 13 31-0659	EA	Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	156.59	48.67
28 46 13 31-0660	EA	135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	156.59	48.67
28 46 13 31-0661	EA	200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	156.59	48.67
28 46 13 31-0662	EA	Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	247.27	48.67
28 46 13 31-0663	EA	Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	247.27	48.67
28 46 13 31-0664	EA	Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	613.65	48.67
28 46 13 31-0665 Beam Smoke Detector (28 46 13 31-0656)				
28 46 13 31-0666	EA	Linear Beam Smoke Detector (Siemens PBA-1191).....	2,909.87	48.67
28 46 13 31-0667	EA	Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	332.32	16.22
28 46 13 31-0668	EA	20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192).....	335.95	16.22
28 46 13 31-0669	EA	10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193).....	171.50	16.22
28 46 13 31-0670 Bases For Detectors (28 46 13 31-0656)				
28 46 13 31-0671	EA	Detector Base (Siemens DB-11).....	50.59	16.22
28 46 13 31-0672	EA	Universal Base (Siemens DB-3S).....	46.96	16.22
28 46 13 31-0673 Manual Stations (28 46 13 31-0656)				
28 46 13 31-0674	EA	Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP).....	366.86	38.94
28 46 13 31-0675 Addressable Devices (28 46 13 31-0535)				
28 46 13 31-0676 Intelligent Detectors And Devices For Firefinder XLS And FS-250 (28 46 13 31-0675)				

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0677 EA Addressable Fireprint Fire Detector (Siemens HFP-11).....	305.31	48.67
28 46 13 31-0678 EA Addressable Thermal Fire Detector (Siemens HFPT-11).....	262.99	48.67
28 46 13 31-0679 EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR).....	213.42	48.67
28 46 13 31-0680 EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC).....	142.08	48.67
28 46 13 31-0681 EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW).....	142.08	48.67
28 46 13 31-0682 EA Addressable Single Action Manual Pull Station (Siemens HMS-S).....	320.02	32.45
28 46 13 31-0683 EA Addressable Double Action Manual Pull Station (Siemens HMS-D).....	305.51	32.45
28 46 13 31-0684 EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S).....	241.43	32.45
28 46 13 31-0685 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D).....	295.84	32.45
28 46 13 31-0686 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R).....	295.84	32.45
28 46 13 31-0687 EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M).....	223.29	32.45
28 46 13 31-0688 EA Line Isolator Module (Siemens HLIM).....	230.54	32.45
28 46 13 31-0689 EA Remote Convention Zone Module (Siemens HZM).....	341.79	32.45
28 46 13 31-0690 EA Intelligent Control Point Module (Siemens HCP).....	433.68	32.45
28 46 13 31-0691 EA Handheld Programming And Testing Unit (Siemens DPU).....	1,918.72	
28 46 13 31-0692 EA DPU Carrying Case (Siemens DPU-C1).....	295.16	
28 46 13 31-0693 EA Label Printer And Carrying Case (Siemens DPU-PRT).....	3,286.07	32.45
28 46 13 31-0694 Air Duct Housings And Detectors (28 46 13 31-0675)		
28 46 13 31-0695 EA Air-Duct Housing (Siemens AD2-P).....	350.58	25.96
28 46 13 31-0696 EA Air-Duct Housing With Relay (Siemens AD2-XHR).....	396.53	25.96
28 46 13 31-0697 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000).....	317.60	32.45
28 46 13 31-0698 EA 6" To 1' Duct Sampling Tube (Siemens ST-10).....	43.65	9.73
28 46 13 31-0699 EA >1' To 3' Duct Sampling Tube (Siemens ST-25).....	53.77	12.98
28 46 13 31-0700 EA >3' To 5' Duct Sampling Tube (Siemens ST-50).....	67.52	16.22
28 46 13 31-0701 EA >5' To 10' Duct Sampling Tube (Siemens ST-100).....	78.84	19.47
28 46 13 31-0702 Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 13 31-0675)		
28 46 13 31-0703 EA Addressable Fireprint Fire Detector (Siemens FP-11).....	318.61	48.67
28 46 13 31-0704 EA Addressable Thermal Fire Detector (Siemens FPT-11).....	273.88	48.67
28 46 13 31-0705 EA Intelligent Ionization Smoke Detector (Siemens ILI-1).....	352.47	48.67
28 46 13 31-0706 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B).....	311.56	32.45
28 46 13 31-0707 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B).....	344.20	32.45
28 46 13 31-0708 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S).....	315.18	32.45
28 46 13 31-0709 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D).....	349.04	32.45
28 46 13 31-0710 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R).....	349.04	32.45
28 46 13 31-0711 Detector Universal Bases (28 46 13 31-0675)		
28 46 13 31-0712 EA Detector Base With Relay (Siemens DB-X11RS).....	147.32	16.22
28 46 13 31-0713 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT).....	74.77	16.22
28 46 13 31-0714 EA Locking Kit (Siemens LK-11).....	13.95	
28 46 13 31-0715 EA Detector Base With Relay (Siemens DB-X3RS).....	147.32	16.22
28 46 13 31-0716 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11).....	171.50	16.22
28 46 13 31-0717 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX).....	71.14	16.22
28 46 13 31-0718 EA Flush Trim Ring For Bases (Siemens RA-ADB).....	33.98	9.73
28 46 13 31-0719 EA Seal For DB-11 (Siemens DB11-SEAL).....	16.86	
28 46 13 31-0720 EA Gasket For DB-11 (Siemens DB-SEAL).....	18.45	
28 46 13 31-0721 EA Detector Guard Housing (Siemens DGH-11).....	216.24	16.22
28 46 13 31-0722 EA Small Detector Base (Siemens DB-11E).....	55.42	16.22
28 46 13 31-0723 EA Audible Base For Series 3 (Siemens ADBI-60A).....	193.27	16.22
28 46 13 31-0724 EA Base Plug (Siemens DB-11-DP).....	13.90	
28 46 13 31-0725 Air Duct Smoke Detectors (28 46 13 31-0675)		
28 46 13 31-0726 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR).....	162.83	32.45
28 46 13 31-0727 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3).....	847.21	32.45
28 46 13 31-0728 Notification Devices (28 46 13 31-0535)		
28 46 13 31-0729 Synchronization Control Devices (28 46 13 31-0728)		
28 46 13 31-0730 EA Dual Synchronization Control Module (Siemens DSC).....	241.43	32.45
28 46 13 31-0731 Stand-Alone Strobes (28 46 13 31-0728)		
28 46 13 31-0732 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R).....	200.12	48.67
28 46 13 31-0733 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R).....	218.26	48.67
28 46 13 31-0734 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR).....	200.12	48.67
28 46 13 31-0735 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR).....	218.26	48.67
28 46 13 31-0736 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW).....	218.26	48.67
28 46 13 31-0737 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW).....	200.12	48.67
28 46 13 31-0738 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R).....	231.56	48.67
28 46 13 31-0739 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP).....	221.88	48.67
28 46 13 31-0740 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP).....	221.88	48.67
28 46 13 31-0741 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP).....	237.60	48.67
28 46 13 31-0742 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP).....	237.60	48.67



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0743			Horns And Strobes (28 46 13 31-0728)		
28 46 13 31-0744	EA		Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R).....	271.46	48.67
28 46 13 31-0745	EA		Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R).....	287.18	48.67
28 46 13 31-0746	EA		Wall Mounted Horn (Siemens SE-R).....	156.59	48.67
28 46 13 31-0747	EA		Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR).....	271.46	48.67
28 46 13 31-0748	EA		Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR).....	287.18	48.67
28 46 13 31-0749	EA		Ceiling Mounted Horn (Siemens SEC-R).....	163.84	48.67
28 46 13 31-0750	EA		Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R).....	271.46	48.67
28 46 13 31-0751	EA		Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R).....	287.18	48.67
28 46 13 31-0752	EA		Wall Mounted Low Profile Horn (Siemens SEF-R).....	156.59	48.67
28 46 13 31-0753	EA		Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW).....	271.46	48.67
28 46 13 31-0754	EA		Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW).....	287.18	48.67
28 46 13 31-0755	EA		Ceiling Mounted Low Profile Horn (Siemens SEF-CR).....	163.84	48.67
28 46 13 31-0756	EA		Mini Horn (Siemens MH-R).....	129.99	48.67
28 46 13 31-0757	EA		Indoor/Outdoor Multi Tone Horn (Siemens MTH-R).....	166.26	48.67
28 46 13 31-0758	EA		Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R).....	255.74	48.67
28 46 13 31-0759	EA		Industrial Tri-Tone Horn (Siemens ASR).....	732.14	48.67
28 46 13 31-0760	EA		Wall Mounted Horn (Siemens HS-R).....	166.26	48.67
28 46 13 31-0761	EA		Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R).....	256.95	48.67
28 46 13 31-0762	EA		Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R).....	276.29	48.67
28 46 13 31-0763	EA		6" Motor Bell (Siemens MBDC-6).....	190.44	48.67
28 46 13 31-0764	EA		10" Motor Bell (Siemens MBDC-10).....	208.58	48.67
28 46 13 31-0765			Mounting Accessories (28 46 13 31-0728)		
28 46 13 31-0766	EA		Concealed Conduit Adapter Plate (Siemens APS-R).....	46.96	16.22
28 46 13 31-0767	EA		4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R).....	46.96	16.22
28 46 13 31-0768	EA		4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	48.17	16.22
28 46 13 31-0769	EA		Red Weatherproof Surface Mount Back Box (Siemens MT-SUR-BOX).....	77.19	16.22
28 46 13 31-0770	EA		White Weatherproof Surface Mount Back Box (Siemens MT-SUR-BOX-W).....	61.47	16.22
28 46 13 31-0771	EA		Surface Mounted Speaker Back Box (Siemens SBBS-R).....	65.10	16.22
28 46 13 31-0772	EA		Surface Mounted Speaker Back Box (Siemens SBL2S-R).....	69.93	16.22
28 46 13 31-0773	EA		Square Semi-Flush Extension Ring (Siemens SERS-R).....	55.42	16.22
28 46 13 31-0774	EA		Semi-Flush Plate (Siemens SFPS-R).....	45.75	16.22
28 46 13 31-0775	EA		Square Surface Back Box (Siemens SHBBS-R).....	55.42	16.22
28 46 13 31-0776	EA		Horn Adapter Plate (Siemens SHMPS-R).....	53.01	16.22
28 46 13 31-0777	EA		Ceiling Speaker Extension Ring (Siemens SPEXT-R).....	46.96	16.22
28 46 13 31-0778	EA		Wall Mounted Surface Mounted Speaker Back Box (Siemens SPSB-R).....	61.47	16.22
28 46 13 31-0779	EA		Wall Mounted Surface Mounted Speaker/Strobe Back Box (Siemens SPSSB-R).....	65.10	16.22
28 46 13 31-0780	EA		Weatherproof Speaker Back Box (Siemens WBBS-R).....	62.68	16.22
28 46 13 31-0781	EA		Weatherproof Speaker Back Box With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	69.93	16.22
28 46 13 31-0782	EA		Weatherproof Flush Plate (Siemens WFPAS-R).....	69.93	16.22
28 46 13 31-0783	EA		Weatherproof Horn Flush Plate (Siemens WFPS-R).....	69.93	16.22
28 46 13 31-0784	EA		Weatherproof Horn Back Box (Siemens WPBBS-R).....	65.10	16.22
28 46 13 31-0785	EA		Weatherproof Strobe Back Box (Siemens WPSBBS-R).....	65.10	16.22
28 46 13 31-0786	EA		Surface Mounted Weatherproof Back Box Kit (Siemens WPS-KIT).....	46.96	16.22
28 46 13 31-0787	EA		Z Series Back Box (Siemens ZBB-R).....	53.01	16.22
28 46 13 31-0788			Door Holders (28 46 13 31-0728)		
28 46 13 31-0789	EA		120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A).....	409.30	48.67
28 46 13 31-0790	EA		24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D).....	409.30	48.67
28 46 13 31-0791			Voice Equipment (28 46 13 31-0535)		
28 46 13 31-0792			Voicecom (28 46 13 31-0791)		
28 46 13 31-0793	EA		Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM).....	6,273.56	648.95
28 46 13 31-0794	EA		Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L).....	9,961.47	648.95
28 46 13 31-0795			Johnson Controls Fire Alarm (28 46 13 31)		
28 46 13 31-0796	EA		Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J).....	238.28	48.67
28 46 13 31-0797	EA		Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J).....	235.66	48.67
28 46 13 31-0798	EA		Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ).....	295.70	48.67
28 46 13 31-0799	EA		Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ).....	294.86	48.67
28 46 13 31-0800	EA		411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD).....	818.97	64.89
28 46 13 31-0801	EA		Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ).....	224.90	48.67
28 46 13 31-0802	EA		Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J).....	200.06	48.67
28 46 13 31-0803	EA		Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ).....	194.79	48.67
28 46 13 31-0804	EA		Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J).....	599.67	48.67
28 46 13 31-0805	EA		100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100).....	2,933.34	97.34
28 46 13 31-0806	EA		AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E).....	2,841.76	97.34

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0807 EA 120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120)	2,891.17	97.34
28 46 13 31-0808 EA AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E)	2,767.81	97.34
28 46 13 31-0809 EA 30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30)	1,342.63	97.34
28 46 13 31-0810 EA AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E)	1,342.63	97.34
28 46 13 31-0811 EA Annunciator Control Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT)	1,351.47	32.45
28 46 13 31-0812 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT)	1,405.84	32.45
28 46 13 31-0813 EA Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A)	1,031.67	32.45
28 46 13 31-0814 EA IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A)	1,031.67	32.45
28 46 13 31-0815 EA Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R)	726.68	32.45
28 46 13 31-0816 EA Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610)	2,348.00	64.89
28 46 13 31-0817 EA Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT)	1,031.67	32.45
28 46 13 31-0818 EA Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT)	1,072.54	32.45
28 46 13 31-0819 EA Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A)	924.43	32.45
28 46 13 31-0820 EA Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A)	924.43	32.45
28 46 13 31-0821 EA Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #AFAWS-BX)	152.67	29.20
28 46 13 31-0822 EA Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM)	1,412.68	64.89
28 46 13 31-0823 EA Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS)	3,087.41	64.89
28 46 13 31-0824 EA Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM)	1,412.68	64.89
28 46 13 31-0825 EA Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS)	3,087.41	64.89
28 46 13 31-0826 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP)	54.63	16.22
28 46 13 31-0827 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI)	150.04	16.22
28 46 13 31-0828 EA Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB)	141.41	16.22
28 46 13 31-0829 EA Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401)	58.31	16.22
28 46 13 31-0830 EA Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J)	52.19	16.22
28 46 13 31-0831 EA Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100)	1,028.26	64.89
28 46 13 31-0832 EA Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224)	2,412.89	97.34
28 46 13 31-0833 EA Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S)	2,551.54	97.34
28 46 13 31-0834 EA Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK)	282.00	16.22
28 46 13 31-0835 EA Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK)	189.59	16.22
28 46 13 31-0836 EA Digital Audio Amplifier, 50 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-5025)	2,414.93	97.34
28 46 13 31-0837 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F)	2,228.04	97.34
28 46 13 31-0838 EA Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF)	2,228.04	97.34
28 46 13 31-0839 EA Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070)	2,616.82	97.34
28 46 13 31-0840 EA Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E)	2,412.89	97.34
28 46 13 31-0841 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F)	2,412.89	97.34
28 46 13 31-0842 EA Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF)	2,412.89	97.34
28 46 13 31-0843 EA Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525)	2,888.22	97.34
28 46 13 31-0844 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F)	2,888.22	97.34
28 46 13 31-0845 EA Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF)	2,888.22	97.34
28 46 13 31-0846 EA Innovairflex Intelligent. (Johnson Controls, Inc. #DNR)	297.93	32.45
28 46 13 31-0847 EA Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW)	459.56	32.45
28 46 13 31-0848 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1)	40.69	12.98
28 46 13 31-0849 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5)	44.49	12.98
28 46 13 31-0850 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10)	110.04	19.47
28 46 13 31-0851 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3)	53.01	12.98
28 46 13 31-0852 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5)	65.44	16.22
28 46 13 31-0853 EA Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO)	462.30	32.45
28 46 13 31-0854 EA Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD)	767.55	64.89
28 46 13 31-0855 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4)	633.08	97.34
28 46 13 31-0856 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4)	882.01	97.34
28 46 13 31-0857 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPs-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4)	965.19	97.34
28 46 13 31-0858 EA Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4)	514.51	12.98
28 46 13 31-0859 EA Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4)	776.43	12.98
28 46 13 31-0860 EA Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4)	853.47	12.98
28 46 13 31-0861 EA 6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6)	1,019.49	129.79
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-0862 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8)	1,342.18	129.79
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-0863 EA 80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FPU-80G)	1,276.08	97.34
28 46 13 31-0864 EA Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS)	235.79	16.22
28 46 13 31-0865 EA Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R)	669.36	32.45

**Electronic Safety and Security****28****Life Safety****28 40****Fire Detection and Alarm****28 46****28**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0866	EA	Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	350.42	48.67	
28 46 13 31-0867	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	284.86	48.67	
28 46 13 31-0868	EA	Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	299.78	48.67	
28 46 13 31-0869	EA	Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	2,462.02	64.89	
28 46 13 31-0870	EA	Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	3,009.09	64.89	
28 46 13 31-0871	EA	Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	907.68	32.45	
28 46 13 31-0872	EA	IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320).....	6,144.48	519.16	
		Note: Includes Door, Dress Panel And Back Box, Black			
28 46 13 31-0873	EA	Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	3,035.65	64.89	
28 46 13 31-0874	EA	Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI).....	40,085.25	778.74	
28 46 13 31-0875	EA	Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F).....	43,782.27	778.74	
28 46 13 31-0876	EA	Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	49,327.81	778.74	
28 46 13 31-0877	EA	Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	43,782.27	778.74	
28 46 13 31-0878	EA	Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B).....	294.04	19.47	
28 46 13 31-0879	EA	Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	331.01	19.47	
28 46 13 31-0880	EA	Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	360.59	19.47	
28 46 13 31-0881	EA	Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	674.84	19.47	
28 46 13 31-0882	EA	Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB).....	218.19	12.98	
28 46 13 31-0883	EA	Surface (or Semi-flush) Mount Back Box (Johnson Controls, Inc. #JABS-2D).....	339.99	29.20	
		Note: Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black.			
28 46 13 31-0884	EA	Surface (or Semi-flush) Mount Back Box (Johnson Controls, Inc. #JABS-2DR).....	361.19	29.20	
		Note: Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red.			
28 46 13 31-0885	EA	Surface (or Semi-flush) Mount INA, ACS, Or SCS Back Box, Black. (Johnson Controls, Inc. #JABS-4D).....	664.70	29.20	
28 46 13 31-0886	EA	Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	663.72	12.98	
28 46 13 31-0887	EA	Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	894.78	12.98	
28 46 13 31-0888	EA	Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	1,107.36	12.98	
28 46 13 31-0889	EA	Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX).....	310.13	32.45	
28 46 13 31-0890	EA	Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP-2-4).....	144.84	12.98	
28 46 13 31-0891	EA	JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D).....	6,130.49	519.16	
28 46 13 31-0892	EA	Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	4,425.12	389.38	
		Note: Includes CHS2-M2 Chassis			
28 46 13 31-0893	EA	Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	7,965.70	519.16	
28 46 13 31-0894	EA	Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	7,655.35	389.38	
28 46 13 31-0895	EA	Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	5,511.46	389.38	
28 46 13 31-0896	EA	Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	3,024.11	48.67	
28 46 13 31-0897	EA	Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	3,054.96	48.67	
28 46 13 31-0898	EA	Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	3,054.96	48.67	
28 46 13 31-0899	EA	Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	3,615.19	64.89	
28 46 13 31-0900	EA	Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. (Johnson Controls, Inc. #JNCA-2).....	3,063.38	64.89	
		Note: Mounting Includes: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D).			
28 46 13 31-0901	EA	Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	2,627.26	389.38	
28 46 13 31-0902	EA	160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD- 160).....	2,175.39	64.89	
28 46 13 31-0903	EA	80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,788.98	64.89	
28 46 13 31-0904	EA	Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC- 3030 Only. (Johnson Controls, Inc. #LCM-320).....	2,881.09	64.89	
28 46 13 31-0905	EA	Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	891.99	16.22	
28 46 13 31-0906	EA	Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	286.58	12.98	
28 46 13 31-0907	EA	Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	353.13	12.98	
28 46 13 31-0908	EA	Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	718.27	16.22	
28 46 13 31-0909	EA	Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	1,319.03	16.22	
28 46 13 31-0910	EA	Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	2,390.73	16.22	
28 46 13 31-0911	EA	Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	186.59	16.22	
28 46 13 31-0912	EA	Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	297.87	16.22	
28 46 13 31-0913	EA	Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry- contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	146.28	16.22	
28 46 13 31-0914	EA	Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	205.64	16.22	
28 46 13 31-0915	EA	Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devices. (Johnson Controls, Inc. #M301MJ).....	161.87	16.22	

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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 13 31-0916	EA	Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	264.54	16.22
28 46 13 31-0917	EA	Addressable Firephone Control Module With Flashscan. (Johnson Controls, Inc. #M500FPJ).....	301.81	16.22
28 46 13 31-0918	EA	SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	169.80	16.22
28 46 13 31-0919	EA	Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	2,522.59	48.67
28 46 13 31-0920	EA	Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	2,244.27	32.45
28 46 13 31-0921	EA	Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232W).....	2,074.21	32.45
28 46 13 31-0922	EA	Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	77.68	6.49
28 46 13 31-0923	EA	Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-F).....	1,814.34	32.45
28 46 13 31-0924	EA	Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc). (Johnson Controls, Inc. #NCM-W).....	1,727.58	32.45
28 46 13 31-0925	EA	NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	4,411.59	64.89
28 46 13 31-0926	EA	NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	1,224.67	32.45
28 46 13 31-0927	EA	Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	334.64	12.98
28 46 13 31-0928	EA	Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	772.89	32.45
28 46 13 31-0929	EA	Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	772.89	32.45
28 46 13 31-0930	EA	Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	207.13	12.98
28 46 13 31-0931	EA	SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	54.78	6.49
28 46 13 31-0932	EA	SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	54.78	6.49
28 46 13 31-0933	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR).....	208.27	48.67
28 46 13 31-0934	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH).....	234.13	48.67
28 46 13 31-0935	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	276.69	55.16
28 46 13 31-0936	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	272.98	55.16
28 46 13 31-0937	EA	Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,847.46	129.79
28 46 13 31-0938	EA	Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	1,440.77	129.79
28 46 13 31-0939	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW).....	208.27	48.67
28 46 13 31-0940	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH).....	234.13	48.67
28 46 13 31-0941	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P).....	208.27	48.67
28 46 13 31-0942	EA	Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500).....	37.70	12.98
28 46 13 31-0943	EA	SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON).....	42.65	6.49
28 46 13 31-0944	EA	SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP).....	48.59	6.49
28 46 13 31-0945	EA	SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS).....	42.70	6.49
28 46 13 31-0946	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR).....	190.43	48.67
28 46 13 31-0947	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH).....	234.13	48.67
28 46 13 31-0948	EA	Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK).....	276.69	55.16
28 46 13 31-0949	EA	Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P).....	234.13	48.67
28 46 13 31-0950	EA	Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	272.98	55.16
28 46 13 31-0951	EA	Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P).....	208.27	48.67
28 46 13 31-0952	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW).....	208.27	48.67
28 46 13 31-0953	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH).....	234.13	48.67
28 46 13 31-0954	EA	Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P).....	234.13	48.67
28 46 13 31-0955	EA	Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P).....	208.27	48.67
28 46 13 31-0956	EA	Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1).....	289.38	16.22
28 46 13 31-0957	EA	Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	1,277.23	64.89
28 46 13 31-0958	EA	Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	308.92	64.89
28 46 13 31-0959	EA	Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	131.98	32.45
28 46 13 31-0960	EA	Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWW).....	131.98	32.45
28 46 13 31-0961	EA	Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	244.02	32.45
28 46 13 31-0962	EA	Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	265.45	32.45
28 46 13 31-0963	EA	Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRHV).....	265.45	32.45
28 46 13 31-0964	EA	Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	235.50	32.45
28 46 13 31-0965	EA	Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	321.31	32.45
28 46 13 31-0966	EA	Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	244.02	32.45
28 46 13 31-0967	EA	Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	131.98	32.45
28 46 13 31-0968	EA	Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	131.98	32.45
28 46 13 31-0969	EA	Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	265.45	32.45
28 46 13 31-0970	EA	Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	244.02	32.45
28 46 13 31-0971	EA	Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	244.02	32.45

28 46 13 31-0972 Honeywell Fire Alarm (28 46 13 31)**28 46 13 31-0973 Notifier Fire Alarm** (28 46 13 31-0972)**28 46 13 31-0974 Fire Alarm Control Panel And Accessories** (28 46 13 31-0973)

28 46 13 31-0975	EA	NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D).....	6,715.29	648.95
28 46 13 31-0976	EA	NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640).....	5,521.12	648.95
28 46 13 31-0977	EA	Central Processing Unit for NFS2-640 With Integral 240 Volt Power Supply Includes Chassis (Notifier CPU2-640E).....	4,806.32	648.95
28 46 13 31-0978	EA	Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320).....	6,701.24	648.95
28 46 13 31-0979	EA	Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C).....	6,119.79	648.95
28 46 13 31-0980	EA	Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E).....	5,967.62	648.95
28 46 13 31-0981	EA	Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R).....	5,822.31	648.95
28 46 13 31-0982	EA	Two-Tone Sequential Module (Notifier 2TTM).....	384.11	32.45
28 46 13 31-0983	EA	5', Not Low Loss, Antenna Cable (Notifier 7626-5C).....	96.50	6.49
28 46 13 31-0984	EA	25', Low Loss, Antenna Cable (Notifier 7626-25HC).....	185.00	12.98
28 46 13 31-0985	EA	50', Low Loss, Antenna Cable (Notifier 7626-50HC).....	280.93	19.47
28 46 13 31-0986	EA	IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P).....	443.93	
28 46 13 31-0987	EA	RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119).....	62.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0988	EA		120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	5,707.90	648.95
28 46 13 31-0989	EA		240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYSE).....	5,763.96	648.95
28 46 13 31-0990	EA		3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB).....	238.38	6.49
28 46 13 31-0991	EA		Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER).....	73.62	6.49
28 46 13 31-0992	EA		Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT).....	104.62	12.98
28 46 13 31-0993	EA		Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT).....	103.39	16.22
28 46 13 31-0994	EA		IP Communicator (Notifier IPDACT-2).....	774.26	32.45
28 46 13 31-0995	EA		IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD).....	897.83	32.45
28 46 13 31-0996	EA		Red, IP Communicator External Mounting Enclosure (Notifier IPENC).....	211.34	32.45
			Note: Includes IPBRKT.		
28 46 13 31-0997	EA		Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B).....	210.77	32.45
			Note: Includes IPBRKT		
28 46 13 31-0998	EA		Dual 8TPC To Single 8TPC Y-Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT).....	54.22	12.98
28 46 13 31-0999	EA		Loop Control Module (Notifier LCM-320).....	2,485.34	64.89
28 46 13 31-1000	EA		Loop Expander Module (Notifier LEM-320).....	1,775.08	64.89
28 46 13 31-1001	EA		Keyboard Display Module For CPU2-640 (Notifier KDM-R2).....	1,884.35	64.89
28 46 13 31-1002	EA		7" DACT Phone Cord (Notifier MCBL-7).....	26.37	
28 46 13 31-1003	EA		Back Box For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1).....	222.95	16.22
28 46 13 31-1004	EA		Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R).....	255.39	32.45
28 46 13 31-1005	EA		Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B).....	255.39	32.45
28 46 13 31-1006	EA		Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2).....	813.00	32.45
28 46 13 31-1007	EA		Universal Zone Coder (Notifier UZC-256).....	1,129.99	32.45
28 46 13 31-1008	EA		Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI).....	352.16	
			Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 13 31-1009	EA		Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD).....	876.14	
28 46 13 31-1010	EA		ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD).....	567.86	
28 46 13 31-1011	EA		Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS).....	4,994.63	19.47
28 46 13 31-1012	EA		Surface Back Box For NBG-12LRA (Notifier SBA-10).....	57.74	16.22
28 46 13 31-1013	EA		Up To 50 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-50X).....	2,495.09	648.95
28 46 13 31-1014	EA		Up To 198 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-100X).....	3,658.63	648.95
28 46 13 31-1015 ONYX Cabinets (28 46 13 31-0973)					
28 46 13 31-1016	EA		Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R).....	654.09	16.22
28 46 13 31-1017	EA		Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R).....	877.68	16.22
28 46 13 31-1018	EA		Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R).....	1,084.32	16.22
28 46 13 31-1019	EA		Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4).....	133.90	19.47
28 46 13 31-1020	EA		Chassis Bridge (Notifier CB-1).....	121.41	16.22
28 46 13 31-1021	EA		Four Position Chassis (Notifier CHS-4).....	202.36	16.22
28 46 13 31-1022	EA		Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2).....	249.09	32.45
28 46 13 31-1023	EA		Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B).....	118.46	19.47
28 46 13 31-1024	EA		Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP).....	149.64	19.47
28 46 13 31-1025	EA		One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4).....	464.51	32.45
28 46 13 31-1026	EA		One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B).....	294.36	32.45
28 46 13 31-1027	EA		Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4).....	587.49	48.67
28 46 13 31-1028	EA		Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B).....	361.15	48.67
28 46 13 31-1029	EA		Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4).....	877.51	64.89
28 46 13 31-1030	EA		Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B).....	532.53	64.89
28 46 13 31-1031	EA		Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4).....	1,064.50	81.12
28 46 13 31-1032	EA		Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B).....	618.05	81.12
28 46 13 31-1033	EA		Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4).....	318.49	16.22
28 46 13 31-1034	EA		Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B).....	220.09	16.22
28 46 13 31-1035	EA		Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR).....	220.09	16.22
28 46 13 31-1036	EA		Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R).....	324.21	16.22
28 46 13 31-1037	EA		Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR).....	247.55	16.22
28 46 13 31-1038	EA		Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R).....	410.02	16.22
28 46 13 31-1039	EA		Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR).....	281.30	16.22
28 46 13 31-1040	EA		Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R).....	487.82	16.22
28 46 13 31-1041	EA		Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR).....	403.15	16.22
28 46 13 31-1042	EA		Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R).....	722.37	16.22
28 46 13 31-1043	EA		Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR).....	451.21	16.22
28 46 13 31-1044	EA		Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R).....	864.25	16.22
28 46 13 31-1045	EA		Black, Two Tiers, Equipment Back Box Assembly (Notifier EQBB-B4).....	420.72	32.45
28 46 13 31-1046	EA		Black, Three Tiers, Equipment Back Box Assembly (Notifier EQBB-C4).....	617.51	32.45
28 46 13 31-1047	EA		Black, Four Tiers, Equipment Back Box Assembly (Notifier EQBB-D4).....	722.78	32.45
28 46 13 31-1048	EA		Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4).....	440.17	32.45
28 46 13 31-1049	EA		Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4).....	660.99	32.45
28 46 13 31-1050	EA		Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4).....	770.83	32.45
28 46 13 31-1051	EA		Red, Two Tiers, Equipment Back Box Assembly (Notifier EQBB-B4R).....	424.15	32.45
28 46 13 31-1052	EA		Red, Three Tiers, Equipment Back Box Assembly (Notifier EQBB-C4R).....	617.51	32.45
28 46 13 31-1053	EA		Red, Four Tiers, Equipment Back Box Assembly (Notifier EQBB-D4R).....	731.93	32.45
28 46 13 31-1054	EA		Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R).....	460.77	32.45
28 46 13 31-1055	EA		Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R).....	660.99	32.45
28 46 13 31-1056	EA		Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R).....	770.83	32.45
28 46 13 31-1057	EA		Back Box With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC).....	3,449.07	162.24
28 46 13 31-1058	EA		CAB-4 Series Mounting Kit (Notifier P40-KITB).....	395.55	32.45
			Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 13 31-1059	EA		Black, One Tier Back Box Assembly (Notifier SBB-A4).....	497.96	97.34
28 46 13 31-1060	EA		Black, Two Tier Back Box Assembly (Notifier SBB-B4).....	707.36	129.79

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1061	EA	Black, Three Tier Back Box Assembly (Notifier SBB-C4)	948.20	129.79
28 46 13 31-1062	EA	Black, Four Tier Back Box Assembly (Notifier SBB-D4)	1,152.25	162.24
28 46 13 31-1063	EA	Black, Mini, One Tier, Back Box (Notifier SBB-AA4)	251.39	32.45
28 46 13 31-1064	EA	Red, Mini, One Tier, Back Box (Notifier SBB-AA4R)	251.39	32.45
28 46 13 31-1065	EA	Red, One Tier Back Box Assembly (Notifier SBB-A4R)	304.02	32.45
28 46 13 31-1066	EA	Red, Two Tier Back Box Assembly (Notifier SBB-B4R)	419.58	32.45
28 46 13 31-1067	EA	Red, Three Tier Back Box Assembly (Notifier SBB-C4R)	610.65	32.45
28 46 13 31-1068	EA	Red, Four Tier Back Box Assembly (Notifier SBB-D4R)	720.49	32.45
28 46 13 31-1069	EA	Trim Ring For NFS-320 Cabinet (Notifier TR-320)	239.74	19.47
28 46 13 31-1070	EA	Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R)	239.74	19.47
28 46 13 31-1071	EA	Black, AA Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4)	321.55	19.47
28 46 13 31-1072	EA	Black, A Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4)	255.18	19.47
28 46 13 31-1073	EA	Black, B Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4)	256.90	19.47
28 46 13 31-1074	EA	Black, C Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4)	254.04	19.47
28 46 13 31-1075	EA	Black, D Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4)	260.33	19.47
28 46 13 31-1076	EA	2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Back Box (Notifier VP-2B)	95.46	19.47
28 46 13 31-1077	EA	Wire Trays For Routing Wire In A CAB-4 Series Back Box (Notifier WC-2)	64.70	6.49
28 46 13 31-1078 NFS2-3030/640 Cabinet Mechanicals (28 46 13 31-0973)				
28 46 13 31-1079	EA	Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640)	169.17	19.47
28 46 13 31-1080	EA	Blank Module Dress Plate (Notifier BM-1B)	138.84	19.47
28 46 13 31-1081	EA	Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4)	158.47	19.47
28 46 13 31-1082	EA	Four Position Expansion Chassis (Notifier CHS-4MB)	312.77	16.22
28 46 13 31-1083	EA	Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3)	354.24	48.67
28 46 13 31-1084	EA	Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2)	176.31	19.47
28 46 13 31-1085 NFS-3030/640 Cabinet Mechanicals (28 46 13 31-0973)				
28 46 13 31-1086	EA	Annunciator Dress Plate (Notifier ADP-4B)	160.25	19.47
28 46 13 31-1087	EA	Blank Module Dress Plate (Notifier BMP-1)	97.81	19.47
28 46 13 31-1088	EA	Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L)	224.56	32.45
28 46 13 31-1089	EA	Module Dress Plate (Notifier MP-1B)	162.04	19.47
28 46 13 31-1090 Battery Cabinets (28 46 13 31-0973)				
28 46 13 31-1091	EA	Six Position Chassis (Notifier CHS-6)	140.35	32.45
28 46 13 31-1092	EA	Black, 24" x 14" x 7-3/4" Battery Back Box (Notifier NFS-LBB)	719.18	97.34
28 46 13 31-1093 Digital Voice (28 46 13 31-0973)				
28 46 13 31-1094	EA	Chassis Used With BB-XP (Notifier 18439)	61.63	16.22
28 46 13 31-1095	EA	220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E)	2,304.68	48.67
28 46 13 31-1096	EA	220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E)	2,240.23	48.67
28 46 13 31-1097	EA	220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E)	1,131.80	48.67
28 46 13 31-1098	EA	Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4)	752.07	48.67
28 46 13 31-1099	EA	Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4)	1,020.01	64.89
28 46 13 31-1100	EA	Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4)	1,270.10	81.12
28 46 13 31-1101	EA	Multimode Audio Fiber Link Receiver (Notifier AFL-RM)	981.01	32.45
28 46 13 31-1102	EA	Multimode Audio Fiber Link Transmitter (Notifier AFL-TM)	981.01	32.45
28 46 13 31-1103	EA	Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS)	2,094.71	32.45
28 46 13 31-1104	EA	15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Back Box (Notifier AFAWS-BX)	125.98	16.22
28 46 13 31-1105	EA	Flush Mounted, Key Lock, Door (Notifier AFAWS-KR)	210.94	16.22
28 46 13 31-1106	EA	Surface Mounted, Key Lock, Door (Notifier AFAWS-KS)	212.08	16.22
28 46 13 31-1107	EA	Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR)	205.22	16.22
28 46 13 31-1108	EA	Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS)	207.51	16.22
28 46 13 31-1109	EA	Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA)	420.32	16.22
28 46 13 31-1110	EA	Coil Cord, Telephone Chassis (Notifier AFAWS-TELC)	321.92	16.22
28 46 13 31-1111	EA	Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B)	131.97	
28 46 13 31-1112	EA	For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V)	587.93	32.45
28 46 13 31-1113	EA	For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V)	593.21	32.45
28 46 13 31-1114	EA	Blank Dress Plate For CA-2 (Notifier BP-CA2)	124.27	16.22
28 46 13 31-1115	EA	One Tier Chassis For Digital Voice Command Panel (Notifier CA-1)	193.34	32.45
28 46 13 31-1116	EA	Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2)	621.84	48.67
28 46 13 31-1117	EA	Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM)	249.67	32.45
28 46 13 31-1118	EA	Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR)	249.67	32.45
28 46 13 31-1119	EA	Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1)	318.49	16.22
28 46 13 31-1120	EA	Chassis With Paging Microphone With Well (Notifier CMIC-1)	315.06	16.22
28 46 13 31-1121	EA	120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025)	2,630.28	32.45
28 46 13 31-1122	EA	Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F)	1,980.18	32.45
28 46 13 31-1123	EA	Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF)	1,980.18	32.45
28 46 13 31-1124	EA	120 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070)	2,715.91	32.45
28 46 13 31-1125	EA	Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F)	2,096.26	32.45
28 46 13 31-1126	EA	120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525)	2,821.17	32.45
28 46 13 31-1127	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF)	2,589.60	32.45
28 46 13 31-1128	EA	Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF)	2,589.60	32.45
28 46 13 31-1129	EA	220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E)	1,872.82	32.45
28 46 13 31-1130	EA	220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E)	1,925.65	32.45
28 46 13 31-1131	EA	220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E)	2,008.07	32.45
28 46 13 31-1132	EA	120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525)	1,273.70	32.45

**Electronic Safety and Security****28****Life Safety****28 40****Fire Detection and Alarm****28 46****28**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1133	EA	220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E)	1,307.51	32.45
28 46 13 31-1134	EA	120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570)	1,338.15	32.45
28 46 13 31-1135	EA	220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E)	1,382.53	32.45
28 46 13 31-1136	EA	120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025)	1,392.04	32.45
28 46 13 31-1137	EA	220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E)	1,433.25	32.45
28 46 13 31-1138	EA	120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070)	1,474.46	32.45
28 46 13 31-1139	EA	220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E)	1,548.43	32.45
28 46 13 31-1140	EA	Dress Plate For CFFT-1 (Notifier DP-CFFT)	143.72	16.22
28 46 13 31-1141	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1)	151.33	19.47
28 46 13 31-1142	EA	Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4)	176.31	19.47
28 46 13 31-1143	EA	Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B)	310.11	19.47
28 46 13 31-1144	EA	WPS Power Amplifier (Notifier DPA3204P)	696.77	32.45
28 46 13 31-1145	EA	WPS Power Amplifier (Notifier DPA4001P)	587.93	32.45
28 46 13 31-1146	EA	Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232)	1,323.36	32.45
28 46 13 31-1147	EA	120 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP)	990.52	32.45
		Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1148	EA	220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE)	1,002.14	32.45
		Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V		
28 46 13 31-1149	EA	Digital Series Distribution Board, Supports One To Four DS-AMP Or DS-AMPE (Notifier DS-DB)	1,667.83	32.45
28 46 13 31-1150	EA	125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA)	651.33	32.45
28 46 13 31-1151	EA	Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM)	371.52	32.45
28 46 13 31-1152	EA	Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXFX Series Amplifier), Fiber Option Module (Notifier DS-RFM)	371.52	32.45
28 46 13 31-1153	EA	Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM)	371.52	32.45
28 46 13 31-1154	EA	Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V)	160.14	32.45
28 46 13 31-1155	EA	Analog Output Board For Digital Voice Command (Notifier DVC-AO)	448.45	32.45
28 46 13 31-1156	EA	Extended Memory For Digital Voice Command (Notifier DVC-EM)	2,651.69	32.45
28 46 13 31-1157	EA	Keypad For Digital Voice Command (Notifier DVC-KD)	745.27	64.89
28 46 13 31-1158	EA	Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE)	293.30	
28 46 13 31-1159	EA	Portable Fireman's Telephone Handset (Notifier FHS)	176.02	
28 46 13 31-1160	EA	Red, Fireman's Telephone Handset (Notifier FHS-F)	204.05	
28 46 13 31-1161	EA	Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R)	511.11	32.45
28 46 13 31-1162	EA	Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S)	511.11	32.45
28 46 13 31-1163	EA	Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ)	83.77	9.73
28 46 13 31-1164	EA	Paging Microphone Only (Notifier MIC-1)	298.59	32.45
28 46 13 31-1165	EA	Firefighter's Telephone Handset (Notifier TELH-1)	201.19	
28 46 13 31-1166	EA	Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1)	758.87	32.45
28 46 13 31-1167	EA	Remote Microphone Assembly For Mounting In A Stand-Alone Cabinet (Notifier RM-1SA)	758.87	32.45
28 46 13 31-1168 Amplifiers (28 46 13 31-0973)				
28 46 13 31-1169	EA	30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30)	1,472.47	32.45
28 46 13 31-1170	EA	100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100)	3,229.71	32.45
28 46 13 31-1171	EA	120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120)	3,136.94	32.45
28 46 13 31-1172	EA	Audio Coupling Transformer (Notifier ACT-1)	212.96	32.45
28 46 13 31-1173	EA	Audio Coupling Transformer For DVC-AO (Notifier ACT-4)	252.21	32.45
28 46 13 31-1174	EA	Audio Coupling Transformer For DAA-5025 (Notifier ACT-25)	252.21	32.45
28 46 13 31-1175	EA	Audio Coupling Transformer For DAA-5070 (Notifier ACT-70)	252.21	32.45
28 46 13 31-1176	EA	50 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5025)	1,793.57	32.45
28 46 13 31-1177	EA	50 Watt, 70 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5070)	1,854.86	32.45
28 46 13 31-1178	EA	75 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-7525)	1,926.71	32.45
28 46 13 31-1179	EA	Distributed Amplifier With Backup Capability (Notifier NFC-50/100DA)	3,509.57	32.45
		Note: Requires NFC-BDA-BU		
28 46 13 31-1180	EA	50 Watt, 25 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25V)	704.16	32.45
		Note: Requires NFC-BDA-BU		
28 46 13 31-1181	EA	50 Watt, 70 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70V)	707.33	32.45
		Note: Requires NFC-BDA-BU		
28 46 13 31-1182 FireVoice-25/50 Emergency Voice Evacuation Control Panels (28 46 13 31-0973)				
28 46 13 31-1183	EA	25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50)	5,311.32	648.95
28 46 13 31-1184	EA	Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA)	3,735.56	648.95
28 46 13 31-1185	EA	Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS)	4,867.32	648.95
28 46 13 31-1186	EA	Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS)	6,347.32	648.95
28 46 13 31-1187	EA	Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST)	7,026.38	648.95
28 46 13 31-1188 System Printer (28 46 13 31-0973)				
28 46 13 31-1189	EA	80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6)	3,208.30	32.45
28 46 13 31-1190 Batteries (28 46 13 31-0973)				
28 46 13 31-1191	EA	5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP)	660.99	32.45
28 46 13 31-1192	EA	7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP)	675.02	32.45
28 46 13 31-1193	EA	12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP)	892.67	32.45
28 46 13 31-1194	EA	18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP)	514.46	32.45
28 46 13 31-1195	EA	26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP)	724.97	32.45
28 46 13 31-1196	EA	55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550)	723.19	32.45
28 46 13 31-1197	EA	100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000)	1,159.91	32.45

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MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

28 46 13 31-1198		Battery Back Boxes And Miscellaneous Mechanicals (28 46 13 31-0973)	
28 46 13 31-1199	EA	14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Back Box (Notifier BB-17)	182.93 25.96
28 46 13 31-1200	EA	24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25)	305.92 25.96
Note: XP6 modules require a CHS-6.			
28 46 13 31-1201	EA	15.6" x 15.5" x 5.152", Mounts Up To Two 26 Ampere Hours And Charger, Battery Back Box (Notifier BB-26)	541.45 129.79
28 46 13 31-1202	EA	Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH)	235.62 64.89
28 46 13 31-1203	EA	Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH1)	131.42 16.22
28 46 13 31-1204	EA	Battery Bracket For Two 26 Ampere Hours Batteries (Notifier SEISKIT-BB25)	355.12 25.96
28 46 13 31-1205	EA	Two 26 Ampere Hours Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB)	244.14 25.96
28 46 13 31-1206	EA	Two 12 Ampere Hours Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA)	271.02 25.96
28 46 13 31-1207	EA	Two 55 Ampere Hours Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB)	288.76 25.96
28 46 13 31-1208	EA	Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For FIREVOICE 25/50 Series (Notifier SEISKIT-2550)	428.35 25.96
28 46 13 31-1209	EA	Two 26 Ampere Hour Battery Bracket Seismic Kit For NFS-320 And BB-26 Series (Notifier SEISKIT-320/B26)	254.43 25.96
28 46 13 31-1210	EA	Two 100 Ampere Hour Battery Bracket Seismic Kit For BB-100 And BB-200 Series (Notifier SEISKIT-BB100)	359.70 25.96
Note: Two kits are required for the BB-200			
28 46 13 31-1211	EA	Two 18 Ampere Hour Battery Bracket Seismic Kit For BB-17 Series (Notifier SEISKIT-BB17)	311.64 25.96
Note: Two kits are required for the BB-200			
28 46 13 31-1212	EA	Two 26 Ampere Hour Battery Bracket Seismic Kit For BB-25 Series (Notifier SEISKIT-BB25)	318.51 25.96
Note: Two kits are required for the BB-200			
28 46 13 31-1213	EA	Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For SFP-5UD, SFP-10UD, Firewarden 100-2, RP-2001, And RP-2002 Series (Notifier SEISKIT-COMMENC)	278.46 25.96
Note: Two kits are required for the BB-200			
28 46 13 31-1214	EA	Two 7 Or 12 Ampere Hour Battery Bracket Seismic Kit For FCPS-24S6/8, CAB-PS1, SFP-2402 And SFP-2404 Series (Notifier SEISKIT-PS/2/4)	261.30 25.96
Note: Two kits are required for the BB-200			
28 46 13 31-1215		Power Supplies And Chargers (28 46 13 31-0973)	
28 46 13 31-1216	EA	120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610)	1,553.40 48.67
28 46 13 31-1217	EA	220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E)	1,629.48 48.67
28 46 13 31-1218	EA	Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24)	2,257.43 32.45
28 46 13 31-1219	EA	6A Auxiliary Power Supply (Notifier APS-6R)	1,062.58 32.45
28 46 13 31-1220	EA	10 Amperes Battery Charger (Notifier BC10A)	1,188.86 48.67
28 46 13 31-1221	EA	33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100)	653.38 38.94
Note: Holds four 55 ampere hour or two 100 ampere hour batteries			
28 46 13 31-1222	EA	Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R)	661.39 38.94
Note: Holds four 55 ampere hour or two 100 ampere hour batteries			
28 46 13 31-1223	EA	30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200)	917.91 38.94
Note: Holds four 55 ampere hour or four 100 ampere hour batteries			
28 46 13 31-1224	EA	30.34" x 36.5" x 7.5", Holds Four 55 Ampere Hours Or Four 100 Ampere Hours Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R)	917.91 38.94
28 46 13 31-1225	EA	15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1)	229.65 32.45
28 46 13 31-1226	EA	25 To 120 Ampere Hours Battery Charger (Notifier CHG-120)	1,736.50 32.45
28 46 13 31-1227	EA	Mounts XPIQ-Ps And/or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS)	103.39 16.22
28 46 13 31-1228	EA	Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1)	162.31 16.22
28 46 13 31-1229	EA	8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8)	1,145.99 32.45
28 46 13 31-1230	EA	8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E)	925.88 97.34
28 46 13 31-1231	EA	Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R)	886.79 97.34
28 46 13 31-1232	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8)	1,023.09 97.34
28 46 13 31-1233	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E)	1,014.64 97.34
28 46 13 31-1234	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM)	980.70 48.67
28 46 13 31-1235	EA	Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME)	980.70 48.67
28 46 13 31-1236	EA	12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12)	1,214.22 48.67
28 46 13 31-1237	EA	12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E)	1,160.33 48.67
28 46 13 31-1238	EA	12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM)	1,232.18 97.34
28 46 13 31-1239	EA	12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME)	1,232.18 97.34
28 46 13 31-1240	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6)	867.77 97.34
28 46 13 31-1241	EA	6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E)	867.77 97.34
28 46 13 31-1242	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8)	935.39 97.34
28 46 13 31-1243	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E)	935.39 97.34
28 46 13 31-1244	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA)	754.70 97.34
28 46 13 31-1245	EA	9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA)	886.79 97.34
28 46 13 31-1246	EA	Class A Adapter HPFF8/HPFF12 (Notifier HPP31076)	189.89 16.22
28 46 13 31-1247	EA	Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A)	1,544.89 32.45
28 46 13 31-1248	EA	Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4)	227.36 32.45
28 46 13 31-1249	EA	240 Volt AC Addressable Power Supply (Notifier AMPS-24E)	1,774.25 32.45
28 46 13 31-1250	EA	6 Amperes, 120 Volt AC Auxiliary Power Supply (Notifier APS2-6R)	898.41 97.34
28 46 13 31-1251	EA	6 Amperes, 220-240 Volt AC Auxiliary Power Supply (Notifier APS2-6RE)	935.39 97.34
28 46 13 31-1252	EA	25 To 75 Ampere Hour Sealed Lead Acid Battery Charger (Notifier CHG-75)	842.58 32.45
28 46 13 31-1253	EA	6 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6E)	866.71 97.34
28 46 13 31-1254	EA	6 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6R)	846.63 97.34
28 46 13 31-1255		Network Control Annunciators (28 46 13 31-0973)	
28 46 13 31-1256	EA	Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2)	3,138.28 97.34
28 46 13 31-1257	EA	Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO)	112.08 19.47

**Electronic Safety and Security 28****Life Safety 28 40****Fire Detection and Alarm 28 46****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1258 EA Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit)	78.19	19.47
28 46 13 31-1259 FIRSTVISION Firefighter's Display (28 46 13 31-0973)		
28 46 13 31-1260 EA ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD)	24,003.81	648.95
28 46 13 31-1261 FlashScan Addressable Modules (28 46 13 31-0973)		
28 46 13 31-1262 EA Intelligent Addressable Control Module (Notifier FCM-1)	259.35	32.45
28 46 13 31-1263 EA Addressable Dual Monitor Module (Notifier FDM-1)	291.46	32.45
28 46 13 31-1264 EA Intelligent Addressable Monitor Module (Notifier FMM-1)	212.96	32.45
28 46 13 31-1265 EA Intelligent Addressable Miniature Monitor Module (Notifier FMM-101)	187.99	32.45
28 46 13 31-1266 EA Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20)	403.85	32.45
28 46 13 31-1267 EA Intelligent Addressable Relay Module (Notifier FRM-1)	192.18	32.45
28 46 13 31-1268 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1)	330.71	32.45
28 46 13 31-1269 EA SLC Loop Powered Fault Isolator Module (Notifier ISO-X)	209.39	32.45
28 46 13 31-1270 Addressable Device Bases And Accessories (28 46 13 31-0973)		
28 46 13 31-1271 EA Intelligent Detector Base With Flange (Notifier B710LP)	65.53	16.22
28 46 13 31-1272 EA Weatherproof Device Housing (Notifier DH400OE-1)	691.07	32.45
28 46 13 31-1273 EA Detector Base For All Wireless Smoke And Heat Detectors (Notifier B210W)	61.63	16.22
28 46 13 31-1274 EA Swift AV Base Ceiling (Notifier WAV-CRL)	328.78	16.22
28 46 13 31-1275 EA Swift AV Base Wall (Notifier WAV-RL)	328.78	16.22
28 46 13 31-1276 XP6/XP10 Transponder (28 46 13 31-0973)		
28 46 13 31-1277 EA Synchronization Daughter Module For XP6-C (Notifier SYNC-1)	187.09	32.45
28 46 13 31-1278 EA Six Circuit Supervised Control Module (Notifier XP6-C)	999.71	32.45
28 46 13 31-1279 EA Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA)	1,213.79	32.45
28 46 13 31-1280 EA Six Relay Control Module (Notifier XP6-R)	960.46	32.45
28 46 13 31-1281 EA Ten Input Monitor Module (Notifier XP10-M)	1,160.27	32.45
28 46 13 31-1282 LCD Display Annunciators (28 46 13 31-0973)		
28 46 13 31-1283 EA 80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80)	1,256.16	97.34
28 46 13 31-1284 EA 80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80)	1,782.44	97.34
28 46 13 31-1285 EA 640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160)	1,846.66	97.34
28 46 13 31-1286 EA 8 To 16 Switch Smoke Control Expander (Notifier SCE-8)	939.02	32.45
28 46 13 31-1287 EA 8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L)	498.52	32.45
28 46 13 31-1288 EA Eight Switch Smoke Control Master Module (Notifier SCS-8)	1,215.90	32.45
28 46 13 31-1289 EA White, 80 Character Display, Remote LCD Annunciator (Notifier N-ANN-80-W)	625.79	97.34
28 46 13 31-1290 ONYX ACM And AEM Series LED Annunciators (28 46 13 31-0973)		
28 46 13 31-1291 EA Remote, Eight Form C Relay Module (Notifier ACM-8R)	538.57	32.45
28 46 13 31-1292 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT)	1,329.75	32.45
28 46 13 31-1293 EA 16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT)	1,013.98	32.45
28 46 13 31-1294 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT)	1,329.75	32.45
28 46 13 31-1295 EA 24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT)	1,013.98	32.45
28 46 13 31-1296 EA 32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A)	1,013.98	32.45
28 46 13 31-1297 EA 32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A)	906.94	32.45
28 46 13 31-1298 EA 48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A)	1,013.98	32.45
28 46 13 31-1299 EA 48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A)	906.94	32.45
28 46 13 31-1300 Graphic Annunciator - Lamp Driver Modules (28 46 13 31-0973)		
28 46 13 31-1301 EA Single Annunciator Flush Mounted Back Box (Notifier ABF-1B)	390.25	64.89
28 46 13 31-1302 EA Single Annunciator Flush Mounted Back Box With Glass Door And Key Lock (Notifier ABF-1DB)	427.72	64.89
28 46 13 31-1303 EA Two Annunciator Flush Mounted Back Box (Notifier ABF-2B)	488.71	81.12
28 46 13 31-1304 EA Two Annunciator Flush Mounted Back Box With Glass Door And Key Lock (Notifier ABF-2DB)	536.88	81.12
28 46 13 31-1305 EA Four Annunciator Flush Mounted Back Box (Notifier ABF-4B)	872.94	113.57
28 46 13 31-1306 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1)	155.79	19.47
28 46 13 31-1307 EA Single Annunciator Surface Mounted Back Box (Notifier ABS-1B)	237.72	64.89
28 46 13 31-1308 EA Single Annunciator Surface Mounted Back Box With Trim (Notifier ABS-1TB)	194.00	16.22
28 46 13 31-1309 EA Two Annunciator Surface Mounted Back Box (Notifier ABS-2B)	306.41	64.89
28 46 13 31-1310 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Back Box (Notifier ABS-2D)	561.86	81.12
28 46 13 31-1311 EA Red, Surface (Or Semi-Flush) Mounted Back Box For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR)	364.44	16.22
28 46 13 31-1312 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Back Box (Notifier ABS-4D)	921.11	113.57
28 46 13 31-1313 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Back Box (Notifier ABS-4DR)	615.48	19.47
28 46 13 31-1314 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Back Box (Notifier ABS-8RB)	234.22	25.96
28 46 13 31-1315 EA Annunciator Key Switch (Notifier AKS-1B)	117.01	9.73
28 46 13 31-1316 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D)	140.71	32.45
28 46 13 31-1317 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32)	906.94	32.45
28 46 13 31-1318 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24)	204.63	6.49
28 46 13 31-1319 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48)	256.11	6.49
28 46 13 31-1320 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32)	744.59	32.45
28 46 13 31-1321 EA Lamp Driver Module (Notifier LDM-R32)	997.37	32.45
28 46 13 31-1322 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L)	925.29	32.45

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1323 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48)	262.98	6.49
28 46 13 31-1324 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D)	237.45	19.47
28 46 13 31-1325 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D)	141.21	19.47
28 46 13 31-1326 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR)	141.21	19.47
28 46 13 31-1327 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS1)	227.15	19.47
28 46 13 31-1328 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS2)	227.15	19.47
28 46 13 31-1329 EA Input/Output Module For Driving Graphic Annunciators Or Relays (Notifier N-ANN-RLED)	592.10	32.45
28 46 13 31-1330 Network Gateways (28 46 13 31-0973)		
28 46 13 31-1331 EA Common Alerting Protocol Gateway (Notifier CAP-GW)	3,340.51	32.45
28 46 13 31-1332 EA Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF)	2,486.73	32.45
28 46 13 31-1333 EA Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF)	2,801.61	32.45
28 46 13 31-1334 EA Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF)	3,086.91	32.45
28 46 13 31-1335 EA Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W)	2,508.92	32.45
28 46 13 31-1336 EA Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS-NCM-WMF)	2,441.30	32.45
28 46 13 31-1337 EA Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-WSF)	2,748.78	32.45
28 46 13 31-1338 EA Modbus Gateway (Notifier MODBUS-GW)	2,738.21	32.45
28 46 13 31-1339 EA 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW)	3,171.09	21.42
28 46 13 31-1340 EA Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS)	4,713.80	21.42
28 46 13 31-1341 EA 1920x1080P Wide Screen (Notifier MON-42LCDW)	14,931.60	21.42
28 46 13 31-1342 EA Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORZ-SD)	749.47	48.67
28 46 13 31-1343 EA Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD)	1,379.37	48.67
28 46 13 31-1344 EA Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD)	2,016.67	48.67
28 46 13 31-1345 EA Mass Notification Voice Paging (Notifier NOTIFY-IP)	1,251.07	
28 46 13 31-1346 EA Embedded NFN Gateway (Notifier NFN-GW-EM)	3,882.65	32.45
28 46 13 31-1347 EA NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F)	3,882.65	32.45
28 46 13 31-1348 EA High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW-PC-HNMF)	3,794.86	32.45
28 46 13 31-1349 EA High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW-PC-HNSF)	4,418.29	32.45
28 46 13 31-1350 EA High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW)	3,794.86	32.45
28 46 13 31-1351 EA NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W)	3,882.65	32.45
28 46 13 31-1352 EA Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER)	1,778.53	
28 46 13 31-1353 EA ONYXWorks Workstation (Notifier ONYXWORKS-WS)	28,284.38	778.74
28 46 13 31-1354 EA Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW)	7,034.94	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 13 31-1355 EA Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF)	7,034.94	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 13 31-1356 EA Fiber Optics, Standard Network Repeater Board (Notifier RPT-F)	1,163.81	32.45
28 46 13 31-1357 EA Wire, Standard Network Repeater Board (Notifier RPT-W)	949.31	32.45
28 46 13 31-1358 EA Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF)	1,127.88	32.45
28 46 13 31-1359 EA Signaling Line Circuit Integration Module (Notifier SLC-IM)	1,257.85	32.45
28 46 13 31-1360 EA VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW)	2,611.42	32.45
28 46 13 31-1361 EA Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS)	2,673.40	32.45
28 46 13 31-1362 EA Windows Hard Drive Upgrade (Notifier WIN7-UG-US-3)	2,964.22	
28 46 13 31-1363 EA Intuitive Color 10" Touch Screen Providing Color Coded Information Of Detailed System Status (Notifier NCD)	1,613.59	21.42
28 46 13 31-1364 EA SWIFT Wireless Gateway With Flashscan (Notifier FWGS)	510.17	32.45
28 46 13 31-1365 NOTI-FIRE-NET Network Components (28 46 13 31-0973)		
28 46 13 31-1366 EA Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3)	3,882.65	32.45
28 46 13 31-1367 EA Fiber Optic Network Communications Module (Notifier NCM-F)	1,718.66	32.45
28 46 13 31-1368 EA NOTI-FIRE-NET Web Server (Notifier NWS)	3,882.65	32.45
28 46 13 31-1369 EA Wired Network Communications Module (Notifier NCM-W)	1,636.59	32.45
28 46 13 31-1370 EA Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit)	140.40	16.22
28 46 13 31-1371 FireWarden Addressable Fire Panels (28 46 13 31-0973)		
28 46 13 31-1372 EA 50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50)	3,001.63	648.95
28 46 13 31-1373 EA Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100)	3,634.95	648.95
28 46 13 31-1374 EA Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C)	3,100.55	324.47
28 46 13 31-1375 EA Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E)	3,100.55	324.47
28 46 13 31-1376 EA Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R)	3,087.88	324.47
28 46 13 31-1377 EA Black, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, Built In Annunciator, 50 Point Addressable Fire Alarm Control Panel (Notifier NFW-50C)	3,521.10	648.95
28 46 13 31-1378 EA Red, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, 50 Point Addressable Fire Alarm Control Panel (NFW-50R)	2,574.34	648.95
28 46 13 31-1379 FireWarden Accessories (28 46 13 31-0973)		



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28 46 13 31-1380 EA Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	232.35	48.67
28 46 13 31-1381 EA Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T)	220.91	48.67
28 46 13 31-1382 FireWarden Devices (28 46 13 31-0973)		
28 46 13 31-1383 EA SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	207.61	32.45
28 46 13 31-1384 EA Intelligent Addressable Control Module (Notifier NC-100)	250.43	32.45
28 46 13 31-1385 EA Intelligent Addressable Relay Module (Notifier NC-100R)	239.72	32.45
28 46 13 31-1386 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	496.07	48.67
28 46 13 31-1387 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R)	600.54	48.67
28 46 13 31-1388 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100)	239.72	32.45
28 46 13 31-1389 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	236.49	48.67
28 46 13 31-1390 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H)	236.49	48.67
28 46 13 31-1391 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R)	236.49	48.67
28 46 13 31-1392 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100).....	329.26	48.67
28 46 13 31-1393 EA Intelligent Addressable Monitor Module (Notifier NMM-100)	204.04	32.45
28 46 13 31-1394 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	183.53	32.45
28 46 13 31-1395 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	283.43	32.45
28 46 13 31-1396 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100)	248.98	48.67
28 46 13 31-1397 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100)	320.00	32.45
28 46 13 31-1398 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6).....	1,185.24	32.45
28 46 13 31-1399 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories (28 46 13 31-0973)		
28 46 13 31-1400 EA 120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402).....	1,930.33	519.16
28 46 13 31-1401 EA 120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404)	2,160.47	519.16
28 46 13 31-1402 EA 240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E).....	1,297.73	162.24
28 46 13 31-1403 EA 240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E).....	1,465.74	162.24
28 46 13 31-1404 EA Class A Converter Module (Notifier CAC-4)	445.89	32.45
28 46 13 31-1405 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	162.79	19.47
28 46 13 31-1406 EA Remote Zone Annunciator (Notifier RZA-4X)	238.07	48.67
28 46 13 31-1407 EA Red, Dress Panel (Notifier DP-51050).....	196.26	19.47
28 46 13 31-1408 EA Black, Dress Panel (Notifier DP-51050B).....	198.55	19.47
28 46 13 31-1409 SFP-5UD 5 Zone Control Panels And Accessories (28 46 13 31-0973)		
28 46 13 31-1410 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	3,072.99	648.95
28 46 13 31-1411 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC).....	4,521.50	486.72
28 46 13 31-1412 EA 240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE).....	2,983.28	324.47
28 46 13 31-1413 EA Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	2,983.28	324.47
28 46 13 31-1414 EA Class A Converter Module (Notifier N-CAC-5X)	461.91	32.45
28 46 13 31-1415 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE)	176.24	19.47
28 46 13 31-1416 EA Five Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-5UDC)	3,892.15	486.72
Note: Includes internal dress panel with built-in annunciator module		
28 46 13 31-1417 EA 240 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDE).....	2,578.57	324.47
28 46 13 31-1418 EA Red, 120 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDR)	2,556.38	324.47
28 46 13 31-1419 SFP-10UD 10 Zone Control Panels And Accessories (28 46 13 31-0973)		
28 46 13 31-1420 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	5,500.75	648.95
28 46 13 31-1421 EA 240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE).....	4,113.28	486.72
28 46 13 31-1422 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD)	3,572.51	648.95
28 46 13 31-1423 EA Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	4,762.23	648.95
28 46 13 31-1424 EA Four Channel, Dual Line, Stand-Alone Fire Alarm Communicator (Fire-Lite 411UDAC).....	958.23	97.34
28 46 13 31-1425 EA 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-10UDC)	4,795.76	648.95
Note: Includes internal dress panel with built-in annunciator module		
28 46 13 31-1426 EA 240 Volt AC, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDE).....	3,578.33	486.72
28 46 13 31-1427 EA Red, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDR)	4,200.86	648.95
28 46 13 31-1428 Smoke Detectors (28 46 13 31-0973)		
28 46 13 31-1429 EA Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	354.24	48.67
28 46 13 31-1430 EA Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	614.70	48.67
28 46 13 31-1431 EA Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,490.28	48.67
28 46 13 31-1432 EA Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	208.32	48.67
Note: For use with DNR(W) duct detector housing.		
28 46 13 31-1433 EA Filters For Harsh Detector (Notifier RF-FTX)	25.38	
28 46 13 31-1434 EA Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY)	212.52	32.45
28 46 13 31-1435 EA Addressable Beam Detector With Reflector, UL Listed (Notifier FS-OSI-RI)	1,836.59	48.67
28 46 13 31-1436 EA Intelligent Addressable Photo Detector With Flashscan, White (Notifier FSP-951)	216.62	48.67
28 46 13 31-1437 EA Intelligent Addressable Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951-IV).....	235.50	48.67

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28 46 13 31-1438 EA Remote Test Capable Intelligent Photo Detector With Flashscan, White (Notifier FSP-951R).....	226.06	48.67
28 46 13 31-1439 EA Remote Test Capable Intelligent Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951R-IV)	243.22	48.67
28 46 13 31-1440 EA Intelligent Addressable Photo/Thermal Detector With Flashscan, White (Notifier FSP-951T)	227.20	48.67
28 46 13 31-1441 EA Intelligent Addressable Photo/Thermal Detector With Flashscan, Ivory (Notifier FSP-951T-IV)	244.36	48.67
28 46 13 31-1442 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan, White (Notifier FST-951)	186.58	48.67
28 46 13 31-1443 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan (Notifier FST-951H).....	186.58	48.67
28 46 13 31-1444 EA Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan And Clip, Ivory (Notifier FST-951H-IV)	202.60	48.67
28 46 13 31-1445 EA Intelligent Addressable 135 Degree Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951-IV).....	202.60	48.67
28 46 13 31-1446 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan, White (Notifier FST-951R)	186.58	48.67
28 46 13 31-1447 EA Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951R-IV).....	202.60	48.67
28 46 13 31-1448 EA Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, White (Notifier FSV-951R)	484.06	48.67
28 46 13 31-1449 EA Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, Ivory (Notifier FSV-951R-IV)	518.39	48.67
28 46 13 31-1450 EA Wireless Photo-Heat Detector, Accclimate, With Flashscan (Notifier FWD-200ACCLIMATE)	482.92	48.67
28 46 13 31-1451 EA Wireless Photo Detector With Flashscan (Notifier FWD-200P)	445.16	48.67
28 46 13 31-1452 EA Wireless Fixed Temp Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200FIX135).....	405.12	48.67
28 46 13 31-1453 EA Wireless ROR Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200ROR135)	405.12	48.67
28 46 13 31-1454 EA Intelligent Addressable Carbon Monoxide Detector With Flashscan (Notifier FPC-951)	297.57	48.67
28 46 13 31-1455 EA Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-250)	2,820.33	48.67
28 46 13 31-1456 EA Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-500)	3,454.42	48.67
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.		
28 46 13 31-1457 Pull Stations (28 46 13 31-0973)		
28 46 13 31-1458 EA Trim Ring For NBG12 Series Pull Station (Notifier BG12TR)	36.78	6.49
28 46 13 31-1459 EA One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Back Box (Notifier BG-2)	93.43	16.22
28 46 13 31-1460 EA Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Back Box (Notifier BG-2R)	80.05	16.22
28 46 13 31-1461 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1)	123.33	32.45
28 46 13 31-1462 EA DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	136.03	32.45
28 46 13 31-1463 EA Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FTS).....	186.00	32.45
28 46 13 31-1464 EA Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R)	123.33	32.45
28 46 13 31-1465 EA Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS)	141.96	32.45
28 46 13 31-1466 EA Standard Local Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL)	141.96	32.45
28 46 13 31-1467 EA Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSR)	141.96	32.45
28 46 13 31-1468 EA Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1)	134.34	32.45
28 46 13 31-1469 EA Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R).....	145.35	32.45
28 46 13 31-1470 EA Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL).....	940.10	38.94
28 46 13 31-1471 EA Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S).....	107.34	32.45
28 46 13 31-1472 EA Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12)	112.26	32.45
28 46 13 31-1473 EA Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L)	138.48	32.45
28 46 13 31-1474 EA Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB).....	336.55	38.94
28 46 13 31-1475 EA Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS)	166.43	32.45
28 46 13 31-1476 EA Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR)	140.40	32.45
28 46 13 31-1477 EA Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX)	285.21	32.45
28 46 13 31-1478 EA Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE).....	68.88	6.49
28 46 13 31-1479 EA Dual Action, Wireless Pull Station (Notifier NBG-12WL).....	472.60	38.94
28 46 13 31-1480 Rate Compensation Heat Detectors (28 46 13 31-0973)		
28 46 13 31-1481 EA 135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135)	254.33	48.67
28 46 13 31-1482 EA 194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194)	254.33	48.67
28 46 13 31-1483 FM Series Door Releases (28 46 13 31-0973)		
28 46 13 31-1484 EA 1/2" Door Holder Spacer (Notifier FM900-50).....	40.88	9.73
28 46 13 31-1485 EA 3/4" Door Holder Spacer (Notifier FM900-75).....	40.88	9.73
28 46 13 31-1486 EA 1" Door Holder Spacer (Notifier FM900-100).....	40.88	9.73
28 46 13 31-1487 EA Door Holder Extension Kit (Notifier FM900).....	43.55	9.73
28 46 13 31-1488 EA 90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	44.45	9.73
28 46 13 31-1489 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980)	286.22	48.67
28 46 13 31-1490 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996)	247.20	48.67
28 46 13 31-1491 EA 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998)	247.20	48.67
28 46 13 31-1492 Multicriteria Fire Detector (28 46 13 31-0973)		
28 46 13 31-1493 EA Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851)	354.77	48.67
28 46 13 31-1494 EA Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851).....	353.63	48.67
Note: Detects fire, thermal, photo, CO and IR, with Flashscan.		
28 46 13 31-1495 EA Multi-Criteria Photo/Temp/Infrared Detector, White (Notifier FPTI-951).....	232.35	48.67
28 46 13 31-1496 EA Multi-Criteria Photo/Temp/Infrared Detector, Ivory (Notifier FPTI-951-IV)	240.36	48.67
28 46 13 31-1497 EA Intelligent Addressable Combination Multi-Criteria Photoelectric And Carbon Monoxide Detector With Flashscan (Notifier FSCO-951).....	354.77	48.67



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1498 Modules (28 46 13 31-0973)				
28 46 13 31-1499	EA	Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	420.72	32.45
28 46 13 31-1500	EA	Addressable Firephone Control Module (Notifier FTM-1)	261.68	32.45
28 46 13 31-1501	EA	Wireless Monitor Module With Flashscan (Notifier FW-MM)	406.99	32.45
28 46 13 31-1502	EA	Wireless Relay Module With Flashscan (Notifier FW-RM).....	469.92	32.45
28 46 13 31-1503	EA	Wireless Sync Module (Notifier W-SYNC).....	448.45	32.45
28 46 13 31-1504 DH Series Door Releases (28 46 13 31-0973)				
28 46 13 31-1505	EA	Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	220.62	48.67
28 46 13 31-1506	EA	Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB)	234.64	48.67
28 46 13 31-1507	EA	Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	247.80	48.67
28 46 13 31-1508	EA	Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	244.36	48.67
28 46 13 31-1509	EA	Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	255.80	48.67
28 46 13 31-1510	EA	Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	265.53	48.67
28 46 13 31-1511	EA	Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC)	220.62	48.67
28 46 13 31-1512	EA	Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	232.92	48.67
28 46 13 31-1513	EA	Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	247.80	48.67
28 46 13 31-1514	EA	Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1)	279.26	48.67
28 46 13 31-1515	EA	Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	297.57	48.67
28 46 13 31-1516	EA	Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1)	318.73	48.67
28 46 13 31-1517	EA	Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	323.88	48.67
28 46 13 31-1518	EA	Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	345.62	48.67
28 46 13 31-1519	EA	Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2)	371.94	48.67
28 46 13 31-1520	EA	0.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC)	25.51	6.49
28 46 13 31-1521	EA	0.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	25.51	6.49
28 46 13 31-1522	EA	0.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D)	27.85	6.49
28 46 13 31-1523	EA	1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC)	25.51	6.49
28 46 13 31-1524	EA	1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	25.51	6.49
28 46 13 31-1525	EA	1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D)	27.85	6.49
28 46 13 31-1526	EA	1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC).....	26.71	6.49
28 46 13 31-1527	EA	1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC)	26.71	6.49
28 46 13 31-1528	EA	1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B).....	27.85	6.49
28 46 13 31-1529	EA	1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D)	29.17	6.49
28 46 13 31-1530	EA	2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC)	29.17	6.49
28 46 13 31-1531	EA	2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC)	29.17	6.49
28 46 13 31-1532	EA	2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B).....	30.37	6.49
28 46 13 31-1533	EA	2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D)	30.37	6.49
28 46 13 31-1534	EA	3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC)	30.37	6.49
28 46 13 31-1535	EA	3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B).....	31.69	6.49
28 46 13 31-1536	EA	3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D)	31.69	6.49
28 46 13 31-1537	EA	4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC)	32.89	6.49
28 46 13 31-1538	EA	4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC)	32.89	6.49
28 46 13 31-1539	EA	4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB).....	34.20	6.49
28 46 13 31-1540	EA	4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD).....	37.92	6.49
28 46 13 31-1541	EA	5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC)	36.66	6.49
28 46 13 31-1542	EA	5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B).....	35.41	6.49
28 46 13 31-1543	EA	5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D)	37.92	6.49
28 46 13 31-1544	EA	Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCPC)	35.66	9.73
28 46 13 31-1545	EA	Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB)	36.86	9.73
28 46 13 31-1546	EA	Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD)	40.69	9.73
28 46 13 31-1547	EA	Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC)	65.58	9.73
28 46 13 31-1548	EA	Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB).....	69.24	9.73
28 46 13 31-1549	EA	Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD)	72.90	9.73
28 46 13 31-1550	EA	Surface Mounted Back Box, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC)	61.05	16.22
28 46 13 31-1551	EA	Surface Mounted Back Box, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB).....	63.57	16.22
28 46 13 31-1552	EA	Surface Mounted Back Box, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBD)	68.61	16.22
28 46 13 31-1553	EA	Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF).....	353.54	
28 46 13 31-1554 First Command (28 46 13 31-0973)				
28 46 13 31-1555	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100).....	6,700.02	811.19
28 46 13 31-1556	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E)	6,763.41	811.19
28 46 13 31-1557	EA	Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA)	1,801.23	64.89
28 46 13 31-1558	EA	Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS, Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE).....	1,848.78	64.89
28 46 13 31-1559	EA	Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA).....	3,281.60	64.89
28 46 13 31-1560	EA	Black, , 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE).....	3,387.26	64.89
28 46 13 31-1561	EA	50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt)	843.00	32.45
28 46 13 31-1562	EA	50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt)	843.00	32.45
28 46 13 31-1563	EA	Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4).....	527.13	32.45

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1564	EA	Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6)	687.26	32.45
28 46 13 31-1565	EA	Standalone Firefighter Telephone System (Notifier NFC-FFT)	2,431.00	64.89
Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.				
28 46 13 31-1566	EA	Local Operator Console (Notifier NFC-LOC)	2,380.28	64.89
Note: Includes built-in microphone, message and zone control switches, black.				
28 46 13 31-1567	EA	Black, Remote Microphone (Notifier NFC-RM)	689.24	
28 46 13 31-1568	EA	Remote Page Unit (Notifier NFC-RPU)	2,015.73	64.89
Note: Includes built-in microphone, message control switches, black.				
28 46 13 31-1569	EA	70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V)	400.13	32.45
28 46 13 31-1570	EA	Firefighters Phone Jack (Notifier N-FPJ)	182.51	9.73
28 46 13 31-1571	EA	Thumblatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH)	51.05	9.73
28 46 13 31-1572	EA	Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B)	163.94	19.47
28 46 13 31-1573 LED Displays (28 46 13 31-0973)				
28 46 13 31-1574	EA	2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215)	1,886.85	38.94
28 46 13 31-1575	EA	Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW)	2,651.41	51.92
28 46 13 31-1576	EA	4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT)	2,682.06	51.92
28 46 13 31-1577	EA	8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8)	2,576.39	51.92
28 46 13 31-1578	EA	16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16)	3,601.34	51.92
28 46 13 31-1579	EA	LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V)	2,734.89	51.92
28 46 13 31-1580 Control Relays (28 46 13 31-0973)				
28 46 13 31-1581	EA	Single SPDT Relay With LED With Metal Back Box And Red Plastic Cover (Notifier MR-101/CR)	81.31	16.22
28 46 13 31-1582	EA	Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T)	61.97	16.22
28 46 13 31-1583	EA	Four Position SPDT Relay With LEDs With Metal Back Box And Red Plastic Cover (Notifier MR-104/CR)	222.21	32.45
28 46 13 31-1584	EA	Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T)	124.27	16.22
28 46 13 31-1585	EA	Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T)	148.01	16.22
28 46 13 31-1586	EA	24 Volt DC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C)	228.50	32.45
28 46 13 31-1587	EA	120 Volt AC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C)	228.50	32.45
28 46 13 31-1588	EA	Single DPDT Relay With LED With Metal Back Box And Red Plastic Cover (Notifier MR-201/CR)	117.52	32.45
28 46 13 31-1589	EA	Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T)	67.00	16.22
28 46 13 31-1590	EA	Four Position DPDT Relay With LEDs With Metal Back Box And Red Plastic Cover (Notifier MR-204/CR)	242.81	32.45
28 46 13 31-1591	EA	24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1)	85.71	32.45
28 46 13 31-1592	EA	12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2)	85.71	32.45
28 46 13 31-1593	EA	9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4)	85.71	32.45
28 46 13 31-1594 Gamewell-FCI Fire Control Instruments (28 46 13 31-0973)				
28 46 13 31-1595 7100 Series And NetSOLO® (28 46 13 31-1594)				
28 46 13 31-1596 7100 Compact Analog Addressable Fire Alarm Control Panels (28 46 13 31-1595)				
28 46 13 31-1597	EA	Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M)	1,191.79	389.38
28 46 13 31-1598	EA	Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2)	5,128.25	648.95
28 46 13 31-1599	EA	Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D)	5,609.01	648.95
28 46 13 31-1600	EA	Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E)	5,128.25	648.95
28 46 13 31-1601	EA	Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E)	5,609.01	648.95
28 46 13 31-1602	EA	Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1)	1,611.00	
28 46 13 31-1603	EA	Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D)	1,932.63	
28 46 13 31-1604	EA	Analog Loop Unit (Gamewell-FCI ALU)	1,932.63	64.89
28 46 13 31-1605 NetSOLO® Intelligent Network (28 46 13 31-1595)				
28 46 13 31-1606	EA	Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO)	2,144.23	64.89
Note: Mounted in 7100 panel.				
28 46 13 31-1607	EA	Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP)	1,702.41	64.89
Note: Mounted in 7100 panel.				
28 46 13 31-1608 Components And Accessories (28 46 13 31-1595)				
28 46 13 31-1609	EA	Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100)	1,055.47	48.67
28 46 13 31-1610	EA	Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100)	800.14	64.89
28 46 13 31-1611	EA	Fiber Optic Line Driver Module (Gamewell-FCI FLD-1)	1,472.19	64.89
28 46 13 31-1612	EA	Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM)	590.23	64.89
28 46 13 31-1613	EA	Enclosure Box (Gamewell-FCI EN-7100)	474.57	129.79
28 46 13 31-1614	EA	Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2)	1,541.02	32.45
28 46 13 31-1615 E3 Series® Basic System (28 46 13 31-1594)				
28 46 13 31-1616	EA	Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3)	1,411.14	64.89
28 46 13 31-1617	EA	Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3)	1,212.08	64.89
28 46 13 31-1618	EA	Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3)	1,411.14	64.89
28 46 13 31-1619	EA	Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3)	1,212.08	64.89
28 46 13 31-1620	EA	LCD Keypad Display (Gamewell-FCI LCD-E3)	898.41	64.89
28 46 13 31-1621	EA	Power Supply Module (Gamewell-FCI PM-9)	1,178.07	64.89
28 46 13 31-1622	EA	Transponder 9 Amperes Power Supply (Gamewell-FCI PM-9 INX)	991.05	64.89

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1623	EA	Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A)	982.82	32.45
28 46 13 31-1624	EA	Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3)	561.10	64.89
28 46 13 31-1625	EA	Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO)	1,512.23	64.89
28 46 13 31-1626	EA	Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP)	1,266.14	64.89
28 46 13 31-1627	EA	Local Operating Console (Gamewell-FCI 1100-0455)	844.74	48.67
28 46 13 31-1628	EA	Network Graphic Annunciator (Gamewell-FCI 1100-0505)	2,731.64	48.67
28 46 13 31-1629	EA	70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70)	1,080.44	64.89
28 46 13 31-1630	EA	INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326)	3,303.43	64.89
28 46 13 31-1631	EA	8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1)	754.11	129.79
28 46 13 31-1632	EA	C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC)	552.46	129.79
28 46 13 31-1633	EA	Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP)	120.90	32.45
28 46 13 31-1634	EA	Programmable Switch Module (Gamewell-FCI ASM-16)	756.02	64.89
28 46 13 31-1635	EA	LED Driver module (Gamewell-FCI ANU-48)	756.02	64.89
28 46 13 31-1636	EA	Network Graphic Annunciator (Gamewell-FCI NGA)	2,289.87	48.67
28 46 13 31-1637 Addressable Devices, Module, Pulls And Accessories (28 46 13 31-1594)				
28 46 13 31-1638 Velociti® Series Sensors And Bases (28 46 13 31-1637)				
28 46 13 31-1639	EA	Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F)	236.15	48.67
28 46 13 31-1640	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F)	241.23	48.67
28 46 13 31-1641	EA	Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F)	256.46	48.67
28 46 13 31-1642	EA	Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F)	195.52	48.67
28 46 13 31-1643	EA	Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F)	203.99	48.67
28 46 13 31-1644	EA	Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F)	195.52	48.67
28 46 13 31-1645	EA	Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F)	292.01	48.67
28 46 13 31-1646	EA	Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS)	647.50	48.67
28 46 13 31-1647	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF)	543.12	81.12
28 46 13 31-1648	EA	Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF)	610.83	81.12
28 46 13 31-1649	EA	Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB)	292.59	
28 46 13 31-1650	EA	Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF)	59.53	16.22
28 46 13 31-1651	EA	Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F)	698.29	48.67
28 46 13 31-1652	EA	Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF)	138.25	16.22
28 46 13 31-1653	EA	Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F)	2,479.97	97.34
28 46 13 31-1654 Velociti® Series Modules And Pull Station (28 46 13 31-1637)				
28 46 13 31-1655	EA	Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2F)	172.38	32.45
28 46 13 31-1656	EA	Dual Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2IF)	279.88	32.45
28 46 13 31-1657	EA	Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4F)	189.31	32.45
28 46 13 31-1658	EA	Subloop Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4SF)	268.03	32.45
28 46 13 31-1659	EA	Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF)	223.17	32.45
28 46 13 31-1660	EA	Addressable Output Supervised Module (Gamewell-FCI AOM-2SF)	231.63	32.45
28 46 13 31-1661	EA	Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF)	321.92	64.89
28 46 13 31-1662	EA	Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF)	239.25	32.45
28 46 13 31-1663	EA	Telephone Filters (Gamewell-FCI AOM-TEL-FL)	38.37	6.49
28 46 13 31-1664 Components And Accessories (28 46 13 31-1637)				
28 46 13 31-1665	EA	Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)	94.24	25.96
		Note: Mounts on single gang box.		
28 46 13 31-1666	EA	Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5)	47.12	12.98
28 46 13 31-1667	EA	>2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3)	50.51	12.98
28 46 13 31-1668	EA	>4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5)	60.38	16.22
28 46 13 31-1669	EA	>8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10)	98.19	19.47
28 46 13 31-1670	EA	Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451)	146.72	25.96
		Note: Mounts on single gang box.		
28 46 13 31-1671 Fixed And Rate of Rise Heat Detectors (28 46 13 31-1637)				
28 46 13 31-1672	EA	135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P)	126.12	48.67
28 46 13 31-1673	EA	194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602)	126.12	48.67
28 46 13 31-1674	EA	135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603)	124.46	48.67
28 46 13 31-1675	EA	194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604)	124.46	48.67
28 46 13 31-1676 NAC Expander/Power Supply (28 46 13 31-1637)				
28 46 13 31-1677	EA	FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8)	2,257.15	519.16
28 46 13 31-1678	EA	6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6)	1,935.52	519.16
28 46 13 31-1679	EA	9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9)	2,096.34	519.16
28 46 13 31-1680 Batteries And Accessories (28 46 13 31-1594)				
28 46 13 31-1681	EA	B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A)	356.05	32.45
28 46 13 31-1682	EA	B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A)	907.91	32.45
28 46 13 31-1683	EA	B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A)	186.77	32.45
28 46 13 31-1684	EA	BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653)	436.19	64.89
28 46 13 31-1685	EA	BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654)	436.19	64.89

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1686	EA	12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970)	387.10	64.89
28 46 13 31-1687 Electronic Door Holders (28 46 13 31-1594)				
Note: Rixson products.				
28 46 13 31-1688	EA	XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000)	62.75	6.49
28 46 13 31-1689	EA	FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder (Gamewell-FCI 140-90000)	503.61	48.67
28 46 13 31-1690	EA	FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001)	688.13	48.67
28 46 13 31-1691	EA	FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002)	319.78	48.67
28 46 13 31-1692	EA	FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003)	304.54	48.67
28 46 13 31-1693	EA	FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004)	319.78	48.67
28 46 13 31-1694	EA	FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005)	319.10	48.67
28 46 13 31-1695 Fire Alarm Programming (28 46 13 31-1594)				
Note: For device replacement projects only. Tasks not to be used on projects where a fire alarm panel is replaced.				
28 46 13 31-1696	EA	Program And Test Up To 5 Total Fire Alarm Devices	500.00	
28 46 13 31-1697	EA	Program And Test >5 To 20 Total Fire Alarm Devices	1,000.00	
28 46 13 31-1698	EA	Program And Test >20 To 50 Total Fire Alarm Devices	2,000.00	
28 46 13 31-1699 Fire-Lite Fire Alarm (28 46 13 31-0972)				
28 46 13 31-1700 Intelligent Addressable Fire Alarm Control Panel (28 46 13 31-1699)				
28 46 13 31-1701	EA	50 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-50X)	1,357.81	259.58
28 46 13 31-1702	EA	198 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-200X)	1,745.30	292.02
28 46 13 31-1703	EA	954 Point, Addressable Fire Alarm Control Panels (Fire-Lite ES-1000X)	2,596.96	324.47
28 46 13 31-1704	EA	Loop Expander Module (Fire-Lite SLC-3LS)	768.16	48.67
28 46 13 31-1705	EA	Optional Cabinet For 1 Or 2 Modules (Fire-Lite BB-2F)	215.45	32.45
28 46 13 31-1706	EA	Optional Cabinet For Up To 6 Modules Mounted On CHS-6 (Fire-Lite BB-6F)	303.70	32.45
28 46 13 31-1707	EA	Battery Back Box (Fire-Lite BB-26)	186.58	19.47
28 46 13 31-1708	EA	Battery Box (Fire-Lite BB-55F)	343.22	19.47
28 46 13 31-1709	EA	Chassis, Mounts Up To 6 Multi-Modules In A BB-6F Cabinet (Fire-Lite CHS-6)	94.78	12.98
28 46 13 31-1710	EA	Chassis, Mounts Up To Six Multi-Modules In A BB-6F Cabine (Fire-Lite CHG-75)	804.14	32.45
28 46 13 31-1711	EA	Battery Charger For Lead-Acid Batteries With A Rating Of 25 To 75 AH (Fire-Lite CHG-120F)	1,713.74	64.89
28 46 13 31-1712	EA	6 AMP, NAC Expander Power Supply (Fire-Lite FL-PS6)	932.14	32.45
28 46 13 31-1713	EA	10 AMP, NAC Expander Power Supply (Fire-Lite FL-PS10)	963.09	32.45
28 46 13 31-1714	EA	Remote, Red LCD Annunciator Mimics The Information Displayed On The Face LCD Display (Fire-Lite ANN-80)	378.32	32.45
28 46 13 31-1715	EA	Led Driver Module Provides Connections To A User Supplied Graphic Annunciator (Fire-Lite ANN-I/O)	462.54	32.45
28 46 13 31-1716	EA	Annunciator Module Provides Three Leds For Each Zone: Alarm, Trouble, And Supervisory. Ships With Red Enclosure (Fire-Lite ANN-LED)	404.78	32.45
28 46 13 31-1717	EA	Provides Alarm (Red) Indicators For Up To 30 Input Zones Or Addressable Points (Fire-Lite ANN-RLED)	404.78	32.45
28 46 13 31-1718	EA	Relay Module Provides 10 Programmable Form-C Relays (Fire-Lite ANN-RLY)	325.90	32.45
28 46 13 31-1719	EA	Serial/Parallel Printer Gateway Module (Fire-Lite ANN-S/PG)	318.77	32.45
28 46 13 31-1720	EA	Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD365(A))	166.88	48.67
28 46 13 31-1721	EA	Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD365T(A))	186.36	48.67
28 46 13 31-1722	EA	Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD365R(A))	191.94	48.67
28 46 13 31-1723	EA	Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (CO) Detection (Fire-Lite SD365CO)	339.23	48.67
28 46 13 31-1724	EA	Low-Profile 135°F Fixed Thermal Sensor (Fire-Lite H365(A))	159.92	48.67
28 46 13 31-1725	EA	Low-Profile, Intelligent, Rate-Of-Rise Thermal Sensor (Fire-Lite H365R(A))	179.32	48.67
28 46 13 31-1726	EA	Low-Profile Intelligent 190°F/88°C Fixed Thermal Sensor (Fire-Lite H365HT(A))	210.95	48.67
28 46 13 31-1727	EA	Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite D365PL)	653.44	48.67
28 46 13 31-1728	EA	Addressable Low-Profile Ionization Smoke Detector (Fire-Lite CP355(A))	245.39	48.67
28 46 13 31-1729	EA	Addressable Low-Profile Photoelectric Smoke Detector (Fire-Lite SD355(A))	166.88	48.67
28 46 13 31-1730	EA	Addressable Low-Profile Photoelectric Smoke Detector With Thermal Sensor (Fire-Lite SD355T(A))	213.90	48.67
28 46 13 31-1731	EA	Remote Test Capable Addressable Photoelectric Smoke Detector For Use With DNR (W) Duct Detector Housing (Fire-Lite SD355R(A))	238.81	48.67
28 46 13 31-1732	EA	Addressable, Low-Profile Device That Provides Fire, Heat, And Carbon Monoxide (Co) Detection (Fire-Lite SD355CO)	177.31	48.67
28 46 13 31-1733	EA	Fast-Response, Low-Profile Heat Detector (Fire-Lite H355(A))	213.25	48.67
28 46 13 31-1734	EA	Fast-Response, Low-Profile Heat Detector With Rate-Of-Rise Option (Fire-Lite H355R(A))	206.57	48.67
28 46 13 31-1735	EA	Fast-Response, Low-Profile Heat Detector That Activates At 190°F/88°C (Fire-Lite H355HT(A))	241.01	48.67
28 46 13 31-1736	EA	Low-Profile, Intelligent, "Adapt" Multi-Sensor Detector (B350LP Base Included) (Fire-Lite AD355(A))	235.52	48.67
28 46 13 31-1737	EA	Programmable, Addressable Sounder Base (Fire-Lite B200S(A)-WH)	149.83	32.45
28 46 13 31-1738	EA	Addressable Sounder Base (Fire-Lite B200SR(A)-WH)	172.44	32.45
28 46 13 31-1739	EA	Programmable, Addressable Sounder Base, Low-Frequency (Fire-Lite B200S-LF-WH)	196.81	32.45
28 46 13 31-1740	EA	Addressable Sounder Base, Low-Frequency (Fire-Lite B200SR-LF-WH)	200.91	32.45
28 46 13 31-1741	EA	Intelligent Beam Smoke Detector (Fire-Lite BEAM355)	1,780.77	48.67
28 46 13 31-1742	EA	Intelligent Beam Smoke Detector With Integral Sensitivity Test (Fire-Lite BEAM355S)	2,037.40	48.67
28 46 13 31-1743	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Includes SD355R) (Fire-Lite D355PL(A))	290.58	32.45
28 46 13 31-1744	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing (Fire-Lite DNR(A))	177.80	32.45
28 46 13 31-1745	EA	Innovairflex Low-Flow Non-Relay Duct-Detector Housing, With NEMA-4 Rating, Watertight (Fire-Lite DNRW)	271.56	32.45
28 46 13 31-1746	EA	Addressable Control Module For One Class B Or A Zone Of Supervised Polarized Notification Appliances (Fire-Lite CMF-300)	115.64	19.47
28 46 13 31-1747	EA	Six-Circuit Supervised Control Module (Fire-Lite CMF-300-6)	592.49	32.45



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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
28 46 13 31-1748	EA	Addressable Relay Module Containing Two Isolated Sets Of Form-C Contacts, Which Operate As A Dpdt Switch (Fire-Lite CRF-300)	174.66	32.45
28 46 13 31-1749	EA	Six-Relay Control Module (Form-C Relays) (Fire-Lite CRF-300-6).....	495.37	32.45
28 46 13 31-1750	EA	Module Isolates The SLC (DCL) Loop From Short Circuit Conditions (Fire-Lite I300).....	94.63	16.22
28 46 13 31-1751	EA	Six-Fault Isolator Module (Fire-Lite ISO-6)	444.12	32.45
28 46 13 31-1752	EA	Dual Monitor Module (Fire-Lite MDF-300)	211.83	32.45
28 46 13 31-1753	EA	Addressable Monitor Module For One Zone Of Normally-Open Dry-Contact Initiating Devices (Fire-Lite MMF-300)	94.37	16.22
28 46 13 31-1754	EA	Ten-Input Monitor Module (Fire-Lite MMF-300-10).....	641.03	32.45
28 46 13 31-1755	EA	Miniature Version Of MMF-300 (Fire-Lite MMF-301).....	125.62	25.96
28 46 13 31-1756	EA	Addressable Monitor Module For One Zone Of Conventional Two-Wire Detectors (Fire-Lite MMF-302).....	178.46	32.45
28 46 13 31-1757	EA	Six-Zone Interface Module (Fire-Lite MMF-302-6).....	634.03	32.45
28 46 13 31-1758	EA	Mount For Modules (Fire-Lite SMB500).....	19.04	3.24
28 46 13 31-1759 Addressable Control Panels (28 46 13 31-1699)				
28 46 13 31-1760	EA	25 Point Intelligent Control (Fire Lite MS-25).....	2,213.04	648.95
28 46 13 31-1761	EA	50 Point Intelligent Control (Fire Lite MS-9050UD).....	2,435.69	648.95
28 46 13 31-1762	EA	198-Point Intelligent Control (Fire Lite MS-9200UDLS)	3,427.82	648.95
28 46 13 31-1763	EA	636-Point Intelligent Control (Fire Lite MS-9600LS)	5,053.18	648.95
28 46 13 31-1764	EA	636-Point Intelligent Control (Fire Lite MS-9600UDLS)	4,952.98	648.95
28 46 13 31-1765	EA	IP And 4G Cellur Fire Alarm Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	694.54	
28 46 13 31-1766 Silent Knight Fire Alarm (28 46 13 31-0972)				
28 46 13 31-1767 Addressable Fire Alarm Control Panel (28 46 13 31-1766)				
28 46 13 31-1768	EA	Addressable Fire Alarm Control Panel (Silent Knight 6820)	2,674.83	324.47
28 46 13 31-1769 Intelligent Addressable Fire Alarm Control Panel with Emergency Voice System (28 46 13 31-1766)				
28 46 13 31-1770	EA	Intelligent Fire Alarm Control Panel with Emergency Voice System (Silent Knight 6820EVS)	5,161.25	324.47
28 46 13 31-1771 Compatible EVS Equipment (28 46 13 31-1766)				
28 46 13 31-1772	EA	50 Watt Amplifier (Silent Knight EVS-50W)	942.19	64.89
28 46 13 31-1773	EA	125 Watt Amplifier (Silent Knight EVS-125W)	1,646.15	64.89
28 46 13 31-1774	EA	50/100 Watt Amplifier (Silent Knight EVS-100W)	2,044.40	64.89
28 46 13 31-1775	EA	External Backup Amplifier (Silent Knight EVS-100WBU).....	723.36	64.89
28 46 13 31-1776	EA	50 Watt Internal Amplifier (Silent Knight EVS-INT50W)	680.64	64.89
28 46 13 31-1777	EA	4 Additional Audio Circuits (Silent Knight EVS-CE4)	246.88	16.22
28 46 13 31-1778	EA	Remote Voice Module (Silent Knight EVS-RVM)	1,095.30	25.96
28 46 13 31-1779	EA	24 Switch Expander (Silent Knight EVS-SW24)	437.09	32.45
28 46 13 31-1780	EA	Network Voice Control Module (Silent Knight EVS-VCM).....	1,310.35	25.96
28 46 13 31-1781	EA	Local Operator Console (Silent Knight EVS-LOC).....	1,767.77	64.89
28 46 13 31-1782 Compatible SBUS Devices (28 46 13 31-1766)				
28 46 13 31-1783	EA	4x40 LCD Remote Fire Annunciator With Four Programmable Buttons, Red (Silent Knight 6860)	1,061.99	64.89
28 46 13 31-1784	EA	4x20 LCD Remote Fire Annunciator, Gray (Silent Knight 5860)	480.84	64.89
28 46 13 31-1785	EA	4x20 LCD Remote Fire Annunciator, Red (Silent Knight 5860R)	571.11	64.89
28 46 13 31-1786	EA	4x20 LCD Remote Fire Annunciator, Red (Silent Knight 6855)	378.52	64.89
28 46 13 31-1787	EA	LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) (Silent Knight 5865-3).....	484.23	64.89
28 46 13 31-1788	EA	LED Annunciators- Display Up To 30 LEDs (15 Red/15 Yellow) With Key Switches For Silence And Reset, And A System Trouble Led (Silent Knight 5865-4)	511.38	64.89
28 46 13 31-1789	EA	LED I/O Module With 40 Programmable LED Outputs And Eight Supervised Dry Contact Inputs (Silent Knight 5880)	399.23	48.67
28 46 13 31-1790	EA	Relay Interface. Provides 10 Form C Relays (Silent Knight 5883).....	242.52	32.45
28 46 13 31-1791	EA	Serial/Parallel Printer Interface Module For Printer Connection (Silent Knight 5824)	326.95	32.45
28 46 13 31-1792 SK Compatible Addressable Device (28 46 13 31-1766)				
28 46 13 31-1793	EA	Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature (Silent Knight SK-ACCLIMATE).....	174.51	48.67
28 46 13 31-1794	EA	Reflected Beam Smoke Detector Without Test Feature (Silent Knight SK-BEAM).....	970.27	48.67
28 46 13 31-1795	EA	Reflected Beam Smoke Detector With Test Feature (Silent Knight SK-BEAM-T)	1,099.30	48.67
28 46 13 31-1796	EA	Reflected Beam Smoke Detector, SK Protocol (Silent Knight OSI-RI-SK)	1,239.22	48.67
28 46 13 31-1797	EA	Supervised Control Module (Silent Knight SK-CONTROL)	172.81	48.67
28 46 13 31-1798	EA	Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6)	510.26	64.89
28 46 13 31-1799	EA	Photoelectric Duct Smoke Detector With Extended Air Speed Range (Silent Knight SK-DUCT)	277.47	48.67
28 46 13 31-1800	EA	Four Criteria Fire And Carbon Monoxide Detector (Silent Knight SK-FIRE-CO)	250.87	48.67
28 46 13 31-1801	EA	Four Criteria Fire And Carbon Monoxide Detector, White (Silent Knight SK-FIRE-CO-W).....	279.61	48.67
28 46 13 31-1802	EA	Fixed Thermal Detector (135°F) (Silent Knight SK-HEAT)	159.10	48.67
28 46 13 31-1803	EA	Fixed Thermal Detector (135°F), White (Silent Knight SK-HEAT-W).....	163.47	48.67
28 46 13 31-1804	EA	Fixed Rate Of Rise Detector (Silent Knight SK-HEAT-ROR).....	160.82	48.67
28 46 13 31-1805	EA	Fixed Rate Of Rise Detector, White (Silent Knight SK-HEAT-ROR-W)	163.47	48.67
28 46 13 31-1806	EA	Fixed High Temperature Heat Detector (190°F) (Silent Knight SK-HEAT-HT)	159.10	48.67
28 46 13 31-1807	EA	Fixed High Temperature Heat Detector (190°F), White (Silent Knight SK-HEAT-HT-W).....	163.47	48.67
28 46 13 31-1808	EA	Fault Isolator Module (Silent Knight SK-ISO).....	159.10	48.67
28 46 13 31-1809	EA	Mini Monitor Module (Silent Knight SK-MINIMON)	147.08	48.67

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1810	EA		Monitor Module (Silent Knight SK-MONITOR).....	155.97	48.67
28 46 13 31-1811	EA		Dual Input Monitor Module (Silent Knight SK-MONITOR-2)	200.28	48.67
28 46 13 31-1812	EA		10 Input Monitor Module (Silent Knight SK-MON-10)	574.77	64.89
28 46 13 31-1813	EA		Photoelectric Smoke Detector (Silent Knight SK-PHOTO)	162.53	48.67
28 46 13 31-1814	EA		Photoelectric Smoke Detector, White (Silent Knight SK-PHOTO-W).....	171.53	48.67
28 46 13 31-1815	EA		Photoelectric Detector With Remote Test Capability (Silent Knight SK-PHOTO-R)	165.09	48.67
28 46 13 31-1816	EA		Photoelectric Detector With Remote Test Capability, White (Silent Knight SK-PHOTO-R-W).....	174.22	48.67
28 46 13 31-1817	EA		Photoelectric Smoke Detector With Fixed Thermal Heat (135°F) (Silent Knight SK-PHOTO-T).....	169.39	48.67
28 46 13 31-1818	EA		Photoelectric Smoke Detector With Fixed Thermal Heat (135°F), White (Silent Knight SK-PHOTO-T-W).....	178.50	48.67
28 46 13 31-1819	EA		Multi Criteria Photoelectric Smoke Detector With Thermal 135°F Fixed Temperature, White (Silent Knight SK-PTIR-W).....	189.24	48.67
28 46 13 31-1820	EA		Addressable Single Action Pull Station (Silent Knight SK-PULL-SA).....	151.64	32.45
28 46 13 31-1821	EA		Addressable Dual Action Pull Station (Silent Knight SK-PULL-DA)	151.64	32.45
28 46 13 31-1822	EA		Addressable Relay Module (Silent Knight SK-RELAY)	140.36	32.45
28 46 13 31-1823	EA		Addressable Six Relay Control Module (Silent Knight SK-RELAY-6)	497.02	64.89
28 46 13 31-1824	EA		Addressable Dual Relay/Monitor Module (Silent Knight SK-RELAYMON-2)	311.77	48.67
28 46 13 31-1825	EA		Addressable Zone Interface Module (Silent Knight SK-ZONE).....	186.55	48.67
28 46 13 31-1826	EA		Six Zone Interface Module (Silent Knight SK-ZONE-6).....	597.94	64.89
28 46 13 31-1827			SK Bases (28 46 13 31-1766)		
28 46 13 31-1828	EA		6" Mounting Base (Silent Knight B210LP)	46.60	16.22
28 46 13 31-1829	EA		4" Flangeless Mounting Base (Silent Knight B501).....	49.46	16.22
28 46 13 31-1830	EA		Intelligent Sounder Base (Silent Knight B200S).....	94.19	16.22
28 46 13 31-1831	EA		Low-Frequency Intelligent Sounder Base (Silent Knight B200-LF).....	130.24	16.22
28 46 13 31-1832	EA		Relay Base (Silent Knight B224RB).....	77.75	16.22
28 46 13 31-1833	EA		Isolator Base (Silent Knight B224BI).....	76.87	16.22
28 46 13 31-1834			SD Compatible Addressable Device (28 46 13 31-1766)		
28 46 13 31-1835	EA		Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB).....	44.79	16.22
28 46 13 31-1836	EA		Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB).....	59.87	16.22
28 46 13 31-1837	EA		6" Addressable Relay Base (Silent Knight SD505-6RB).....	160.72	16.22
28 46 13 31-1838	EA		6" Addressable Sounder Base (Silent Knight SD505-6SB).....	166.37	16.22
28 46 13 31-1839	EA		Addressable Input Module (Silent Knight SD500-AIM).....	270.16	48.67
28 46 13 31-1840	EA		Addressable Notification Module (Silent Knight SD500-ANM).....	258.61	48.67
28 46 13 31-1841	EA		Addressable Relay Module (Silent Knight SD500-ARM).....	278.58	48.67
28 46 13 31-1842			System Expanders (28 46 13 31-1766)		
28 46 13 31-1843	EA		SLC Expander For IDP Or SK Devices (Silent Knight 6815)	569.51	64.89
28 46 13 31-1844	EA		SLC Expander For SD Devices (Silent Knight 5815XL).....	502.89	64.89
28 46 13 31-1845	EA		6A Power Supply With 6 Flexput Circuits And 2 Form C Relays (Silent Knight RPS-1000).....	885.39	32.45
28 46 13 31-1846	EA		6 AMP NAC Power Expander With 4 Power-Limited Output Ckts (Silent Knight 5496).....	627.15	97.34
28 46 13 31-1847			Miscellaneous Accessories (28 46 13 31-1766)		
28 46 13 31-1848	EA		Remote Battery Box Accessory Cabinet (Silent Knight RBB)	152.37	32.45
28 46 13 31-1849			Silent Knight Fire Alarm (28 46 13 31-0972)		
28 46 13 31-1850	EA		Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS).....	5,576.49	324.47
28 46 13 31-1851	EA		Supervised Remote Command Unit (Silent Knight EVS-RCU)	2,306.15	194.68
28 46 13 31-1852	EA		Voice Evacuation System (Silent Knight SKE-450)	2,768.55	129.79
28 46 13 31-1853	EA		Fire Fighters Telephone (Silent Knight SK-FFT)	2,293.87	129.79
28 46 13 31-1854	EA		Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL)	2,437.57	194.68
28 46 13 31-1855	EA		Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808).....	1,742.34	129.79
28 46 13 31-1856	EA		Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700).....	1,327.71	129.79
28 46 13 31-1857	EA		Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600)	1,142.44	129.79
28 46 13 31-1858	EA		Ionization Smoke Detector (Silent Knight SK-ION)	216.81	48.67
28 46 13 31-1859	EA		Sounder Base (Silent Knight B200SR)	123.56	16.22
28 46 13 31-1860	EA		Intelligent Sounder Base (Silent Knight B200S).....	130.96	16.22
28 46 13 31-1861	EA		Isolator Base (Silent Knight B224BI).....	102.65	16.22
28 46 13 31-1862	EA		Relay Base (Silent Knight B224RB).....	103.86	16.22
28 46 13 31-1863	EA		Analog Ionization Smoke Detector (Silent Knight SD505-AIS)	212.08	48.67
28 46 13 31-1864	EA		Addressable Heat Sensor (Silent Knight SD505-AHS)	193.97	48.67
28 46 13 31-1865	EA		Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS).....	198.30	48.67
28 46 13 31-1866	EA		6" Isolator Base (Silent Knight SD505-6IB).....	129.74	16.22
28 46 13 31-1867	EA		SLC Annunciator Driver Module (Silent Knight SD500-LED).....	860.26	97.34
28 46 13 31-1868	EA		Loop Isolation Module (Silent Knight SD500-LIM)	205.70	48.67
28 46 13 31-1869	EA		Addressable Mini Input Module (Silent Knight SD500-MIM)	162.18	32.45
28 46 13 31-1870	EA		Single Action Addressable Pull Station (Silent Knight SD500-PS).....	209.56	32.45
28 46 13 31-1871	EA		Dual Action Addressable Pull Station (Silent Knight SD500-PSDA)	200.07	32.45
28 46 13 31-1872	EA		Back Box (Silent Knight SK-PSSMBB)	91.63	25.96
28 46 13 31-1873	EA		Smoke Detector Module (Silent Knight SD500-SDM).....	230.14	48.67
28 46 13 31-1874	EA		Addressable Duct Housing (Silent Knight SD505-DUCT).....	334.34	48.67
28 46 13 31-1875	EA		Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR)	488.52	48.67
28 46 13 31-1876	EA		Addressable Duct Detector Test Switch (Silent Knight SD505-DTS).....	203.24	48.67
28 46 13 31-1877	EA		Intelligent Power Module (Silent Knight 5895XL).....	1,240.79	129.79



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1878	EA	Addressable Pull Station (Silent Knight SK-Pull-DA/SA)	200.07	32.45	
28 46 13 31-1879	EA	Digital Fire Communicator with Cabinet (Silent Knight SK-5104)	697.85	97.34	
28 46 13 31-1880	EA	Communicator (Silent Knight IPGSM-4G)	1,035.68	64.89	
28 46 13 31-1881	EA	Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208)	1,636.11	129.79	
28 46 13 31-1882	EA	10 Zone Expander (Silent Knight SK-5217)	458.39	32.45	
28 46 13 31-1883	EA	Remote Annunciator (Silent Knight SK-5235)	458.47	64.89	
28 46 13 31-1884	EA	Status Display Module (Silent Knight 5280)	132.63	32.45	
28 46 13 31-1885	EA	Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4)	929.73	129.79	
28 46 13 31-1886	EA	Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E)	948.02	129.79	
28 46 13 31-1887	EA	Dress Panel (Silent Knight SK-DP2/4)	175.71	32.45	
28 46 13 31-1888	EA	Class A Convertor (Silent Knight SK-CAC4)	458.43	48.67	
28 46 13 31-1889	EA	Transmitter Module (Silent Knight SK-4XTM)	242.01	48.67	
28 46 13 31-1890	EA	LED Interface Module (Silent Knight SK-4XLM)	223.03	48.67	
28 46 13 31-1891	EA	110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24)	228.53	32.45	
28 46 13 31-1892	EA	Remote Annunciator (Silent Knight SK-RZA4)	223.03	48.67	
28 46 13 31-1893	EA	Zone Relay Module (Silent Knight SK-4XZM)	239.63	48.67	
28 46 13 31-1894	EA	Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2)	803.92	129.79	
28 46 13 31-1895	EA	Manual Pull Station (single action) (Silent Knight PS-SATK)	110.81	32.45	
28 46 13 31-1896	EA	Manual Pull Station (dual action) (Silent Knight PS-DATK)	119.97	32.45	
28 46 13 31-1897	EA	Manual Pull Station (dual action) (Silent Knight PS-DA)	117.40	32.45	
28 46 13 31-1898	EA	Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH)	104.83	32.45	
28 46 13 31-1899	EA	Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB)	234.40	38.94	
28 46 13 31-1900	EA	6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495)	812.22	97.34	
28 46 13 31-1901	EA	9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499)	912.86	97.34	
28 46 13 31-1902	EA	Detector (Silent Knight IDP-PhotoR)	279.86	48.67	
28 46 13 31-1903	EA	Monitoring Module (Silent Knight IDP)	289.47	48.67	
28 46 13 31-1904	EA	I/O Input-Output Module (Silent Knight SK-2880)	737.35	32.45	
28 46 13 31-1905	EA	Remote Annunciator (Silent Knight RA-2000)	2,115.98	97.34	
28 46 13 31-1906	EA	Power Supply (Silent Knight 5195/96)	1,313.73	32.45	
28 46 13 31-1907	EA	8 Zone Expander (Silent Knight SK-5210)	1,025.54	32.45	
28 46 13 31-1908	EA	LCD Remote Annunciator (Silent Knight SK-5230)	435.32	64.89	
28 46 13 31-1909	EA	Ionization Smoke Detector (Silent Knight SK-ION)	216.81	48.67	
28 46 13 31-1910	EA	Addressable Relay Module (Silent Knight IDP-Relay)	241.44	48.67	
28 46 13 31-1911	EA	Telephone Line Monitor (Silent Knight SK-7150)	151.35	32.45	
28 46 13 31-1912	EA	Serial Driver Board (Silent Knight SK-2884)	278.15	32.45	
28 46 13 31-1913	EA	Smoke Detector Base (Silent Knight IDP-6AB)	80.48	16.22	
28 46 13 31-1914	EA	Mini Input Module (Silent Knight IDP-MINIMON)	208.99	32.45	
28 46 13 31-1915	EA	Status Display Module (Silent Knight SK-4180)	756.56	32.45	
28 46 13 31-1916	EA	8-Channel Digital Communicator (Silent Knight SK-1420)	449.15	32.45	
28 46 13 31-1917	EA	Serial Parallel Module (Silent Knight SK-4824)	410.72	32.45	
28 46 13 31-1918	EA	Power Supply (Silent Knight SK-5197 / SK-5198)	1,505.87	32.45	
28 46 13 31-1919	EA	4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204)	2,565.14	129.79	
28 46 13 31-1920	EA	Intelligent Ionization Smoke Detector (Silent Knight IDP-ION)	289.47	48.67	
28 46 13 31-1921	EA	Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo)	241.44	48.67	
28 46 13 31-1922	Alerton Fire Alarm (28 46 13 31)				
28 46 13 31-1923	EA	UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100)	616.72	9.73	
28 46 13 31-1924	Cooper Fire Alarm (28 46 13 31)				
28 46 13 31-1925	EA	Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R)	205.62	32.45	
28 46 13 31-1926	EA	Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001)	4,697.48	55.16	
28 46 13 31-1927	EA	Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002)	6,197.09	55.16	
28 46 13 31-1928	EA	Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001)	2,257.58	64.89	
28 46 13 31-1929	EA	Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002)	2,270.91	64.89	
28 46 13 31-1930	EA	Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007)	2,270.91	64.89	
28 46 13 31-1931	EA	Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001)	1,681.06	64.89	
28 46 13 31-1932	EA	Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003)	1,681.06	64.89	
28 46 13 31-1933	EA	Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004)	1,681.06	64.89	
28 46 13 31-1934	EA	Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005)	2,270.91	64.89	
28 46 13 31-1935	EA	Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006)	2,270.91	64.89	
28 46 13 31-1936	EA	Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Blackstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007)	2,270.91	64.89	
28 46 13 31-1937	EA	Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008)	2,270.91	64.89	
28 46 13 31-1938	EA	Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002)	2,270.91	64.89	
28 46 13 31-1939	EA	Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001)	2,615.82	64.89	
28 46 13 31-1940	EA	Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003)	2,429.20	64.89	
28 46 13 31-1941	EA	Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005)	2,429.20	64.89	

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1942	EA	Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006).....		2,429.20	64.89
28 46 13 31-1943		Light Engineered Displays Message Boards (28 46 13 31)			
28 46 13 31-1944	EA	Two Message Sign, Announcement And Evacuate (LED SP-2/MNS).....		968.84	38.94
28 46 13 31-1945	EA	Four Message Sign, Fire, Weather, Announcement, E Voltuate (LED SP-4)		854.16	38.94
28 46 13 31-1946		Safety Technology International Fire Alarm (28 46 13 31)			
28 46 13 31-1947		Enclosures (28 46 13 31-1946)			
28 46 13 31-1948	EA	6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF060604-O).....		152.47	19.47
28 46 13 31-1949	EA	6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF060604-W).....		198.09	19.47
28 46 13 31-1950	EA	8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080604-O).....		155.51	19.47
28 46 13 31-1951	EA	8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080604-W).....		199.10	19.47
28 46 13 31-1952	EA	8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080804-O).....		159.57	19.47
28 46 13 31-1953	EA	8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080804-W).....		229.51	19.47
28 46 13 31-1954	EA	10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF100806-O).....		166.66	19.47
28 46 13 31-1955	EA	10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF100806-W).....		228.50	19.47
28 46 13 31-1956	EA	12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF121006-O).....		178.83	19.47
28 46 13 31-1957	EA	12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF121006-W).....		247.76	19.47
28 46 13 31-1958	EA	14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF141206-O).....		212.28	19.47
28 46 13 31-1959	EA	14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141206-W).....		320.74	19.47
28 46 13 31-1960	EA	14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF141208-O).....		228.50	19.47
28 46 13 31-1961	EA	14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141208-W).....		403.86	19.47
28 46 13 31-1962	EA	16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF161408-O).....		242.69	19.47
28 46 13 31-1963	EA	16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF161408-W).....		416.03	19.47
28 46 13 31-1964	EA	18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF181610-O).....		288.30	19.47
28 46 13 31-1965	EA	18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF181610-W).....		427.18	19.47
28 46 13 31-1966	EA	20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF201610-O).....		416.03	19.47
28 46 13 31-1967	EA	20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF201610-W).....		616.73	19.47
28 46 13 31-1968	EA	6" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP060605-O).....		113.95	19.47
28 46 13 31-1969	EA	6" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP060605-T).....		124.09	19.47
28 46 13 31-1970	EA	8" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080605-O).....		118.51	19.47
28 46 13 31-1971	EA	8" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080605-T).....		127.13	19.47
28 46 13 31-1972	EA	8" Height x 8" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080805-O).....		122.57	19.47
28 46 13 31-1973	EA	8" Height x 8" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080805-T).....		132.70	19.47
28 46 13 31-1974	EA	10" Height x 8" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP100806-O).....		124.09	19.47
28 46 13 31-1975	EA	10" Height x 8" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP100806-T).....		144.87	19.47
28 46 13 31-1976	EA	10" Height x 8" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP100807-O).....		130.17	19.47
28 46 13 31-1977	EA	10" Height x 8" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP100807-T).....		148.92	19.47
28 46 13 31-1978	EA	10" Height x 10" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP101006-O).....		135.75	19.47
28 46 13 31-1979	EA	10" Height x 10" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP101006-T).....		151.46	19.47
28 46 13 31-1980	EA	12" Height x 10" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP121007-O).....		137.27	19.47
28 46 13 31-1981	EA	12" Height x 10" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP121007-T).....		156.53	19.47
28 46 13 31-1982	EA	14" Height x 12" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP141207-O).....		160.58	19.47
28 46 13 31-1983	EA	14" Height x 12" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP141207-T).....		199.10	19.47
28 46 13 31-1984	EA	16" Height x 14" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP161409-O).....		176.80	19.47
28 46 13 31-1985	EA	16" Height x 14" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP161409-T).....		237.62	19.47
28 46 13 31-1986	EA	18" Height x 16" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP181604-O).....		196.06	19.47
28 46 13 31-1987	EA	18" Height x 16" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP181604-T).....		254.85	19.47
28 46 13 31-1988	EA	18" Height x 16" Width x 11" Depth, Opaque, Polycarbonate Enclosure (STI EP181611-O).....		222.41	19.47
28 46 13 31-1989	EA	18" Height x 16" Width x 11" Depth, Tinted, Polycarbonate Enclosure (STI EP181611-T).....		298.44	19.47
28 46 13 31-1990	EA	20" Height x 16" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP201608-O).....		353.18	19.47
28 46 13 31-1991	EA	20" Height x 16" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP201608-T).....		369.40	19.47
28 46 13 31-1992	EA	24" Height x 24" Width x 10" Depth, Opaque, Polycarbonate Enclosure (STI EP242410-O).....		531.58	19.47
28 46 13 31-1993	EA	24" Height x 24" Width x 10" Depth, Tinted, Polycarbonate Enclosure (STI EP242410-T).....		615.72	19.47
28 46 13 31-1994		STI® Fire Alarm Devices (28 46 13 31-1946)			
28 46 13 31-1995	EA	Pull Station Polycarbonate Cover, Semi-Flush With Horn (STI-1100)		182.37	19.47
		Note: Includes 9 Volt DC self contained battery.			
28 46 13 31-1996	EA	Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130)		199.10	19.47
28 46 13 31-1997	EA	Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200).....		117.25	19.47
28 46 13 31-1998	EA	Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D).....		118.26	19.47
		Note: For surface mounted horn strobes.			
28 46 13 31-1999	EA	Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E).....		105.08	19.47
28 46 13 31-2000	EA	Strobe Damage Stopper And Open Back Box With Conduit Knockout (STI-1221D).....		118.26	19.47
		Note: For surface mounted strobe.			
28 46 13 31-2001	EA	Strobe Damage Stopper And Open Back Box, Semi-Flush (STI-1221E).....		95.20	19.47
28 46 13 31-2002	EA	NEMA 4X Rated Polycarbonate Dome Cover (STI-1229).....		224.44	19.47
28 46 13 31-2003	EA	Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230)		149.43	19.47
		Note: For surface mounted pull stations.			
28 46 13 31-2004	EA	Backplate For Polycarbonate Cover (STI-1280).....		70.97	19.47
28 46 13 31-2005	EA	Conduit Gasket For Polycarbonate Cover (STI-3003)		51.10	19.47
28 46 13 31-2006	EA	Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100).....		72.09	19.47
28 46 13 31-2007	EA	Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150).....		167.17	19.47
28 46 13 31-2008	EA	8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A).....		138.28	19.47
28 46 13 31-2009	EA	Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100).....		101.79	19.47
28 46 13 31-2010	EA	Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601).....		96.21	19.47

**Electronic Safety and Security****28****Life Safety****28 40****Fire Detection and Alarm****28 46****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2011 EA Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602)	92.92	19.47
28 46 13 31-2012 EA Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604)	96.21	19.47
28 46 13 31-2013 EA Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605)	92.92	19.47
28 46 13 31-2014 EA Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609)	96.21	19.47
28 46 13 31-2015 EA Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610)	92.92	19.47
28 46 13 31-2016 EA Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625)	183.39	19.47
28 46 13 31-2017 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705)	86.28	19.47
28 46 13 31-2018 EA Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R)	110.59	19.47
28 46 13 31-2019 EA Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706)	131.69	19.47
28 46 13 31-2020 EA Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707)	131.69	19.47
28 46 13 31-2021 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708)	95.20	19.47
28 46 13 31-2022 EA Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R)	95.20	19.47
28 46 13 31-2023 EA White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711)	86.28	19.47
28 46 13 31-2024 EA Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713)	95.20	19.47
28 46 13 31-2025 EA White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714)	95.20	19.47
28 46 13 31-2026 EA Yellow, High Threat, Push Button Station (STI SS-2201)	134.02	9.73
28 46 13 31-2027 EA Gasket Kit For STI Covers (STI SUB-121)	55.74	
28 46 13 31-2028 EA Universal Cover With Horn, Flush Mount, Momentary Button, Exit Label, Green Stopper Station (STI SS-2144XT)	237.62	19.47
28 46 13 31-2029 EA No Cover, Push And Turn-To-Reset Button, Evacuation Label, Yellow Stopper Station (STI SS-2201EV)	129.66	19.47
28 46 13 31-2030 EA No Cover, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2400EM)	129.66	19.47
28 46 13 31-2031 EA Universal Cover With Horn, Flush Mount, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2440EM)	237.62	19.47
28 46 13 31-2032 EA Flush Mounted, Weather Stopper II (STI-1250)	139.55	19.47
28 46 13 31-2033 EA Flush Mounted, Clear, Universal Stopper (STI-13000NC)	92.92	19.47
28 46 13 31-2034 EA Flush Mounted, Universal, Fire Label, Red, Stopper With Horn (STI-13020FR)	159.06	19.47
28 46 13 31-2035 EA Surface Mounted, Clear, Universal Stopper (STI-13200NC)	111.92	19.47
28 46 13 31-2036 EA Surface Mounted, Fire Label, Red, Universal Stopper (STI-13210FR)	122.06	19.47
28 46 13 31-2037 EA Surface Mounted, No Label, White, Universal Stopper (STI-13210NW)	132.70	19.47
28 46 13 31-2038 EA Surface Mounted, No Label, Yellow, Universal Stopper (STI-13210NY)	132.70	19.47
28 46 13 31-2039 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn (STI-13220FR)	177.81	19.47
28 46 13 31-2040 EA Surface Mounted, No Label, Yellow, Universal Stopper With Horn (STI-13220NY)	187.95	19.47
28 46 13 31-2041 EA Surface Mounted, Fire Label, Red, Universal Stopper With Horn And Relay (STI-13230FR)	223.43	19.47
28 46 13 31-2042 EA Stopper II, Weather Gasket (STI-3002)	50.04	19.47
28 46 13 31-2043 EA Large, Break Glass Stopper (STI-4100)	131.69	19.47
28 46 13 31-2044 EA Stopper "G" Standard Break Glass Cover (STI-6100)	127.13	19.47
28 46 13 31-2045 EA Clear, Polycarbonate Enclosure With Deep Back Box And Exterior Key Lock (STI-7510A)	122.82	19.47
28 46 13 31-2046 EA Polycarbonate Multi-Purpose Enclosure With Backplate And Key Lock (STI-7530)	326.82	19.47
28 46 13 31-2047 EA Heated, Metal, Protective Cabinet (STI-7560AH)	4,559.91	19.47
28 46 13 31-2048 EA Stainless Steel Guard (STI-9604SS)	88.61	19.47
28 46 13 31-2049 EA 5-3/4" Width x 4-1/2" Depth, Motion Detector Guard (STI-9621)	79.74	19.47
28 46 13 31-2050 System Sensor Fire Alarm (28 46 13 31)		
28 46 13 31-2051 Smoke Detectors (28 46 13 31-2050)		
28 46 13 31-2052 EA Beam Detector Heater Kit (System Sensor BEAMHK)	63.89	6.49
28 46 13 31-2053 EA Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR)	268.13	6.49
Note: Four used with long range kit.		
28 46 13 31-2054 EA Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK)	328.87	64.89
28 46 13 31-2055 EA Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK)	241.34	64.89
28 46 13 31-2056 EA Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK)	196.72	64.89
28 46 13 31-2057 EA Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B)	213.30	48.67
28 46 13 31-2058 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B)	180.58	48.67
28 46 13 31-2059 EA Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B)	225.79	48.67
28 46 13 31-2060 EA Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B)	217.31	48.67
28 46 13 31-2061 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B)	192.02	48.67
28 46 13 31-2062 EA Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B)	232.03	48.67
28 46 13 31-2063 EA Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B)	277.29	48.67
28 46 13 31-2064 EA Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151)	161.53	32.45
28 46 13 31-2065 EA Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T)	184.86	32.45
Note: Requires B100 series base.		
28 46 13 31-2066 EA Heavy-Duty Multi-Mount Kit (System Sensor 6500-MMK)	309.33	16.22
28 46 13 31-2067 EA Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy-Duty Multi-Mount Kit (System Sensor 6500-SMK)	105.96	16.22
28 46 13 31-2068 EA Four Wire, Low Profile, Plug In Detector (System Sensor 2D51)	205.16	48.67
28 46 13 31-2069 Duct Smoke Detectors (28 46 13 31-2050)		
28 46 13 31-2070 EA Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2)	397.11	48.67
28 46 13 31-2071 EA Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120)	393.67	48.67
28 46 13 31-2072 EA Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W)	516.49	55.16
28 46 13 31-2073 EA Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S)	259.40	32.45
28 46 13 31-2074 EA Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL)	70.38	9.73
28 46 13 31-2075 EA Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR)	222.40	25.96
28 46 13 31-2076 EA Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW)	361.22	32.45
28 46 13 31-2077 EA 1' Steel Sampling Tube (System Sensor DST1)	40.72	12.98
28 46 13 31-2078 EA 1.5' Steel Sampling Tube (System Sensor DST1.5)	44.61	12.98
28 46 13 31-2079 EA 3' Steel Sampling Tube (System Sensor DST3)	50.50	12.98
28 46 13 31-2080 EA 5' Steel Sampling Tube (System Sensor DST5)	69.02	16.22
28 46 13 31-2081 EA 10' Steel Sampling Tube (System Sensor DST10)	96.03	19.47

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2082	EA	1' Steel, Exhaust Tube Duct (System Sensor ETX).....	46.21	12.98	
28 46 13 31-2083	EA	Remote Test Station For Duct Smoke Detector (System Sensor RTS151).....	105.68	16.22	
28 46 13 31-2084	EA	Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	229.40		
28 46 13 31-2085	EA	Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	246.56		
28 46 13 31-2086 Heat Detectors (28 46 13 31-2080)					
28 46 13 31-2087	EA	Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P).....	134.80	48.67	
28 46 13 31-2088	EA	Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602).....	124.46	48.67	
28 46 13 31-2089	EA	Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621).....	144.82	48.67	
28 46 13 31-2090	EA	Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	144.82	48.67	
28 46 13 31-2091	EA	Dual Circuit, 135 Degree F, Fixed Temperature Heat Detector (System Sensor 5623).....	157.11	48.67	
28 46 13 31-2092	EA	Dual Circuit, 194 Degree F, Fixed Temperature Heat Detector (System Sensor 5624).....	157.11	48.67	
28 46 13 31-2093 Horns (28 46 13 31-2050)					
28 46 13 31-2094	EA	Red, Mini Horn (System Sensor MHR).....	133.67	48.67	
28 46 13 31-2095	EA	White, Mini Horn (System Sensor MHW).....	133.67	48.67	
28 46 13 31-2096	EA	White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL).....	135.44	48.67	
28 46 13 31-2097	EA	Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	170.16	55.16	
28 46 13 31-2098	EA	Red, Indoor, Wall Mounted, Horn (System Sensor HRL).....	135.44	48.67	
28 46 13 31-2099	EA	Red, Outdoor, Wall Mounted, Horn (System Sensor HRK).....	213.30	48.67	
28 46 13 31-2100	EA	White, Indoor, Wall Mounted, Compact Horn (System Sensor HGRL).....	136.01	48.67	
28 46 13 31-2101	EA	Red, Indoor, Wall Mounted, Compact Horn (System Sensor HGWL).....	136.01	48.67	
28 46 13 31-2102 Wall Mounted Horns/Strobes (28 46 13 31-2050)					
28 46 13 31-2103	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL).....	183.15	48.67	
28 46 13 31-2104	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	233.97	48.67	
28 46 13 31-2105	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	270.50	55.16	
28 46 13 31-2106	EA	Plain, Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	264.21	55.16	
28 46 13 31-2107	EA	Outdoor Back Box, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	276.51	55.16	
28 46 13 31-2108	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	269.64	55.16	
28 46 13 31-2109	EA	Plain, Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	256.20	55.16	
28 46 13 31-2110	EA	Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	222.91	48.67	
28 46 13 31-2111	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P).....	179.15	48.67	
28 46 13 31-2112	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL).....	183.15	48.67	
28 46 13 31-2113	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	235.64	48.67	
28 46 13 31-2114	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	261.92	55.16	
28 46 13 31-2115	EA	Plain, Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	264.21	55.16	
28 46 13 31-2116	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	233.97	48.67	
28 46 13 31-2117	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	278.22	55.16	
28 46 13 31-2118	EA	Plain, Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	256.20	55.16	
28 46 13 31-2119	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P).....	178.29	48.67	
28 46 13 31-2120	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL).....	219.19	48.67	
28 46 13 31-2121	EA	Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	277.52	48.67	
28 46 13 31-2122	EA	Outdoor Back Box, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	320.83	55.16	
28 46 13 31-2123	EA	Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	250.48	55.16	
28 46 13 31-2124	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL).....	219.19	48.67	
28 46 13 31-2125	EA	Outdoor Back Box, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4WHK).....	296.94	55.16	
28 46 13 31-2126	EA	Outdoor Back Box, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	264.78	55.16	
28 46 13 31-2127	EA	Red, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2RL-LF).....	268.96	48.67	
28 46 13 31-2128	EA	White, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2WL-LF).....	268.96	48.67	
28 46 13 31-2129	EA	Red, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GRL).....	182.58	48.67	
28 46 13 31-2130	EA	White, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GWL).....	182.58	48.67	



Electronic Safety and Security			28	28
Life Safety			28 40	
Fire Detection and Alarm			28 46	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2131 Ceiling Mounted Horns/Strobes (28 46 13 31-2050)					
28 46 13 31-2132	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL)	186.01	48.67	
28 46 13 31-2133	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH)	237.30	48.67	
28 46 13 31-2134	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK)	261.92	55.16	
28 46 13 31-2135	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK)	254.48	55.16	
28 46 13 31-2136	EA	Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P)	225.64	48.67	
28 46 13 31-2137	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL)	186.01	48.67	
28 46 13 31-2138	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH)	237.30	48.67	
28 46 13 31-2139	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK)	261.92	55.16	
28 46 13 31-2140	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P)	237.30	48.67	
28 46 13 31-2141	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK)	254.48	55.16	
28 46 13 31-2142	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P)	223.97	48.67	
28 46 13 31-2143	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL)	220.62	48.67	
28 46 13 31-2144	EA	Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH)	277.52	48.67	
28 46 13 31-2145	EA	White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL)	220.62	48.67	
28 46 13 31-2146 Wall Mounted Strobes (28 46 13 31-2050)					
28 46 13 31-2147	EA	White Strobe Expander Plate Back Box Skirt (System Sensor SEP-BBSW)	83.82	16.22	
28 46 13 31-2148	EA	White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW)	160.88	16.22	
28 46 13 31-2149	EA	Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL)	165.70	48.67	
28 46 13 31-2150	EA	Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH)	231.14	48.67	
28 46 13 31-2151	EA	Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK)	283.37	55.16	
28 46 13 31-2152	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK)	279.80	55.16	
28 46 13 31-2153	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P)	235.60	55.16	
28 46 13 31-2154	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R)	207.57	55.16	
28 46 13 31-2155	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P)	164.27	48.67	
28 46 13 31-2156	EA	White, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL)	165.13	48.67	
28 46 13 31-2157	EA	White, Amber Lens, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT)	178.57	48.67	
28 46 13 31-2158	EA	White, Clear Lens, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT)	212.31	48.67	
28 46 13 31-2159	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH)	222.31	48.67	
28 46 13 31-2160	EA	White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT)	220.64	48.67	
28 46 13 31-2161	EA	White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P)	220.64	48.67	
28 46 13 31-2162	EA	Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P)	239.04	55.16	
28 46 13 31-2163	EA	White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK)	236.46	55.16	
28 46 13 31-2164	EA	White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P)	238.46	55.16	
28 46 13 31-2165	EA	Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R)	238.62	55.16	
28 46 13 31-2166	EA	White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK)	234.17	55.16	
28 46 13 31-2167	EA	White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P)	235.32	55.16	
28 46 13 31-2168	EA	White, Plain, 12/24 Volt DC, Selectable (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P)	163.99	48.67	
28 46 13 31-2169	EA	Amber, Wall Strobe Lens Attachment (System Sensor LENS-A)	28.71	6.49	
28 46 13 31-2170	EA	Blue, Wall Strobe Lens Attachment (System Sensor LENS-B)	28.71	6.49	
28 46 13 31-2171	EA	Green, Wall Strobe Lens Attachment (System Sensor LENS-G)	28.71	6.49	
28 46 13 31-2172	EA	Red, Wall Strobe Lens Attachment (System Sensor LENS-R)	28.71	6.49	
28 46 13 31-2173	EA	Red, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGRL)	167.99	48.67	
28 46 13 31-2174	EA	White, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGWL)	164.84	48.67	
28 46 13 31-2175	EA	L-Series, Amber, Wall Strobe Lens Attachment (System Sensor LENS-A2, AC2)	28.71	6.49	

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2176	EA	L-Series, Blue, Wall Strobe Lens Attachment (System Sensor LENS-B2, BC2).....	28.71	6.49
28 46 13 31-2177	EA	L-Series, Green, Wall Strobe Lens Attachment (System Sensor LENS-G2, GC2).....	28.71	6.49
28 46 13 31-2178	EA	L-Series, Red, Wall Strobe Lens Attachment (System Sensor LENS-R2, RC2).....	28.71	6.49
28 46 13 31-2179	EA	Red, 8 Multi-tone, 12 VDC, 1575CD, Wall Mounted Strobe (Wheelock MT-121575W-FR).....	243.85	48.67
28 46 13 31-2180	EA	White, 8 Multi-tone, 12 VDC, 1575CD, No Lettering, Wall Mounted Strobe (Wheelock MT-121575W-NW).....	243.85	48.67
28 46 13 31-2181	EA	L-Series, White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-CLR-ALERT).....	240.18	55.16
28 46 13 31-2182 Ceiling Mounted Strobes (28 46 13 31-2050)				
28 46 13 31-2183	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL).....	168.85	48.67
28 46 13 31-2184	EA	Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH).....	234.71	48.67
28 46 13 31-2185	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK).....	283.37	55.16
28 46 13 31-2186	EA	Outdoor Back Box, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK).....	283.37	55.16
28 46 13 31-2187	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL).....	168.85	48.67
28 46 13 31-2188	EA	Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT).....	180.29	48.67
28 46 13 31-2189	EA	White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH).....	225.64	48.67
28 46 13 31-2190	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK).....	236.46	55.16
28 46 13 31-2191	EA	Outdoor Back Box, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK).....	234.17	55.16
28 46 13 31-2192	EA	Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	200.65	48.67
28 46 13 31-2193	EA	Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC).....	28.71	6.49
28 46 13 31-2194	EA	Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	28.71	6.49
28 46 13 31-2195	EA	Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	28.71	6.49
28 46 13 31-2196	EA	Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	28.71	6.49
28 46 13 31-2197 Wall Mounted Speakers (28 46 13 31-2050)				
28 46 13 31-2198	EA	24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	430.29	48.67
28 46 13 31-2199	EA	Red, Wall Mounted Speaker (System Sensor SPRL).....	142.53	48.67
28 46 13 31-2200	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	226.06	48.67
28 46 13 31-2201	EA	Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	189.27	55.16
28 46 13 31-2202	EA	Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	186.54	48.67
28 46 13 31-2203	EA	White, Wall Mounted Speaker (System Sensor SPWL).....	142.53	48.67
28 46 13 31-2204	EA	White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	237.89	55.16
28 46 13 31-2205	EA	White, High dB, Wall Mounted Speaker (System Sensor SPWV).....	160.15	48.67
28 46 13 31-2206 Ceiling Mounted Speakers (28 46 13 31-2050)				
28 46 13 31-2207	EA	Red, Ceiling Mounted Speaker (System Sensor SPCRL).....	139.39	48.67
28 46 13 31-2208	EA	Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	258.79	48.67
28 46 13 31-2209	EA	Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV).....	186.54	48.67
28 46 13 31-2210	EA	White, Ceiling Mounted Speaker (System Sensor SPCWL).....	141.96	48.67
28 46 13 31-2211	EA	White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	180.65	48.67
28 46 13 31-2212	EA	White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	239.04	55.16
28 46 13 31-2213 Wall Mounted Speakers/Strobes (28 46 13 31-2050)				
28 46 13 31-2214	EA	White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL).....	158.88	16.22
28 46 13 31-2215	EA	White Speaker Strobe Expander Plate Back Box Skirt (System Sensor SPSEP-BBSWL).....	80.39	16.22
28 46 13 31-2216	EA	Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL).....	228.92	48.67
28 46 13 31-2217	EA	Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	298.93	48.67
28 46 13 31-2218	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	402.90	55.16
28 46 13 31-2219	EA	Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	327.14	55.16
28 46 13 31-2220	EA	Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	279.65	55.16
28 46 13 31-2221	EA	Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P).....	226.34	48.67
28 46 13 31-2222	EA	Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	288.23	48.67
28 46 13 31-2223	EA	White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT).....	230.06	48.67
28 46 13 31-2224	EA	White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	331.14	55.16
28 46 13 31-2225	EA	White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL).....	228.92	48.67
28 46 13 31-2226	EA	White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	285.63	48.67

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2227	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	285.63	48.67
28 46 13 31-2228	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	342.58	55.16
28 46 13 31-2229	EA		White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	325.99	55.16
28 46 13 31-2230	EA		White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P).....	225.20	48.67
28 46 13 31-2231	EA		White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	275.63	48.67
28 46 13 31-2232	EA		White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	275.63	48.67
28 46 13 31-2233 Ceiling Mounted Speakers/Strobes (28 46 13 31-2050)					
28 46 13 31-2234	EA		Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRL).....	213.47	48.67
28 46 13 31-2235	EA		Red, Selectable Candela (135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRH).....	302.50	48.67
28 46 13 31-2236	EA		Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPSCRV).....	288.23	48.67
28 46 13 31-2237	EA		White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL).....	213.47	48.67
28 46 13 31-2238	EA		White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-CLR-ALERT).....	227.77	48.67
28 46 13 31-2239	EA		White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH).....	285.63	48.67
28 46 13 31-2240	EA		White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK).....	344.30	55.16
28 46 13 31-2241	EA		White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	285.63	48.67
28 46 13 31-2242	EA		White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	331.71	55.16
28 46 13 31-2243	EA		White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	342.58	55.16
28 46 13 31-2244	EA		White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P).....	213.47	48.67
28 46 13 31-2245	EA		White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV).....	275.63	48.67
28 46 13 31-2246	EA		White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH).....	285.63	48.67
28 46 13 31-2247	EA		White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P).....	275.63	48.67
28 46 13 31-2248	EA		High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH).....	285.39	48.67
28 46 13 31-2249 Electric Alarm Bells (28 46 13 31-2050)					
28 46 13 31-2250	EA		6" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	176.00	48.67
28 46 13 31-2251	EA		8" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-8).....	190.02	48.67
28 46 13 31-2252	EA		10" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-10).....	205.46	48.67
28 46 13 31-2253	EA		6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	192.32	49.32
28 46 13 31-2254	EA		8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	194.52	49.32
28 46 13 31-2255	EA		10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	208.40	49.32
28 46 13 31-2256 Device Bases (28 46 13 31-2050)					
28 46 13 31-2257	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S).....	135.71	16.22
28 46 13 31-2258	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR).....	131.42	16.22
28 46 13 31-2259	EA		Intelligent Isolator Base (System Sensor B224BI).....	108.25	16.22
28 46 13 31-2260	EA		Intelligent Relay Base (System Sensor B224RB).....	109.39	16.22
28 46 13 31-2261	EA		Flangeless, Intelligent Detector Base (System Sensor B501).....	68.15	16.22
28 46 13 31-2262	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, Ivory (System Sensor B200S-IV).....	135.71	16.22
28 46 13 31-2263	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-IV).....	131.42	16.22
28 46 13 31-2264	EA		Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR-LF).....	196.06	16.22
28 46 13 31-2265	EA		Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-LF-IV).....	196.06	16.22
28 46 13 31-2266	EA		Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-LF-WH).....	189.77	16.22
28 46 13 31-2267	EA		Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-WH).....	148.75	16.22
28 46 13 31-2268	EA		High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, White (System Sensor B200S-WH).....	128.84	16.22
28 46 13 31-2269	EA		Intelligent Isolator Base, Ivory (System Sensor B224BI-IV).....	108.25	16.22
28 46 13 31-2270	EA		Intelligent Isolator Base, White (System Sensor B224BI-WH).....	101.39	16.22
28 46 13 31-2271	EA		Intelligent Relay Base, Ivory (System Sensor B224RB-IV).....	109.39	16.22
28 46 13 31-2272	EA		Intelligent Relay Base, White (System Sensor B224RB-WH).....	102.82	16.22
28 46 13 31-2273	EA		Flangeless, Intelligent Detector Base, Black (System Sensor B501-BL).....	68.15	16.22
28 46 13 31-2274	EA		Flangeless, Intelligent Detector Base, Ivory (System Sensor B501-IV).....	68.15	16.22
28 46 13 31-2275	EA		Flangeless, Intelligent Detector Base, White (System Sensor B501-WHITE).....	60.71	16.22
28 46 13 31-2276	EA		Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base (System Sensor B200S-LF).....	199.50	16.22
28 46 13 31-2277	EA		Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, Ivory (System Sensor B200S-LF-IV).....	199.50	16.22

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MINOR
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UNIT COST UNIT COST

28 46 13 31-2278	EA	Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, White (System Sensor B200S-LF-WH)	192.06	16.22
28 46 13 31-2279	EA	6" Intelligent Flanged Mounting Base (System Sensor B300-6)	53.90	16.22
28 46 13 31-2280	EA	6" Intelligent Flanged Mounting Base, Ivory (System Sensor B300-6-IV)	61.05	16.22
28 46 13 31-2281	EA	Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP)	59.94	16.22
28 46 13 31-2282	EA	Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP)	119.75	19.47

28 46 13 31-2283 Boxes, Plates And Decals (28 46 13 31-2050)

28 46 13 31-2284	EA	120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K)	61.28	16.22
28 46 13 31-2285	EA	Red, Wall Mounted, Metal, Weatherproof Back Box (System Sensor MWBB)	92.29	16.22
28 46 13 31-2286	EA	White, Ceiling Mounted, Metal, Weatherproof Back Box (System Sensor MWBBCW)	100.53	16.22
28 46 13 31-2287	EA	White, Wall Mounted, Metal, Weatherproof Back Box (System Sensor MWBBW)	92.29	16.22
28 46 13 31-2288	EA	Red Retrofit Plate (System Sensor RFP)	42.58	9.73
28 46 13 31-2289	EA	White Retrofit Plate (System Sensor RFPW)	42.24	9.73
28 46 13 31-2290	EA	Red, Wall Mounted, Weatherproof Back Box (System Sensor SA-WBB)	77.99	16.22
28 46 13 31-2291	EA	Red, Ceiling Mounted, Weatherproof Back Box (System Sensor SA-WBBC)	87.83	16.22
28 46 13 31-2292	EA	Red, Ceiling Mounted, Surface Mounted, Back Box (System Sensor SBBCLR)	61.97	16.22
28 46 13 31-2293	EA	White, Ceiling Mounted, Surface Mounted, Back Box (System Sensor SBBCWL)	61.97	16.22
28 46 13 31-2294	EA	Red, Wall Mounted, Surface Mounted, Back Box (System Sensor SBBRL)	53.62	16.22
28 46 13 31-2295	EA	Red, Wall Mounted, Surface Mounted, Back Box For Speaker (System Sensor SBBSPRL)	59.91	16.22
28 46 13 31-2296	EA	White, Wall Mounted, Surface Mounted, Back Box For Speaker (System Sensor SBBSPWL)	59.91	16.22
28 46 13 31-2297	EA	White, Wall Mounted, Surface Mounted, Back Box (System Sensor SBBWL)	53.62	16.22
28 46 13 31-2298	EA	Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500)	59.11	16.22
28 46 13 31-2299	EA	Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600)	53.90	16.22
28 46 13 31-2300	EA	Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS)	19.52	6.49
28 46 13 31-2301	EA	Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R)	28.94	
28 46 13 31-2302	EA	Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC)	40.25	
28 46 13 31-2303	EA	White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W)	28.94	
28 46 13 31-2304	EA	White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC)	40.25	
28 46 13 31-2305	EA	Red, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2)	21.61	6.49
28 46 13 31-2306	EA	White, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2W)	21.61	6.49
28 46 13 31-2307	EA	Red, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2)	21.61	6.49
28 46 13 31-2308	EA	White, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2W)	21.61	6.49
28 46 13 31-2309	EA	Red, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGRL)	53.62	16.22
28 46 13 31-2310	EA	White, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGWL)	53.62	16.22
28 46 13 31-2311	EA	Red, AGENT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AG)	26.14	6.49
28 46 13 31-2312	EA	Red, ALERT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AL)	26.14	6.49
28 46 13 31-2313	EA	Red, EVAC Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-EV)	26.14	6.49
28 46 13 31-2314	EA	Red, FIRE Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-F)	26.14	6.49
28 46 13 31-2315	EA	White, AGENT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AG)	26.14	6.49
28 46 13 31-2316	EA	White, ALERT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AL)	26.14	6.49
28 46 13 31-2317	EA	White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-EV)	26.14	6.49
28 46 13 31-2318	EA	White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-F)	26.14	6.49
28 46 13 31-2319	EA	Red, Plain, L-Series Wall Mounted Bezel (System Sensor BZGR-P)	26.14	6.49
28 46 13 31-2320	EA	White, Plain, L-Series Wall Mounted Bezel (System Sensor BZGW-P)	26.14	6.49
28 46 13 31-2321	EA	Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG)	26.14	6.49
28 46 13 31-2322	EA	Red, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AL)	26.14	6.49
28 46 13 31-2323	EA	Red, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AG)	28.54	6.49
28 46 13 31-2324	EA	Red, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AL)	28.54	6.49
28 46 13 31-2325	EA	Red, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-EV)	28.54	6.49
28 46 13 31-2326	EA	Red, FIRE Marking, L-Series Ceiling Mounted Bezel, Pack Of 5 (System Sensor BZRC-F)	28.54	6.49
28 46 13 31-2327	EA	Red, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-P)	28.54	6.49
28 46 13 31-2328	EA	Red, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZR-EV)	26.14	6.49
28 46 13 31-2329	EA	Red, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZR-F)	26.14	6.49
28 46 13 31-2330	EA	Red, PLAIN Marking, L-Series Wall Mounted Bezel (System Sensor BZR-P)	26.14	6.49
28 46 13 31-2331	EA	Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG)	26.14	6.49
28 46 13 31-2332	EA	White, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AG)	26.14	6.49
28 46 13 31-2333	EA	White, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AL)	26.14	6.49
28 46 13 31-2334	EA	White, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AG)	28.54	6.49
28 46 13 31-2335	EA	White, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AL)	28.54	6.49
28 46 13 31-2336	EA	White, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-EV)	28.54	6.49
28 46 13 31-2337	EA	White, FIRE Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-F)	28.54	6.49
28 46 13 31-2338	EA	White, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-P)	28.54	6.49
28 46 13 31-2339	EA	White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-EV)	26.14	6.49
28 46 13 31-2340	EA	White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-F)	26.14	6.49
28 46 13 31-2341	EA	Replacement Dust Cover For Low Profile Detectors (System Sensor C58-227-01)	5.09	
28 46 13 31-2342	EA	Control Module Barrier (System Sensor CB500)	39.15	9.73
28 46 13 31-2343	EA	White Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300)	36.06	9.73
28 46 13 31-2344	EA	Black Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300-BL)	43.44	9.73
28 46 13 31-2345	EA	PTIR Color Kit, White (System Sensor CK-300-IR)	161.34	9.73
28 46 13 31-2346	EA	PTIR Color Kit, Black (System Sensor CK-300-IR-BL)	234.00	9.73
28 46 13 31-2347	EA	PTIR Color Kit, Ivory (System Sensor CK-300-IR-IV)	234.00	9.73
28 46 13 31-2348	EA	Accessory Flange Ring For B210LP Base (System Sensor F210)	29.60	9.73
28 46 13 31-2349	EA	Black Faceplate (System Sensor FP-BLACK-BP)	28.77	9.73
28 46 13 31-2350	EA	White Faceplate, 2 In/2 Out (System Sensor FP-WHITE-2-BP)	29.20	9.73



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28 46 13 31-2351	EA		White Faceplate (System Sensor FP-WHITE-BP).....	27.79	9.73
28 46 13 31-2352	EA		White, Back Box (System Sensor SMB500-WH).....	50.93	16.22
28 46 13 31-2353	EA		Accessory Flange Ring For B210LP Base, White (System Sensor TR300).....	20.13	6.49
28 46 13 31-2354	EA		Accessory Flange Ring For B210LP Base, Ivory (System Sensor TR300-IV).....	28.48	6.49
28 46 13 31-2355	EA		White Faceplate Swift (System Sensor FP-WHITE-SWIFT-BP).....	30.54	9.73
28 46 13 31-2356	EA		Red, ALERT Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-AL).....	26.14	6.49
28 46 13 31-2357	EA		Red, AGENT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AG).....	28.54	6.49
28 46 13 31-2358	EA		Red, ALERT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AL).....	28.54	6.49
28 46 13 31-2359	EA		Red, EVAC Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-EV).....	28.54	6.49
28 46 13 31-2360	EA		Red, FIRE Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-F).....	28.54	6.49
28 46 13 31-2361	EA		Red, Plain, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-P).....	28.54	6.49
28 46 13 31-2362	EA		Red, EVAC Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-EV).....	26.14	6.49
28 46 13 31-2363	EA		Red, FIRE Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-F).....	26.14	6.49
28 46 13 31-2364	EA		Red, Plain, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-P).....	26.14	6.49
28 46 13 31-2365	EA		L Series, 120 VAC Adapter Mounting Plate (System Sensor MP120KL).....	78.44	16.22
28 46 13 31-2366	EA		White, Amber Lens, Universal Expander Plate (System Sensor SEP-SPSWL-P).....	154.02	16.22
28 46 13 31-2367			Chimes (28 46 13 31-2050)		
28 46 13 31-2368	EA		Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL).....	164.44	48.67
28 46 13 31-2369	EA		White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL).....	169.99	48.67
28 46 13 31-2370			Chime/Strobes (28 46 13 31-2050)		
28 46 13 31-2371	EA		Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL).....	246.08	48.67
28 46 13 31-2372	EA		White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL).....	246.08	48.67
28 46 13 31-2373	EA		L-Series, Red, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSCRL).....	247.80	48.67
28 46 13 31-2374	EA		L-Series, White, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSCWL).....	247.80	48.67
28 46 13 31-2375			Carbon Monoxide Detectors (28 46 13 31-2050)		
28 46 13 31-2376	EA		Conventional Carbon Monoxide Detector (System Sensor CO1224).....	355.47	64.89
28 46 13 31-2377	EA		Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR).....	243.79	48.67
28 46 13 31-2378	EA		CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE).....	19.89	6.49
28 46 13 31-2379	EA		Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan (System Sensor FCO-951).....	363.93	48.67
28 46 13 31-2380	EA		12/24 VDC, Conventional Carbon Monoxide Detector With Sounder And Trouble Relay With Test Function, UL2075 Listed (System Sensor CO1224T).....	276.24	64.89
28 46 13 31-2381	EA		Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan, Ivory (System Sensor FCO-951-IV).....	376.51	48.67
28 46 13 31-2382			Switches (28 46 13 31-2050)		
28 46 13 31-2383	EA		SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1).....	221.25	25.96
28 46 13 31-2384	EA		Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2).....	247.00	25.96
28 46 13 31-2385	EA		SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1).....	221.25	25.96
28 46 13 31-2386	EA		Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2).....	247.00	25.96
28 46 13 31-2387	EA		Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2).....	230.41	25.96
28 46 13 31-2388	EA		Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2).....	215.53	25.96
28 46 13 31-2389			Low Frequency Sounders (28 46 13 31-2050)		
28 46 13 31-2390	EA		Red, Low Frequency Sounder (System Sensor HR-LF).....	227.31	48.67
28 46 13 31-2391	EA		White, Low Frequency Sounder (System Sensor HW-LF).....	227.31	48.67
28 46 13 31-2392	EA		Red, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCRL-LF).....	201.74	48.67
28 46 13 31-2393	EA		White, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCWL-LF).....	201.74	48.67
28 46 13 31-2394	EA		Red, Wall Mounted, Low-frequency Compact Sounder (System Sensor HGRL-LF).....	200.31	48.67
28 46 13 31-2395	EA		White, Wall Mounted, Low-frequency Compact Sounder (HGWL-LF).....	200.31	48.67
28 46 13 31-2396			Sync Modules (28 46 13 31-2050)		
28 46 13 31-2397	EA		Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R).....	176.44	32.45
28 46 13 31-2398	EA		White, 12/24 Volt DC, Sync Module (System Sensor MDL3W).....	173.58	32.45
28 46 13 31-2399			Relays (28 46 13 31-2050)		
28 46 13 31-2400	EA		Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E).....	100.20	25.96
28 46 13 31-2401	EA		SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T).....	64.60	16.22
28 46 13 31-2402	EA		4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E).....	186.91	16.22

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28 46 13 31-2403 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T).....	137.71	16.22
28 46 13 31-2404 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E).....	107.87	25.96
28 46 13 31-2405 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T).....	66.66	16.22
28 46 13 31-2406 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E).....	210.37	16.22
28 46 13 31-2407 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T)	157.45	16.22
28 46 13 31-2408 EA 18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1).....	56.25	16.22
28 46 13 31-2409 EA 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2).....	56.25	16.22
28 46 13 31-2410 EA Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3)	56.25	16.22
28 46 13 31-2411 Remote Annunciator (28 46 13 31-2050)		
28 46 13 31-2412 EA Remote Annunciator (System Sensor RA100Z)	133.38	48.67
28 46 13 31-2413 EA Remote LED Annunciator (System Sensor RA100ZA)	129.64	48.67
28 46 13 31-2414 EA Remote Annunciator With Piezo Alarm (System Sensor APA151)	161.24	48.67
28 46 13 31-2415 Remote Test Station (28 46 13 31-2050)		
28 46 13 31-2416 EA Remote Test Station With Key (System Sensor RTS151KEY)	207.75	48.67
28 46 13 31-2417 Fire Alarm Digital Cellular Communicator (28 46 13 31)		
28 46 13 31-2418 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS)	783.45	64.89
28 46 13 31-2419 Wheelock Fire Alarm (28 46 13 31)		
28 46 13 31-2420 Ceiling Mounted Chimes/Strobes (28 46 13 31-2419)		
28 46 13 31-2421 EA White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW)	271.92	48.67
28 46 13 31-2422 Wall Mounted Chimes/Strobes (28 46 13 31-2419)		
28 46 13 31-2423 EA Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70- 24MCW-FR)	271.92	48.67
28 46 13 31-2424 EA White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70- 24MCW-FW).....	271.92	48.67
28 46 13 31-2425 Ceiling Mounted Horns/Strobes (28 46 13 31-2419)		
28 46 13 31-2426 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC).....	177.61	48.67
28 46 13 31-2427 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC)	202.03	48.67
28 46 13 31-2428 Wall Mounted Horns/Strobes (28 46 13 31-2419)		
28 46 13 31-2429 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR).....	181.34	48.67
28 46 13 31-2430 EA Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4- 241575 Watt-FR)	287.29	48.67
28 46 13 31-2431 EA Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4- 24MCW-FR)	242.08	48.67
28 46 13 31-2432 EA White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4- 24MCW-FW).....	242.08	48.67
28 46 13 31-2433 EA Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt- FR).....	272.30	48.67
28 46 13 31-2434 EA Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR).....	202.62	48.67
28 46 13 31-2435 EA Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR)	200.42	48.67
28 46 13 31-2436 EA Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR).....	221.30	55.16
28 46 13 31-2437 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR)	180.47	48.67
28 46 13 31-2438 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW)	180.47	48.67
28 46 13 31-2439 EA White, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FW)	199.55	48.67
28 46 13 31-2440 EA Red, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR)	242.08	48.67
28 46 13 31-2441 EA White, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	242.08	48.67
28 46 13 31-2442 Ceiling Mounted Strobes (28 46 13 31-2419)		
28 46 13 31-2443 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR)	169.72	48.67
28 46 13 31-2444 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW)	169.72	48.67
28 46 13 31-2445 EA Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC).....	183.15	48.67
28 46 13 31-2446 EA White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC)	163.14	48.67
28 46 13 31-2447 EA White, 24 Volt DC, Amber Lens, Multi- Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, No Lettering (Wheelock RSSA-24MCC-NW)	181.12	48.67
28 46 13 31-2448 EA White, 24 Volt DC, Amber Lens, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, Red ALERT Lettering (Wheelock RSSA-24MCC-ALW)	182.66	48.67
28 46 13 31-2449 EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe With Fire Lettering (Wheelock RSS-24MCC-FW)	183.32	48.67
28 46 13 31-2450 EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Weatherproof Strobe With Fire Lettering (Wheelock RSSWP-2475C-FR).....	192.02	48.67
28 46 13 31-2451 Wall Mounted Strobes (28 46 13 31-2419)		
28 46 13 31-2452 EA Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR).....	255.69	48.67



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28 46 13 31-2453	EA	Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR)	206.13	48.67
28 46 13 31-2454	EA	Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR)	228.97	48.67
28 46 13 31-2455	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR)	167.96	48.67
28 46 13 31-2456	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW)	167.96	48.67
28 46 13 31-2457	EA	Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR)	179.37	48.67
28 46 13 31-2458	EA	Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)	187.52	55.16
		Note: Requires WPSBB-R.		
28 46 13 31-2459	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR)	164.23	48.67
28 46 13 31-2460	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW).....	164.23	48.67
28 46 13 31-2461	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCWH-NW).....	194.72	48.67
28 46 13 31-2462	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCW-NW)	169.94	48.67
28 46 13 31-2463	EA	Weatherproof, White, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FW).....	208.72	55.16
		Note: Requires WPSBB-R.		
28 46 13 31-2464	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Weatherproof Wall Mounted Strobe (Wheelock RSSWP-24MCWH-FW).....	205.75	48.67
28 46 13 31-2465 Ceiling Mounted Speakers/Strobes (28 46 13 31-2419)				
28 46 13 31-2466	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	206.13	48.67
28 46 13 31-2467	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	206.13	48.67
28 46 13 31-2468	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW).....	206.13	48.67
28 46 13 31-2469	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW)	208.32	48.67
28 46 13 31-2470	EA	White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	220.60	48.67
28 46 13 31-2471	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW)	237.71	48.67
28 46 13 31-2472	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FR)	237.71	48.67
28 46 13 31-2473	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FR)	210.07	48.67
28 46 13 31-2474	EA	White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Square, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-NW).....	230.63	48.67
28 46 13 31-2475	EA	Round, 2 Watt, 24 Volt DC, 15/30/75/95CD, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-NW).....	244.36	48.67
28 46 13 31-2476	EA	White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Ceiling Mounted, Speaker/Strobe (Wheelock ET70WP-2475C-FW).....	258.09	48.67
28 46 13 31-2477 Wall Mounted Speakers/Strobes (28 46 13 31-2419)				
28 46 13 31-2478	EA	Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR).....	315.62	48.67
28 46 13 31-2479	EA	White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW)	315.62	48.67
28 46 13 31-2480	EA	Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	220.60	48.67
28 46 13 31-2481	EA	White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	220.60	48.67
28 46 13 31-2482	EA	Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR)	206.13	48.67
28 46 13 31-2483	EA	White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW)	202.62	48.67
28 46 13 31-2484	EA	Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR)	220.60	48.67
28 46 13 31-2485	EA	White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW).....	220.60	48.67
28 46 13 31-2486	EA	Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR).....	312.28	48.67
28 46 13 31-2487	EA	Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR)	208.32	48.67
28 46 13 31-2488	EA	White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW).....	206.57	48.67
28 46 13 31-2489	EA	Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	304.79	48.67
28 46 13 31-2490	EA	White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	312.28	48.67
28 46 13 31-2491	EA	Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR).....	237.71	48.67
28 46 13 31-2492	EA	White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW).....	237.71	48.67
28 46 13 31-2493	EA	Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)	339.43	55.16
		Note: Requires weatherproof backbox (IOB).		
28 46 13 31-2494	EA	Interior, Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FR)	189.90	48.67
28 46 13 31-2495	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FW).....	183.32	48.67
28 46 13 31-2496	EA	White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Round, Wall Mounted Speaker/Strobe (Wheelock E60-24MCW-FW).....	244.36	48.67
28 46 13 31-2497	EA	Red, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR)	258.09	48.67
28 46 13 31-2498	EA	White, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	263.24	48.67
28 46 13 31-2499	EA	White, 8 Watt, 24 VDC, 15/30/75/110 Candela, No Lettering, Wall Mounted, Speaker/Strobe (Wheelock ET70-24MCW-NW)	271.82	48.67
28 46 13 31-2500	EA	Red, 8 Watts, Weatherproof, 185 Candela, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-24185W-FR).....	278.12	48.67
28 46 13 31-2501	EA	Red, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FR).....	274.11	48.67
		Note: Requires IOB		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2502	EA	White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FW) Note: Requires IOB		271.82	48.67
28 46 13 31-2503 Electric Alarm Bells (28 46 13 31-2419)					
28 46 13 31-2504	EA	6" Diameter, 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R)	200.86	48.67	
28 46 13 31-2505	EA	6" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R)	193.84	48.67	
28 46 13 31-2506	EA	10" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R)	240.78	48.67	
28 46 13 31-2507	EA	10" Diameter, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSX10-115-R)	1,861.43	55.16	
28 46 13 31-2508	EA	10" Diameter, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSXG10-115-R)	3,005.44	55.16	
28 46 13 31-2509	EA	10" Diameter, Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CVXG10-115-R)	3,401.14	55.16	
28 46 13 31-2510	EA	6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R)	161.16	48.67	
28 46 13 31-2511	EA	10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R)	216.33	48.67	
28 46 13 31-2512	EA	6", ADA, 12 Volt DC, Red, Motor Bell (Wheelock MB-G6-12-R)	163.80	48.67	
28 46 13 31-2513	EA	10", ADA, 12 Volt DC, Red, Indoor/Outdoor Motor Bell (Wheelock MB-G10-12-R)	214.33	48.67	
28 46 13 31-2514 Horns (28 46 13 31-2419)					
28 46 13 31-2515	EA	Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non-Sync Horn (Wheelock AH-24WP-R)	163.99	48.67	
28 46 13 31-2516	EA	Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR)	136.47	48.67	
28 46 13 31-2517	EA	White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW)	136.47	48.67	
28 46 13 31-2518	EA	Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNRC)	137.43	48.67	
28 46 13 31-2519	EA	White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNWC)	137.43	48.67	
28 46 13 31-2520	EA	Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R)	121.20	48.67	
28 46 13 31-2521	EA	White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W)	121.20	48.67	
28 46 13 31-2522	EA	Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R)	137.43	48.67	
28 46 13 31-2523	EA	Red, 24 Volt DC, Four Wire, Wall Mounted Horn (Wheelock HS-24-R)	162.56	48.67	
28 46 13 31-2524 Speakers (28 46 13 31-2419)					
28 46 13 31-2525	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R)	140.24	48.67	
28 46 13 31-2526	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W)	140.24	48.67	
28 46 13 31-2527	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R)	140.24	48.67	
28 46 13 31-2528	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W)	138.31	48.67	
28 46 13 31-2529	EA	Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R)	140.24	48.67	
28 46 13 31-2530	EA	White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W)	140.24	48.67	
28 46 13 31-2531	EA	Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R)	140.24	48.67	
28 46 13 31-2532	EA	White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W)	140.24	48.67	
28 46 13 31-2533	EA	Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R)	161.38	48.67	
28 46 13 31-2534	EA	White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W)	161.38	48.67	
28 46 13 31-2535	EA	White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W)	163.14	48.67	
28 46 13 31-2536	EA	Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R)	215.76	48.67	
28 46 13 31-2537	EA	Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R)	195.74	48.67	
28 46 13 31-2538	EA	Grey, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15S)	299.12	48.67	
28 46 13 31-2539	EA	Red, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15SR)	299.12	48.67	
28 46 13 31-2540	EA	Red, 1/8 To 8 Watts, Square, Surface Mounted, Vandal Resistant Speaker (Wheelock ET-1010-R)	215.76	48.67	
28 46 13 31-2541	EA	White, 8 Watts, Wall/Ceiling Mounted, Vandal Resistant Speaker (Wheelock ET-1010-W)	218.05	48.67	
28 46 13 31-2542	EA	Red, 1/8 To 8 Watts, Square, Flush Mounted, Vandal Resistant Speaker (Wheelock ET-1080-R)	195.74	48.67	
28 46 13 31-2543	EA	White, 8", 25/70 Volt, 15/30/75/95 Candela, Round, Ceiling Mounted, Speaker (Wheelock S8-24MCC-FW)	286.70	48.67	
28 46 13 31-2544	EA	White, 8", 25/70 Volt, Round, Ceiling Mounted, Speaker (Wheelock S8-70/25)	209.47	48.67	
28 46 13 31-2545 Sync Modules (28 46 13 31-2419)					
28 46 13 31-2546	EA	12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R)	194.86	32.45	
28 46 13 31-2547 Boxes, Plates And Rings (28 46 13 31-2419)					
28 46 13 31-2548	EA	4" Square, Red, Surface Back Box (Wheelock BB-R)	42.06	16.22	
28 46 13 31-2549	EA	Standard 4" Square Box (Wheelock BB-STD)	41.37	16.22	
28 46 13 31-2550	EA	Black, Back Box For UZC-256 (Wheelock BB-UZC)	249.67	32.45	
28 46 13 31-2551	EA	Red, Back Box For UZC-256 (Wheelock BB-UZC-R)	249.67	32.45	
28 46 13 31-2552	EA	9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP)	192.65	25.96	
28 46 13 31-2553	EA	Red, Extender Ring For E60 Series (Wheelock E60EXT-R)	21.58	6.49	
28 46 13 31-2554	EA	White, Extender Ring For E60 Series (Wheelock E60EXT-W)	21.58	6.49	
28 46 13 31-2555	EA	Red, Surface Mounted Back Box For E50 Speakers (Wheelock E50SB-R)	52.45	16.22	
28 46 13 31-2556	EA	White, Surface Mounted Back Box For E50 Speakers (Wheelock E50SB-W)	49.65	16.22	
28 46 13 31-2557	EA	Red, Surface Mounted Back Box For E50 Speaker Strobe (Wheelock E50SSB-R)	52.45	16.22	
28 46 13 31-2558	EA	White, Surface Mounted Back Box For E50 Speaker Strobe (Wheelock E50SSB-W)	52.45	16.22	
28 46 13 31-2559	EA	4" Square Back Box (Wheelock DBB-R)	43.85	16.22	
28 46 13 31-2560	EA	Red, Surface Back Box (Wheelock IOB-R)	50.61	16.22	
28 46 13 31-2561	EA	White, Surface, Back Box (Wheelock IOB-W)	50.61	16.22	
28 46 13 31-2562	EA	White, Indoor, Surface Extender (Wheelock ISP2-W)	20.66	6.49	
28 46 13 31-2563	EA	Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R)	27.14	6.49	
28 46 13 31-2564	EA	White, RS/RSS Strobe Trim Plate (Wheelock NATP-W)	27.14	6.49	
28 46 13 31-2565	EA	Red Retrofit Plate (Wheelock RP-R)	24.38	6.49	
28 46 13 31-2566	EA	4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4)	41.93	6.49	

**Electronic Safety and Security 28****Life Safety 28 40****Fire Detection and Alarm 28 46****28**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2567 EA Red, Surface Mounted, Back Box For Chimes, Speakers (Wheelock SBB-R)	52.89	16.22
28 46 13 31-2568 EA White, Surface Mounted, Back Box For Chimes, Speaker (Wheelock SBB-W)	53.51	16.22
28 46 13 31-2569 EA Red, Surface Mounted, Back Box For With RSSP (Wheelock SBL2-R)	56.75	16.22
28 46 13 31-2570 EA Red, Semi-Flush Plate (Wheelock SFB-R)	28.39	6.49
28 46 13 31-2571 EA White, Semi-Flush Plate (Wheelock SFB-W)	28.39	6.49
28 46 13 31-2572 EA Red, Shallow Surface Mounted, Back Box (Wheelock SHBB-R)	46.79	16.22
28 46 13 31-2573 EA White, Shallow Surface Mounted, Back Box (Wheelock SHBB-W)	46.79	16.22
28 46 13 31-2574 EA Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R)	30.18	6.49
28 46 13 31-2575 EA Red, Weather Resistant Back Box (Wheelock WBB-R)	52.10	16.22
28 46 13 31-2576 EA Silver, Weather Resistant Back Box (Wheelock WBB-S)	52.10	16.22
28 46 13 31-2577 EA White, Weather Resistant Back Box (Wheelock WBB-W)	52.10	16.22
28 46 13 31-2578 EA Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R)	36.84	6.49
28 46 13 31-2579 EA White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W)	36.84	6.49
28 46 13 31-2580 EA Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFP-A)	36.84	6.49
28 46 13 31-2581 EA White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFP-A-W)	36.84	6.49
28 46 13 31-2582 EA Gasket Kit For Rear Wiring To Outdoor Back Box (Wheelock WP-KIT)	25.51	6.49
28 46 13 31-2583 EA Weather Resistant Back Box For ASWP (Wheelock WPBB-R)	63.57	16.22
28 46 13 31-2584 EA Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R)	58.54	16.22
28 46 13 31-2585 EA Red Plate For RSS (Wheelock RSSCP-R)	20.66	6.49
28 46 13 31-2586 EA White Plate For RSS (Wheelock RSSCP-W)	20.66	6.49
28 46 13 31-2587 EA Red Fire Plate For RSS (Wheelock RSSCPW-FR)	21.58	6.49
28 46 13 31-2588 EA White Fire Plate For RSS (Wheelock RSSCPW-FW)	21.58	6.49
28 46 13 31-2589 EA Red, Indoor, Surface Extender (Wheelock ISP2-R)	21.05	6.49
28 46 13 31-2590 EA Red, 24 Volt DC, 135/185 Candela, Wall Mounted Strobe Plate (Wheelock RSSP-24MCHW-FR)	150.28	6.49
28 46 13 31-2591 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-ALW)	134.83	6.49
28 46 13 31-2592 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, No Lettering, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-NW)	132.54	6.49
28 46 13 31-2593 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, ALERT Lettering, Wall Mounted Strobe Plate (Wheelock RSSPA-24MCW-ALW)	134.83	6.49
28 46 13 31-2594 EA Red, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-R)	23.68	6.49
28 46 13 31-2595 EA White, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-W)	22.99	6.49
28 46 13 31-2596 EA Red, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-R)	24.19	6.49
28 46 13 31-2597 EA White, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-W)	24.19	6.49
28 46 13 31-2598 EA White, Fire Lettered, Grill Plate For E50 Speaker/Strobe (Wheelock ECHSG50-FW)	22.99	6.49
28 46 13 31-2599 EA Red, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FR)	24.08	6.49
28 46 13 31-2600 EA White, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FW)	24.08	6.49
28 46 13 31-2601 EA Red, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-R)	22.99	6.49
28 46 13 31-2602 EA White, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-W)	22.99	6.49
28 46 13 31-2603 EA Red, Surface Mounted, Extender Ring (Wheelock SER-R)	31.69	6.49
28 46 13 31-2604 EA White, Surface Mounted, Extender Ring (Wheelock SER-W)	32.03	6.49
28 46 13 31-2605 EA Red, Semi-Flush, Plate (Wheelock SFP-R)	25.51	6.49
28 46 13 31-2606 EA Silver, Semi-Flush, Plate (Wheelock SFP-S)	24.19	6.49
28 46 13 31-2607 EA White, Semi-Flush, Plate (Wheelock SFP-W)	25.51	6.49
28 46 13 31-2608 EA Red, Weather Resistant Back Box For ASWP (Wheelock WPBB-R)	63.57	16.22
28 46 13 31-2609 EA Red, Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R)	58.54	16.22
28 46 13 31-2610 EA White, Weather Resistant Back Box For RSSWP Series (Wheelock WPSBB-W)	58.54	16.22
28 46 13 31-2611 Manual Pull Station (28 46 13 31-2419)		
28 46 13 31-2612 EA SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100)	142.23	32.45
28 46 13 31-2613 EA SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200)	142.23	32.45
28 46 13 31-2614 EA Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X)	1,232.76	32.45
28 46 13 31-2615 Fire Alarm Terminal Cabinets (28 46 13 31)		
28 46 13 31-2616 EA 18 Point Lockable Fire Alarm Terminal Cabinet	265.17	65.04
28 46 13 31-2617 EA 32 Point Lockable Fire Alarm Terminal Cabinet	346.24	65.04
28 46 13 31-2618 EA 64 Point Lockable Fire Alarm Terminal Cabinet	508.36	65.04
28 46 13 31-2619 EA 128 Point Lockable Fire Alarm Terminal Cabinet	670.44	65.04
28 46 13 31-2620 Test And Certification Of Fire Alarm System To Tie In To Existing Systems (28 46 13 31)		
28 46 13 31-2621 DAY Test And Certification Of Fire Alarm System To Tie Into Existing Systems	1,031.11	
28 46 13 31-2622 HR Test And Certification Of Fire Alarm System To Tie In To Existing Systems	322.22	
28 46 13 31-2623 Programming Of Existing Fire Alarm System (28 46 13 31)		
28 46 13 31-2624 HR Fire Alarm Technician For Programming Of Existing Fire Alarm System	257.78	
28 46 13 31-2625 Removal And Reinstallation Of Smoke Detector (28 46 13 31)		
Note: Includes storage, cleaning and supply materials.		
28 46 13 31-2626 EA Removal And Reinstallation Of Ceiling Mounted Smoke Detector	181.70	
28 46 13 31-2627 EA Removal And Reinstallation Of Wall Mounted Smoke Detector	146.01	
28 46 13 31-2628 Kidde Fire Safety Equipment (28 46 13 31)		
28 46 13 31-2629 Smoke Detectors (28 46 13 31-2628)		

28 Electronic Safety and Security**28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2630	EA	Combination Smoke And Carbon Monoxide Detector, Intelligent Sensor, 120 Volt Hardwired, With 10 Year Sealed Battery Back-up (Kidde P4010ACS-CO)	168.12	48.67	
28 46 13 31-2631	EA	Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With 10 Year Sealed Battery Back-up (Kidde i12010SCO)	148.16	48.67	
28 46 13 31-2632	EA	Combination Smoke And Carbon Monoxide Detector, With 10 Year Sealed Battery (Kidde P3010K-CO)	137.16	48.67	
28 46 13 31-2633 Potter Fire Alarm (28 46 13 31)					
28 46 13 31-2634 Electric Alarm Bells (28 46 13 31-2633)					
28 46 13 31-2635	EA	6" Alarm Bell, 12 Volt DC (Potter MBA-6-12)	137.42	48.67	
28 46 13 31-2636	EA	8" Alarm Bell, 12 Volt DC (Potter MBA-8-12)	150.07	48.67	
28 46 13 31-2637	EA	10" Alarm Bell, 12 Volt DC (Potter MBA-10-12)	156.40	48.67	
28 46 13 31-2638	EA	6" Alarm Bell, 24 Volt DC (Potter MBA-6-24)	137.42	48.67	
28 46 13 31-2639	EA	8" Alarm Bell, 24 Volt DC (Potter MBA-8-24)	150.07	48.67	
28 46 13 31-2640	EA	10" Alarm Bell, 24 Volt DC (Potter MBA-10-24)	156.40	48.67	
28 46 13 31-2641	EA	6" Alarm Bell, 24 Volt AC (Potter PBA246)	148.16	48.67	
28 46 13 31-2642	EA	8" Alarm Bell, 24 Volt AC (Potter PBA248)	154.23	48.67	
28 46 13 31-2643	EA	10" Alarm Bell, 24 Volt AC (Potter PBA2410)	190.02	48.67	
28 46 13 31-2644	EA	6" Alarm Bell, 120 Volt AC (Potter PBA1206)	139.24	48.67	
28 46 13 31-2645	EA	8" Alarm Bell, 120 Volt AC (Potter PBA1208)	154.23	48.67	
28 46 13 31-2646	EA	10" Alarm Bell, 120 Volt AC (Potter PBA12010)	166.77	48.67	
28 46 13 31-2647 Manual Pull Station (28 46 13 31-2633)					
28 46 13 31-2648	EA	SPST, Single Action, Manual Pull Station (Potter P32-1T)	100.77	32.45	
28 46 13 31-2649	EA	DPST, Single Action, Manual Pull Station (Potter RMS-2T)	106.51	32.45	
28 46 13 31-2650	EA	DPST, Single Action, Manual Pull Station (Potter RMS-6T)	171.20	32.45	
28 46 13 31-2651	EA	DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL)	110.09	32.45	
28 46 13 31-2652	EA	SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP)	104.02	32.45	
28 46 13 31-2653	EA	SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP)	191.43	32.45	
28 46 13 31-2654	EA	SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP)	239.68	32.45	
28 46 31 Fire-Alarm Initiating Devices (28 46)					
28 46 31 11 Heat-Sensing Fire Detectors (28 46 31)					
28 46 31 11-0001 Protectowire Fire Alarm (28 46 31 11)					
28 46 31 11-0002 Linear Heat Detector Cable (28 46 31 11-0001)					
28 46 31 11-0003	LF	Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC)	5.99		
28 46 31 11-0004	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M)	6.49		
28 46 31 11-0005	LF	High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR)	6.49		
28 46 31 11-0006	LF	High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M)	6.99		
28 46 31 11-0007	LF	Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT)	7.61		
28 46 31 11-0008	LF	Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M)	8.11		
28 46 31 11-0009	EA	Flexible Lead Connector For Linear Heat Detector (Protectowire PFL)	75.42		
28 46 31 11-0010	EA	Splicing Connector For Linear Heat Detector (Protectowire PWSC)	29.72		
28 46 31 11-0011	EA	Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W)	9.99		
28 46 31 11-0012	EA	Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2)	9.99		
28 46 31 11-0013	EA	Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO)	11.11		
28 46 31 11-0014	EA	Beam Clamp For Linear Heat Detector (Protectowire BC-2)	17.31		
28 46 31 11-0015	EA	Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P)	17.98		
28 46 31 11-0016	EA	Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A)	1.70		
28 46 31 11-0017	EA	Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B)	2.32		
28 46 31 11-0018	EA	Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C)	10.18		
28 46 41 Fire-Alarm Notification Appliances (28 46)					
28 46 41 11 Audible Fire-Alarm Notification Appliances (28 46 41)					
See CSI section 28 46 13 31-0000 for fire alarm speakers.					
28 46 41 31 Combination Fire-Alarm Notification Appliances (28 46 41)					
See CSI section 28 46 13 31-0000 for fire alarm horns and strobes.					
28 47 Mass Notification (28 40)					
28 47 15 Mass Notification Control Panels (28 47)					
28 47 15 00-0001 Central Station Controls (28 47 15)					
28 47 15 00-0002	EA	Desktop 18 Function Base Station Control/Encoder (Whelen E747)	984.98		
28 47 15 00-0003	EA	Desktop 35 Function Base Station Control/Encoder (Whelen E969)	1,601.22		
28 47 15 00-0004	EA	Desktop Central Station Control Encoder/Decoder (Whelen E2010)	4,795.26	64.89	
28 47 15 00-0005	EA	Siren Status Printer And Cable Option For E2010 (Whelen E2010P)	1,464.53	32.45	
28 47 15 00-0006	EA	Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R)	5,591.55	129.79	
28 47 15 00-0007	EA	Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK)	814.70	32.45	
28 47 15 00-0008	EA	Option To Convert Activation Controls To FSK Format (Whelen FSKCEO)	873.94	32.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 Notification Devices and Methods (28 47)		
28 47 17 17 Notification Appliances and Methods Public Methods (28 47 17)		
28 47 17 17-0001 Voice Capable Omni-Directional Speakers (28 47 17 17)		
28 47 17 17-0002 EA 1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	13,836.24	828.38
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0003 EA 2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	16,891.39	864.39
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0004 EA 3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A).....	19,908.74	900.40
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0005 EA 4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A).....	22,926.09	936.42
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0006 EA 5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A).....	26,019.03	972.43
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0007 EA 6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A).....	31,191.34	1,008.45
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0008 EA 7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A).....	34,246.49	1,044.47
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0009 EA 8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A).....	37,919.15	1,080.48
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0010 EA 9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A).....	40,936.48	1,116.50
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0011 EA 10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A).....	43,991.63	1,152.52
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0012 EA 3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003).....	30,057.15	1,008.45
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0013 EA 4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004).....	32,015.92	1,044.47
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0014 EA One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	544.29	32.45
28 47 17 17-0015 EA VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	2,232.45	32.45
28 47 17 17-0016 EA UHF Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NU).....	2,232.45	32.45
28 47 17 17-0017 EA UHF Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WU).....	2,018.22	32.45
28 47 17 17-0018 EA VHF High-Band Wide Band, One-Way Control, 10 Digit DTMF (Whelen D2030WV).....	1,955.21	32.45
28 47 17 17-0019 EA Two-Tone Sequential Option (Whelen WPSTT).....	503.10	32.45
28 47 17 17-0020 EA Full Function Auxiliary/Status Board For Contact Closure Activation (Two Way) (Whelen AUXCS).....	643.83	32.45
28 47 17 17-0021 EA Landline, 10 Digit DTMF (Whelen C2030LL).....	669.00	32.45
28 47 17 17-0022 EA VHF High-Band Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NV).....	3,179.41	32.45
28 47 17 17-0023 EA UHF Narrow-Band, Two-Way Control, 10 Digit DTMF (Whelen C2030NU).....	2,446.69	32.45
28 47 17 17-0024 EA UHF Wide-Band, 10 Digit DTMF (Whelen C2030WU).....	2,446.69	32.45
28 47 17 17-0025 EA VHF High-Wide Band, 10 Digit DTMF (Whelen C2030WV).....	2,446.69	32.45
28 47 17 17-0026 EA Option To Convert WPS Activation Controls To FSK Format (Whelen FSKXMOD).....	873.94	32.45
28 47 17 17-0027 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	606.42	32.45
28 47 17 17-0028 EA Paging Interface Whelen Tones With Existing In-Plant Systems (Whelen PGINT).....	413.86	32.45
28 47 17 17-0029 EA Intrusion Alarm (Whelen INTRUWPS).....	314.31	32.45
28 47 17 17-0030 EA Custom Pre-Recorded Messages (One Time Set-Up Charge Per Message) (Whelen MSGPROG).....	218.53	
28 47 17 17-0031 EA Whelen Library Messages (Whelen MSGPROGL).....	43.76	
28 47 17 17-0032 EA Noise Cancelling Microphone Includes Local Microphone Input Harness (Whelen WPSNCMIC).....	170.72	32.45
28 47 17 17-0033 EA One Pair Of Whelen Approved Batteries (Whelen WPSBATT).....	1,145.83	48.67
28 47 17 17-0034 EA WPS And OA Series, Rooftop Mounted (Whelen RTM).....	10,844.11	792.36
28 47 17 17-0035 EA Two 80 Watt Panels, Solar Power System (Whelen SBC280).....	4,510.27	194.68
Note: Includes mounting bracket and regulator.		
28 47 17 17-0036 EA Amber, 6 LED Lights For The Base Of WPS Series (Whelen VALERTA).....	2,290.11	48.67
28 47 17 17-0037 EA Blue, 6 LED Lights For The Base Of WPS Series (Whelen VALERTB).....	2,290.11	48.67
28 47 17 17-0038 EA Clear, 6 LED Lights For The Base Of WPS Series (Whelen VALERTC).....	2,290.11	48.67
28 47 17 17-0039 EA Green, 6 LED Lights For The Base Of WPS Series (Whelen VALERTG).....	2,290.11	48.67
28 47 17 17-0040 EA Red, 6 LED Lights For The Base Of WPS Series Products (Whelen VALERTR).....	2,290.11	48.67
28 47 17 17-0041 EA Amber, 24 Volt DC, LED, Beacon (Whelen L31HAF4).....	815.87	48.67
28 47 17 17-0042 EA Blue, 24 Volt DC, LED, Beacon (Whelen L31HBF4).....	815.87	48.67
28 47 17 17-0043 EA Red, 24 Volt DC, LED, Beacon (Whelen L31HFR4).....	815.87	48.67
28 47 17 17-0044 EA Amber, 24 Volt DC, Strobe (Whelen ISB24A).....	638.52	48.67
28 47 17 17-0045 EA Blue, 24 Volt DC, Strobe (Whelen ISB24B).....	638.52	48.67
28 47 17 17-0046 EA Clear, 24 Volt DC, Strobe (Whelen ISB24C).....	638.52	48.67
28 47 17 17-0047 EA Green, 24 Volt DC, Strobe (Whelen ISB24G).....	638.52	48.67
28 47 17 17-0048 EA Red, 24 Volt DC, Strobe (Whelen ISB24R).....	638.52	48.67
28 47 17 17-0049 EA Strobe/LED Controller With Mounting Plate, Hardware And Harnessing For ISB24 (Whelen SCWPS).....	887.81	32.45
28 47 17 17-0050 EA Strobe Controller (Whelen STCTRL).....	674.72	32.45
28 47 17 17-0051 EA LED Controller (Whelen LEDCTRL).....	674.72	32.45
28 47 17 17-0052 EA Speaker Driver Handle/Plate Assembly Only (Less Speaker Driver) (Whelen EZ-PULL).....	430.59	48.67
28 47 17 17-0053 EA Siren Diagnostic and Programming Software In CD Format (Whelen SDPTS).....	570.79	
28 47 17 17-0054 EA 400 Watt Speaker Driver (Whelen SPKDRV).....	935.59	32.45
28 47 17 17-0055 EA Cabinet Window LED Status Indicator (Whelen STATUS).....	469.92	32.45
28 47 17 17-0056 EA Noise Cancelling Microphone Option For Encoder (Whelen WPSMIC).....	170.72	32.45
28 47 17 17-0057 EA Notifier/Whelen Interface Board (Whelen NAUXCS).....	925.29	32.45
28 47 17 17-0058 Tone Only, Omni-Alert Sirens (28 47 17 17)		
28 47 17 17-0059 EA One Cell, Tone Only, Omni-Alert Siren (Whelen OA1).....	11,184.37	792.36
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0060 EA Two Cell, Tone Only, Omni-Alert Siren (Whelen OA2).....	13,962.26	828.38
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0061 EA Three Cell, Tone Only, Omni-Alert Siren (Whelen OA3).....	16,714.96	864.39
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0062 EA Four Cell, Tone Only, Omni-Alert Siren (Whelen OA4).....	19,530.67	900.40
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0063 EA One Way Controls, Auxiliary Board For Contact Closure Activation (Whelen OAUXIN).....	319.45	32.45
28 47 17 17-0064 EA One Way Landline Activation, 10 Digit DTMF (Whelen OD2030LL).....	544.29	32.45
28 47 17 17-0065 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OD230NV).....	2,232.45	32.45
28 47 17 17-0066 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OD230NU).....	2,232.45	32.45
28 47 17 17-0067 EA UHF Wide-Band, 10 Digit DTMF (Whelen OD230WU).....	2,018.22	32.45
28 47 17 17-0068 EA VHF High-Wide Band, 10 Digit DTMF (Whelen OD230WV).....	1,955.21	32.45
28 47 17 17-0069 EA One-Way Control Two-Tone Sequential Option (Whelen OTT).....	439.03	32.45
28 47 17 17-0070 EA Two Way Controls, Contact Closure Activation Board (Whelen OAUXCS).....	702.56	32.45
28 47 17 17-0071 EA Two Way Landline Activation (Whelen OC2030LL).....	730.28	32.45
28 47 17 17-0072 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen OC230NV).....	2,446.69	32.45
28 47 17 17-0073 EA UHF Narrow-Band, 10 Digit DTMF (Whelen OC230NU).....	2,446.69	32.45
28 47 17 17-0074 EA UHF, 10 Digit DTMF (Whelen OC230WU).....	2,446.69	32.45
28 47 17 17-0075 EA VHF High Band, 10 Digit DTMF (Whelen OC230WV).....	2,446.69	32.45
28 47 17 17-0076 EA Converts The Omni-Alert Siren Activation Controls To FSK Format (Whelen OFSKXMOD).....	873.94	32.45
28 47 17 17-0077 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen OPGINT).....	413.86	32.45
28 47 17 17-0078 EA Cabinet Window LED Status Indicator (Whelen OSTATUS).....	469.92	32.45
28 47 17 17-0079 EA Intrusion Alarm (Whelen OINTRU).....	252.53	32.45
28 47 17 17-0080 EA 80 Watt Solar Power Option (Whelen OSBC280).....	4,510.27	194.68
28 47 17 17-0081 EA One Pair Of Whelen Approved Batteries For Omniaalert (Whelen BSETO).....	953.16	48.67
28 47 17 17-0082 Tone-Only Rotating Directional Speakers (28 47 17 17)		
28 47 17 17-0083 EA 3 Cells, 127 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR3).....	23,178.13	936.42
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0084 EA 4 Cells, 129 dB, Tone-Only Rotating Directional Speaker (Whelen VORTEXR4).....	24,582.39	972.43
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0085 EA Limited Function Auxiliary Board For Contact Closure Activation (Whelen VAUXIN).....	296.01	32.45
28 47 17 17-0086 EA Landline, 10 Digit DTMF (Whelen VD2030LL).....	592.92	32.45
28 47 17 17-0087 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	2,232.45	32.45
28 47 17 17-0088 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	2,232.45	32.45
28 47 17 17-0089 EA UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	2,018.22	32.45
28 47 17 17-0090 EA VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	1,955.21	32.45
28 47 17 17-0091 EA Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LI, VD2020H, VD2020U) (Whelen VORTT).....	439.03	32.45
28 47 17 17-0092 EA Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	688.69	32.45
28 47 17 17-0093 EA Landline, 10 Digit DTMF (Whelen VC2030LL).....	730.28	32.45
28 47 17 17-0094 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	2,446.69	32.45
28 47 17 17-0095 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	2,446.69	32.45
28 47 17 17-0096 EA UHF, 10 Digit DTMF (Whelen VC230WU).....	2,446.69	32.45
28 47 17 17-0097 EA VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	2,446.69	32.45
28 47 17 17-0098 EA Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFASKXMOD).....	873.94	32.45
28 47 17 17-0099 EA Cabinet Window LED Status Indicator (Whelen VSTATUS).....	511.00	32.45
28 47 17 17-0100 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	413.86	32.45
28 47 17 17-0101 EA Vortex Intrusion Alarm (Whelen VINTRU).....	252.53	32.45
28 47 17 17-0102 EA Speaker Pole Top Bracket (Whelen VPTB).....	702.56	32.45
28 47 17 17-0103 EA 80 Watt Solar Power Option (Whelen VSBC280).....	4,510.27	194.68
28 47 17 17-0104 EA One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	953.16	48.67
28 47 17 17-0105 EA Program Charge For Custom VROM Message (Whelen VPROG).....	3,714.05	
28 47 17 17-0106 Uni-Directional Rotating Speakers (28 47 17 17)		
28 47 17 17-0107 EA 118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	14,794.00	828.38
28 47 17 17-0108 EA One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	296.01	32.45
28 47 17 17-0109 EA Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	592.92	32.45
28 47 17 17-0110 EA VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	2,232.45	32.45
28 47 17 17-0111 EA UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	2,232.45	32.45
28 47 17 17-0112 EA UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	2,018.22	32.45
28 47 17 17-0113 EA VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,955.21	32.45
28 47 17 17-0114 EA Two-Tone Sequential Option For Hornet (Whelen HORTT).....	476.98	32.45
28 47 17 17-0115 EA Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	631.24	32.45
28 47 17 17-0116 EA Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	669.00	32.45
28 47 17 17-0117 EA VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	2,446.69	32.45
28 47 17 17-0118 EA UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	2,446.69	32.45
28 47 17 17-0119 EA UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	2,446.69	32.45
28 47 17 17-0120 EA VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	2,446.69	32.45
28 47 17 17-0121 EA Converts Siren Activation Controls To FSK Format (Whelen HFASKXMOD).....	873.94	32.45
28 47 17 17-0122 EA LED Status Indicator (Whelen HSTATUS).....	469.92	32.45
28 47 17 17-0123 EA Option For Paging Interface (Whelen HPGINT).....	413.86	32.45
28 47 17 17-0124 EA Intrusion Alarm (Whelen HINTRU).....	252.53	32.45
28 47 17 17-0125 EA Solar Power Option (Whelen HSBC280).....	4,510.27	194.68
28 47 17 17-0126 EA Pole Top Bracket For Speaker (Whelen HPTB).....	665.57	32.45
28 47 17 17-0127 EA One Pair Of Whelen Approved Batteries (Whelen BSETF).....	953.16	48.67
28 47 17 17-0128 All Hazard In-Plant Personnel Warning System (28 47 17 17)		
28 47 17 17-0129 EA 400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	7,419.94	1,038.33
28 47 17 17-0130 EA 800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	9,002.73	1,168.12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0131	EA		15 Watt, Wide Angle Speaker (Whelen WS15T)	421.13	48.67
28 47 17 17-0132	EA		Recess Mounted, 15 Watt Speaker (Whelen WS15TR)	402.83	48.67
28 47 17 17-0133	EA		With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN)	768.96	48.67
28 47 17 17-0134	EA		30 Watt, Wide Angle Speaker (Whelen WS30T)	525.25	48.67
28 47 17 17-0135	EA		60 Watt, Wide Angle Speaker (Whelen WS60T)	1,060.71	48.67
28 47 17 17-0136	EA		Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXPL6T)	1,786.40	55.16
28 47 17 17-0137	EA		100 Watt, Wide Angle Speaker (Whelen WS100).....	676.28	48.67
28 47 17 17-0138	EA		Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH)	1,055.39	55.16
28 47 17 17-0139	EA		Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU)	252.53	32.45
28 47 17 17-0140 Firehouse Siren (28 47 17 17)					
28 47 17 17-0141	EA		Auxiliary Board Contact Closure (Whelen FAUXIN)	296.01	32.45
28 47 17 17-0142	EA		Two-Tone Sequential Option (Whelen FTT)	439.03	32.45
28 47 17 17-0143	EA		Auxiliary/Status Control Board (Whelen FAUXCS).....	688.69	32.45
28 47 17 17-0144	EA		Landline, 10 Digit DTMF (Whelen FC2030LL).....	669.00	32.45
28 47 17 17-0145	EA		VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	2,446.69	32.45
28 47 17 17-0146	EA		UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	2,446.69	32.45
28 47 17 17-0147	EA		UHF, 10 Digit DTMF (Whelen FC230WU).....	2,446.69	32.45
28 47 17 17-0148	EA		VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	2,446.69	32.45
28 47 17 17-0149	EA		Paging Interface Control Option (Whelen FPGINT).....	413.86	32.45
28 47 17 17-0150	EA		Intrusion Alarm Control Option (Whelen FINTRU).....	252.53	32.45
28 47 17 17-0151	EA		Solar Power Option (Whelen FSBC280).....	4,510.27	194.68
Note: Two 80 watt panels, with brackets and solar regulator.					
28 47 17 17-0152 Alert Monitor And Message Display (28 47 17 17)					
28 47 17 17-0153	EA		Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	2,043.42	32.45
28 47 17 17-0154	EA		Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	2,043.42	32.45
28 47 17 17-0155	EA		Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	2,043.42	32.45
28 47 17 17-0156	EA		Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	2,043.42	32.45
28 47 17 17-0157	EA		Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	265.53	48.67
28 47 17 17-0158	EA		Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	77.48	32.45
28 47 17 17-0159	EA		Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	162.47	
28 47 17 17-0160	EA		Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	255.15	
28 47 17 17-0161 Portable Test Set (28 47 17 17)					
28 47 17 17-0162	EA		VHF High Band, Portable Test Set (Whelen PT2010H).....	8,229.17	
28 47 17 17-0163	EA		VHF Low Band, Portable Test Set (Whelen PT2010L).....	8,229.17	
28 47 17 17-0164	EA		UHF, Portable Test Set (Whelen PT2010U).....	8,229.17	
28 47 17 17-0165 Replacement Warning Lights (28 47 17 17)					
28 47 17 17-0166	EA		Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA)	415.04	51.92
28 47 17 17-0167	EA		Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB).....	415.04	51.92
28 47 17 17-0168	EA		Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC).....	415.04	51.92
28 47 17 17-0169	EA		Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG).....	415.04	51.92
28 47 17 17-0170	EA		Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR).....	415.04	51.92
28 47 17 17-0171	EA		Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA).....	445.93	51.92
28 47 17 17-0172	EA		Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB).....	291.47	51.92
28 47 17 17-0173	EA		Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC)	441.35	51.92
28 47 17 17-0174	EA		Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG).....	441.35	51.92
28 47 17 17-0175	EA		Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR).....	441.35	51.92
28 47 17 17-0176	EA		Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA).....	415.04	51.92
28 47 17 17-0177	EA		Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB).....	415.04	51.92
28 47 17 17-0178	EA		Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC).....	415.04	51.92
28 47 17 17-0179	EA		Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG).....	415.04	51.92
28 47 17 17-0180	EA		Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR).....	415.04	51.92
28 47 17 17-0181	EA		Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA).....	464.24	51.92
28 47 17 17-0182	EA		Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB)	464.24	51.92
28 47 17 17-0183	EA		Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC).....	302.91	51.92
28 47 17 17-0184	EA		Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG).....	302.91	51.92
28 47 17 17-0185	EA		Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR).....	302.91	51.92
28 47 17 17-0186 Antenna (28 47 17 17)					
28 47 17 17-0187	EA		50' Antenna Cable (Honeywell Ademco 7626-50HC).....	318.21	
28 47 17 17-0188	EA		External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB).....	286.63	
28 47 17 17-0189	EA		80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000).....	15,558.53	
28 47 21 Mass Notification System Interfaces (28 47)					
28 47 21 21 Notification Interfaces to Fire Detection and Alarm (28 47 21)					
28 47 21 21-0001 Emergency Command Center (Honeywell Fire-Lite) (28 47 21 21)					
28 47 21 21-0002	EA		Emergency Command Center Multipurpose Emergency Voice Evacuation Panels (Fire-Lite ECC-50/100(E))	2,755.66	324.47
28 47 21 21-0003	EA		Circuit Expander Module (Fire-Lite ECC_CE6).....	535.55	25.96
28 47 21 21-0004	EA		25V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_25V).....	470.54	32.45
28 47 21 21-0005	EA		75V, 50 Watt Audio Amplifier Module (Fire-Lite ECC_50W_70V).....	485.18	32.45

28 Electronic Safety and Security**28 40 Life Safety****28 47 Mass Notification**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
28 47 21 21-0006	EA	70V Transformer Conversion Module (Fire-Lite ECC_XRM_70V).....	249.46			32.45
28 47 21 21-0007	EA	Local Operator Console (Fire-Lite ECC-LOC)	1,478.67			64.89
28 47 21 21-0008	EA	Remote Page Unit Hand Held Micorphone (Fire-Lite ECC-RPU)	1,171.18			16.22
28 47 21 21-0009	EA	Distributed (Remote) Audio Amplifier, 50 Watts (Fire-Lite ECC-50DA).....	1,124.44			64.89
28 47 21 21-0010	EA	Distributed (Remote) Audio Amplifier, 125 Watts (Fire-Lite ECC-125DA).....	1,938.48			64.89
28 47 21 21-0011	EA	Distributed (Remote) Audio Amplifier With Backup, 50/100 Watts (Fire-Lite ECC50BDA)	3,077.36			64.89
28 47 21 21-0012	EA	100 Watt Primary / 50 Watt Back-up Remote Amplifier Expander Card (Fire-Lite ECC-50WBU).....	1,508.15			32.45
28 47 21 21-0013	EA	Distributed Audio Speaker Circuit/Zone Expander Module (Fire-Lite ECC-CE4).....	465.19			32.45
28 47 21 21-0014	EA	Addressable Mini-Monitor Module (Fire-Lite MMF-301).....	108.63			32.45
28 47 21 21-0015	EA	Thumb Latch (Fire-Lite THUMBLTCH)	60.33			12.98
28 47 21 21-0016	EA	25-120 Ampere-Hours (AH) Battery Charger (Fire-Lite CHG-120F)	842.98			12.98
28 47 21 21-0017	EA	Replacement Microphone (Fire-Lite ECC-MICROPHONE)	173.84			12.98
28 47 21 21-0018	EA	12 Volt, 7 Ampere-Hour (AH) Battery (Fire-Lite BAT-1270).....	322.59			32.45
28 47 21 21-0019	EA	12 Volt, 12 Ampere-Hour (AH) Battery (Fire-Lite BAT-12120).....	414.68			32.45
28 47 21 21-0020	EA	12 Volt, 18 Ampere-Hour (AH) Battery (Fire-Lite BAT-12180).....	307.64			32.45

END OF SECTION 28



		Earthwork	31	15
		Maintenance of Earthwork	31 01	
		Maintenance of Earth Moving	31 01 20	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork⁽³¹⁾

31 01 20 Maintenance of Earth Moving^(31 01)

31 01 20 00-0001	Rip Settling Basins ^(31 01 20)	
Note: Rip through light soil and sand in settling basin. 8' on center (machine width).		
31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	743.59
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	1,132.79
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	988.68

31 05 Common Work Results for Earthwork⁽³¹⁾

31 05 13 Soils for Earthwork^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 05 13 00-0001	Fill Material (Loose, Purchased Material) ^(31 05 13)	
Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.		
31 05 13 00-0002	CY Bank Run/Fill Sand	34.98
	For Up To 8, Add	7.00
	For >8 To 16, Add	3.50
	For >48 To 64, Deduct	-2.62
	For >64 To 96, Deduct	-4.37
	For >96 To 168, Deduct	-6.12
	For >168 To 240, Deduct	-7.43
	For >240, Deduct	-8.74
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	41.02
	For Up To 8, Add	8.20
	For >8 To 16, Add	4.10
	For >48 To 64, Deduct	-2.92
	For >64 To 96, Deduct	-4.98
	For >96 To 168, Deduct	-7.03
	For >168 To 240, Deduct	-8.49
	For >240, Deduct	-9.95
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	55.52
	For Up To 8, Add	11.10
	For >8 To 16, Add	5.55
	For >48 To 64, Deduct	-3.65
	For >64 To 96, Deduct	-6.43
	For >96 To 168, Deduct	-9.20
	For >168 To 240, Deduct	-11.03
	For >240, Deduct	-12.85
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	50.08
	For Up To 8, Add	10.02
	For >8 To 16, Add	5.01
	For >48 To 64, Deduct	-3.38
	For >64 To 96, Deduct	-5.88
	For >96 To 168, Deduct	-8.39
	For >168 To 240, Deduct	-10.07
	For >240, Deduct	-11.76
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	87.52
	For Up To 8, Add	17.50
	For >8 To 16, Add	8.75
	For >48 To 64, Deduct	-5.25
	For >64 To 96, Deduct	-9.63
	For >96 To 168, Deduct	-14.00
	For >168 To 240, Deduct	-16.63
	For >240, Deduct	-19.25
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	37.82
	For Up To 8, Add	7.56
	For >8 To 16, Add	3.78
	For >48 To 64, Deduct	-2.76
	For >64 To 96, Deduct	-4.66
	For >96 To 168, Deduct	-6.55
	For >168 To 240, Deduct	-7.93
	For >240, Deduct	-9.31
31 05 13 00-0008	CY Lime Rock Screening	41.91
	For Up To 8, Add	8.38
	For >8 To 16, Add	4.19
	For >48 To 64, Deduct	-2.97
	For >64 To 96, Deduct	-5.06
	For >96 To 168, Deduct	-7.16
	For >168 To 240, Deduct	-8.64
	For >240, Deduct	-10.13

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0009	CY		Crushed Lime Rock Maximum 3-1/2"	41.91	
			For Up To 8, Add	8.38	
			For >8 To 16, Add	4.19	
			For >48 To 64, Deduct	-2.97	
			For >64 To 96, Deduct	-5.06	
			For >96 To 168, Deduct	-7.16	
			For >168 To 240, Deduct	-8.64	
			For >240, Deduct	-10.13	
31 05 13 00-0010	CY		Sand/Clay	36.52	
			For Up To 8, Add	7.30	
			For >8 To 16, Add	3.65	
			For >48 To 64, Deduct	-2.70	
			For >64 To 96, Deduct	-4.53	
			For >96 To 168, Deduct	-6.35	
			For >168 To 240, Deduct	-7.70	
			For >240, Deduct	-9.05	
31 05 13 00-0011	CY		Recycled Concrete Aggregate	37.67	
			For Up To 8, Add	7.53	
			For >8 To 16, Add	3.77	
			For >48 To 64, Deduct	-2.76	
			For >64 To 96, Deduct	-4.64	
			For >96 To 168, Deduct	-6.52	
			For >168 To 240, Deduct	-7.90	
			For >240, Deduct	-9.28	
31 05 13 00-0012	CY		Pit Run Clay	52.35	
			For Up To 8, Add	10.47	
			For >8 To 16, Add	5.24	
			For >48 To 64, Deduct	-3.49	
			For >64 To 96, Deduct	-6.11	
			For >96 To 168, Deduct	-8.73	
			For >168 To 240, Deduct	-10.47	
			For >240, Deduct	-12.22	
31 05 13 00-0013	CY		Light Clay / Loam	43.58	
			For Up To 8, Add	8.72	
			For >8 To 16, Add	4.36	
			For >48 To 64, Deduct	-3.05	
			For >64 To 96, Deduct	-5.23	
			For >96 To 168, Deduct	-7.41	
			For >168 To 240, Deduct	-8.94	
			For >240, Deduct	-10.46	
31 05 13 00-0014	CY		Heavy Clay	52.35	
			For Up To 8, Add	10.47	
			For >8 To 16, Add	5.24	
			For >48 To 64, Deduct	-3.49	
			For >64 To 96, Deduct	-6.11	
			For >96 To 168, Deduct	-8.73	
			For >168 To 240, Deduct	-10.47	
			For >240, Deduct	-12.22	

31 05 16 Aggregates for Earthwork (31 05)

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

31 05 16 00-0001 Aggregate (Loose, Purchased Material) (31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles, 01 74 19 00-0045 for hauling greater than 15 miles.

31 05 16 00-0002	CY		#2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	55.81	
			For Up To 8, Add	11.16	
			For >8 To 16, Add	5.58	
			For >48 To 64, Deduct	-3.66	
			For >64 To 96, Deduct	-6.45	
			For >96 To 168, Deduct	-9.25	
			For >168 To 240, Deduct	-11.08	
			For >240, Deduct	-12.91	
31 05 16 00-0003	CY		#3 Stone Aggregate Fill (1" To 2" Clean)	58.06	
			For Up To 8, Add	11.61	
			For >8 To 16, Add	5.81	
			For >48 To 64, Deduct	-3.78	
			For >64 To 96, Deduct	-6.68	
			For >96 To 168, Deduct	-9.58	
			For >168 To 240, Deduct	-11.47	
			For >240, Deduct	-13.36	
31 05 16 00-0004	CY		#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	55.81	
			For Up To 8, Add	11.16	
			For >8 To 16, Add	5.58	
			For >48 To 64, Deduct	-3.66	
			For >64 To 96, Deduct	-6.45	
			For >96 To 168, Deduct	-9.25	
			For >168 To 240, Deduct	-11.08	
			For >240, Deduct	-12.91	



		Earthwork	31
		Common Work Results for Earthwork	31 05
		Aggregates for Earthwork	31 05 16

15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean).....	59.69	
For Up To 8, Add	11.94	
For >8 To 16, Add	5.97	
For >48 To 64, Deduct	-3.86	
For >64 To 96, Deduct	-6.84	
For >96 To 168, Deduct	-9.83	
For >168 To 240, Deduct	-11.76	
For >240, Deduct	-13.69	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean).....	61.97	
For Up To 8, Add	12.39	
For >8 To 16, Add	6.20	
For >48 To 64, Deduct	-3.97	
For >64 To 96, Deduct	-7.07	
For >96 To 168, Deduct	-10.17	
For >168 To 240, Deduct	-12.16	
For >240, Deduct	-14.14	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1")	60.04	
For Up To 8, Add	12.01	
For >8 To 16, Add	6.00	
For >48 To 64, Deduct	-3.88	
For >64 To 96, Deduct	-6.88	
For >96 To 168, Deduct	-9.88	
For >168 To 240, Deduct	-11.82	
For >240, Deduct	-13.76	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (3/8" To 1")	64.03	
For Up To 8, Add	12.81	
For >8 To 16, Add	6.40	
For >48 To 64, Deduct	-4.08	
For >64 To 96, Deduct	-7.28	
For >96 To 168, Deduct	-10.48	
For >168 To 240, Deduct	-12.52	
For >240, Deduct	-14.55	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (3/16" To 3/4")	57.93	
For Up To 8, Add	11.59	
For >8 To 16, Add	5.79	
For >48 To 64, Deduct	-3.77	
For >64 To 96, Deduct	-6.67	
For >96 To 168, Deduct	-9.56	
For >168 To 240, Deduct	-11.45	
For >240, Deduct	-13.33	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (3/8" To 1/2")	59.04	
For Up To 8, Add	11.81	
For >8 To 16, Add	5.90	
For >48 To 64, Deduct	-3.83	
For >64 To 96, Deduct	-6.78	
For >96 To 168, Deduct	-9.73	
For >168 To 240, Deduct	-11.64	
For >240, Deduct	-13.56	
31 05 16 00-0011 CY #78 Stone Aggregate Fill (3/32" To 1/2")	59.52	
For Up To 8, Add	11.90	
For >8 To 16, Add	5.95	
For >48 To 64, Deduct	-3.85	
For >64 To 96, Deduct	-6.83	
For >96 To 168, Deduct	-9.80	
For >168 To 240, Deduct	-11.73	
For >240, Deduct	-13.65	
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/32" To 3/8")	61.97	
For Up To 8, Add	12.39	
For >8 To 16, Add	6.20	
For >48 To 64, Deduct	-3.97	
For >64 To 96, Deduct	-7.07	
For >96 To 168, Deduct	-10.17	
For >168 To 240, Deduct	-12.16	
For >240, Deduct	-14.14	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (1/16" To 3/8")	62.66	
For Up To 8, Add	12.53	
For >8 To 16, Add	6.27	
For >48 To 64, Deduct	-4.01	
For >64 To 96, Deduct	-7.14	
For >96 To 168, Deduct	-10.27	
For >168 To 240, Deduct	-12.28	
For >240, Deduct	-14.28	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (3/32" To 3/16")	61.97	
For Up To 8, Add	12.39	
For >8 To 16, Add	6.20	
For >48 To 64, Deduct	-3.97	
For >64 To 96, Deduct	-7.07	
For >96 To 168, Deduct	-10.17	
For >168 To 240, Deduct	-12.16	
For >240, Deduct	-14.14	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 16 Aggregates for Earthwork**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0015	CY		#10 Stone Aggregate Fill (1/16" To 3/16")	63.38	
			For Up To 8, Add	12.68	
			For >8 To 16, Add	6.34	
			For >48 To 64, Deduct	-4.04	
			For >64 To 96, Deduct	-7.21	
			For >96 To 168, Deduct	-10.38	
			For >168 To 240, Deduct	-12.40	
			For >240, Deduct	-14.42	
31 05 16 00-0016	CY		#610 Modified Stone Aggregate Fill (1/16" To 3/4")	62.66	
			For Up To 8, Add	12.53	
			For >8 To 16, Add	6.27	
			For >48 To 64, Deduct	-4.01	
			For >64 To 96, Deduct	-7.14	
			For >96 To 168, Deduct	-10.27	
			For >168 To 240, Deduct	-12.28	
			For >240, Deduct	-14.28	
31 05 16 00-0017	CY		Screenings Stone Aggregate Fill (3/16" Max)	52.66	
			For Up To 8, Add	10.53	
			For >8 To 16, Add	5.27	
			For >48 To 64, Deduct	-3.51	
			For >64 To 96, Deduct	-6.14	
			For >96 To 168, Deduct	-8.77	
			For >168 To 240, Deduct	-10.53	
			For >240, Deduct	-12.28	
31 05 16 00-0018	CY		Over 6" To 12" Stone Aggregate Fill, Random Size	57.18	
			For Up To 8, Add	11.44	
			For >8 To 16, Add	5.72	
			For >48 To 64, Deduct	-3.73	
			For >64 To 96, Deduct	-6.59	
			For >96 To 168, Deduct	-9.45	
			For >168 To 240, Deduct	-11.32	
			For >240, Deduct	-13.18	
31 05 16 00-0019	CY		Over 6" To 12" Graded Stone Aggregate Fill	57.18	
			For Up To 8, Add	11.44	
			For >8 To 16, Add	5.72	
			For >48 To 64, Deduct	-3.73	
			For >64 To 96, Deduct	-6.59	
			For >96 To 168, Deduct	-9.45	
			For >168 To 240, Deduct	-11.32	
			For >240, Deduct	-13.18	
31 05 16 00-0020	CY		3" To 7" Surge Stone Aggregate Fill, Random Size	61.70	
			For Up To 8, Add	12.34	
			For >8 To 16, Add	6.17	
			For >48 To 64, Deduct	-3.96	
			For >64 To 96, Deduct	-7.04	
			For >96 To 168, Deduct	-10.13	
			For >168 To 240, Deduct	-12.11	
			For >240, Deduct	-14.09	
31 05 16 00-0021	CY		3" To 7" Surge Stone Graded Aggregate Fill	64.92	
			For Up To 8, Add	12.98	
			For >8 To 16, Add	6.49	
			For >48 To 64, Deduct	-4.12	
			For >64 To 96, Deduct	-7.37	
			For >96 To 168, Deduct	-10.61	
			For >168 To 240, Deduct	-12.67	
			For >240, Deduct	-14.73	
31 05 16 00-0022	CY		Crusher Run Aggregate Fill (2-1/2" Minus)	36.93	
			For Up To 8, Add	7.39	
			For >8 To 16, Add	3.69	
			For >48 To 64, Deduct	-2.72	
			For >64 To 96, Deduct	-4.57	
			For >96 To 168, Deduct	-6.41	
			For >168 To 240, Deduct	-7.77	
			For >240, Deduct	-9.13	
31 05 16 00-0023	CY		Crusher Run Aggregate Fill (1-1/2" Minus)	40.47	
			For Up To 8, Add	8.09	
			For >8 To 16, Add	4.05	
			For >48 To 64, Deduct	-2.90	
			For >64 To 96, Deduct	-4.92	
			For >96 To 168, Deduct	-6.94	
			For >168 To 240, Deduct	-8.39	
			For >240, Deduct	-9.84	
31 05 16 00-0024	CY		Crusher Run Aggregate Fill (3/4" Minus)	38.17	
			For Up To 8, Add	7.63	
			For >8 To 16, Add	3.82	
			For >48 To 64, Deduct	-2.78	
			For >64 To 96, Deduct	-4.69	
			For >96 To 168, Deduct	-6.60	
			For >168 To 240, Deduct	-7.99	
			For >240, Deduct	-9.38	



Earthwork		31
Common Work Results for Earthwork		31 05
Aggregates for Earthwork		31 05 16

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0025	CY		Silica Sand #20 (For Playground Use Only)	244.32	
			For Up To 8, Add	48.86	
			For >8 To 16, Add	24.43	
			For >16 To 64, Deduct	-13.09	
			For >64 To 96, Deduct	-25.31	
			For >96 To 168, Deduct	-37.52	
			For >168 To 240, Deduct	-44.07	
			For >240, Deduct	-50.61	
31 05 16 00-0026	CY		Graded Aggregate Base Fill (3/4" Minus) Class II Base	57.48	
			For Up To 8, Add	11.50	
			For >8 To 16, Add	5.75	
			For >16 To 64, Deduct	-3.75	
			For >64 To 96, Deduct	-6.62	
			For >96 To 168, Deduct	-9.50	
			For >168 To 240, Deduct	-11.37	
			For >240, Deduct	-13.24	

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization ⁽³¹⁾

⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾

31 11 Clearing and Grubbing ^(31 10)

31 11 00 00-0001 Clear And Grub Roots And Stumps ^(31 11)

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR	Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	7,836.65
		Note: Includes grub and removal of stump	
31 11 00 00-0003	ACR	Clear And Grub Light Stumps Only Up To 6" Diameter	2,332.93
31 11 00 00-0004	ACR	Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	10,448.85
		Note: Includes grub and removal of stump	
31 11 00 00-0005	ACR	Clear And Grub Medium Stumps Only Up To 10" Diameter	3,888.21
31 11 00 00-0006	ACR	Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	14,367.18
		Note: Includes grub and removal of stump	
31 11 00 00-0007	ACR	Clear And Grub Heavy Stumps Only Up To 16" Diameter	5,832.31
31 11 00 00-0008	ACR	Clear And Grub Heavy Trees Up To 24" Diameter, Cut And Chip	20,897.72
		Note: Includes grub and removal of stump	
31 11 00 00-0009	ACR	Clear And Grub Heavy Stumps Only Up To 24" Diameter	8,165.24
31 11 00 00-0010	ACR	Clearing By Machine - Light Brush Without Grub	355.37
31 11 00 00-0011	ACR	Clearing By Machine - Medium Brush Without Grub	739.38
31 11 00 00-0012	ACR	Clearing By Machine - Heavy Brush Without Grub	1,040.77
31 11 00 00-0013	ACR	Chipping - Light Brush	2,786.86
31 11 00 00-0014	ACR	Chipping - Medium Brush	3,583.28
31 11 00 00-0015	ACR	Chipping - Heavy Brush	5,017.06

31 11 00 00-0016 Loading Of Cleared And Grubbed Material ^(31 11)

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

31 11 00 00-0017	CY	Machine Loading Of Cleared And Grubbed Material	12.45
31 11 00 00-0018	CY	Chute Loading Of Cleared And Grubbed Material	14.94
31 11 00 00-0019	CY	Hand Loading Of Cleared And Grubbed Material	42.06
31 11 00 00-0020	CY	Wheel And Ramp Loading Of Cleared And Grubbed Material	33.04

31 13 Selective Tree and Shrub Removal and Trimming ^(31 10)

31 13 13 Selective Tree and Shrub Removal ^(31 13)

31 13 13 00-0001 Individual Tree Removal ^(31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA	Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	653.06
		Note: Includes cutting up tree, chipping and loading	
31 13 13 00-0003	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	979.58
		Note: Includes cutting up tree, chipping and loading	
31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,306.10
		Note: Includes cutting up tree, chipping and loading	
31 13 13 00-0005	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,959.16
		Note: Includes cutting up tree, chipping and loading	
31 13 13 00-0006	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,612.22
		Note: Includes cutting up tree, chipping and loading	
31 13 13 00-0007	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	3,265.27
		Note: Includes cutting up tree, chipping and loading	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-816.32
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	3,918.32
		Note: Includes cutting up tree, chipping and loading	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-979.58
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	5,224.43
		Note: Includes cutting up tree, chipping and loading	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-1,306.11

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree and Shrub Removal and Trimming**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 13 13 00-0010	Stump Removal (31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0011	Stump Removal By Machine (31 13 13 00-0010)		
31 13 13 00-0012	EA Up To 6" Diameter Stump Removal.....	116.65	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0013	EA >6" To 12" Diameter Stump Removal.....	223.57	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0014	EA >12" To 24" Diameter Stump Removal.....	291.61	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0015	EA >24" To 36" Diameter Stump Removal.....	437.43	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0016	EA >36" To 48" Diameter Stump Removal.....	515.22	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0017	EA >48" To 60" Diameter Stump Removal.....	606.56	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0018	EA >60" To 72" Diameter Stump Removal.....	719.32	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0019	EA >72" To 84" Diameter Stump Removal.....	845.69	
	Note: Includes excavation necessary to remove stump and loading.		
31 13 13 00-0020	Stump Removal By Hand (31 13 13 00-0010)		
31 13 13 00-0021	EA Up To 6" Diameter Stump Removal By Hand.....	680.75	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0022	EA >6" To 12" Diameter Stump Removal By Hand.....	850.94	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0023	EA >12" To 24" Diameter Stump Removal By Hand.....	1,248.04	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0024	EA >24" To 36" Diameter Stump Removal By Hand.....	1,701.87	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0025	EA >36" To 48" Diameter Stump Removal By Hand.....	2,269.17	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0026	EA >48" To 60" Diameter Stump Removal By Hand.....	2,836.46	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0027	EA >60" To 72" Diameter Stump Removal By Hand.....	3,403.75	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0028	EA >72" To 84" Diameter Stump Removal By Hand.....	3,971.04	
	Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.		
31 13 13 00-0029	Stump Grinding (31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0030	Stump Grinding, 18" Deep Below Surface Of Soil (31 13 13 00-0029) Note: Level soil to match existing surface area.		
31 13 13 00-0031	EA Stump Grinding Up To 6" Tree.....	123.09	
	For 24" Depth, Add	24.62	
31 13 13 00-0032	EA Stump Grinding >6" To 12" Tree.....	153.87	
	For 24" Depth, Add	30.77	
31 13 13 00-0033	EA Stump Grinding >12" To 15" Tree.....	184.64	
	For 24" Depth, Add	36.93	
31 13 13 00-0034	EA Stump Grinding >15" To 18" Tree.....	205.15	
	For 24" Depth, Add	41.03	
31 13 13 00-0035	EA Stump Grinding >18" To 21" Tree.....	220.54	
	For 24" Depth, Add	44.11	
31 13 13 00-0036	EA Stump Grinding >21" To 24" Tree.....	235.92	
	For 24" Depth, Add	47.18	
31 13 13 00-0037	EA Stump Grinding >24" To 27" Tree.....	256.44	
	For 24" Depth, Add	51.29	
31 13 13 00-0038	EA Stump Grinding >27" To 30" Tree.....	278.39	
	For 24" Depth, Add	55.68	
31 13 13 00-0039	EA Stump Grinding >30" To 33" Tree.....	309.32	
	For 24" Depth, Add	61.86	
31 13 13 00-0040	EA Stump Grinding >33" To 36" Tree.....	340.25	
	For 24" Depth, Add	68.05	
31 13 13 00-0041	EA Stump Grinding >36" To 42" Tree.....	371.18	
	For 24" Depth, Add	74.24	
31 13 13 00-0042	EA Stump Grinding >42" To 48" Tree.....	412.43	
	For 24" Depth, Add	82.49	
31 13 13 00-0043	EA Stump Grinding >48" To 60" Tree.....	515.54	
	For 24" Depth, Add	103.11	
31 13 13 00-0044	EA Stump Grinding >60" To 72" Tree.....	644.42	
	For 24" Depth, Add	128.88	



		Earthwork	31	15
		Site Clearing	31 10	
		Selective Tree and Shrub Removal and Trimming	31 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 13 13 00-0045	EA		Stump Grinding >72" To 84" Tree..... <i>For 24" Depth, Add</i>	824.86 164.97	

31 13 13 00-0046 **Fallen Tree Removal** (31 13 13)

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding. Excludes removing tree from ground.

31 13 13 00-0047	EA		Up To 6" D.B.H. (Diameter At Breast Height) Fallen Tree Removal <i>Note: Includes cutting up tree, chipping and loading.</i> <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >25, Deduct</i>	522.45 -130.61 -65.31	
31 13 13 00-0048	EA		>6" To 12" D.B.H. (Diameter At Breast Height) Fallen Tree Removal <i>Note: Includes cutting up tree, chipping and loading.</i> <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >25, Deduct</i>	783.67 -195.92 -97.96	
31 13 13 00-0049	EA		>12" To 24" D.B.H. (Diameter At Breast Height) Fallen Tree Removal <i>Note: Includes cutting up tree, chipping and loading.</i> <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	1,044.88 -261.22 -104.49	
31 13 13 00-0050	EA		>24" To 36" D.B.H. (Diameter At Breast Height) Fallen Tree Removal <i>Note: Includes cutting up tree, chipping and loading.</i> <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	1,567.33 -391.83 -156.73	
31 13 13 00-0051	EA		>36" To 48" D.B.H. (Diameter At Breast Height) Fallen Tree Removal <i>Note: Includes cutting up tree, chipping and loading.</i> <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	2,089.77 -522.44 -208.98	
31 13 13 00-0052	EA		>48" To 60" D.B.H. (Diameter At Breast Height) Fallen Tree Removal <i>Note: Includes cutting up tree, chipping and loading.</i> <i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i> <i>For >10, Deduct</i>	2,612.22 -653.06 -261.22	

31 13 16 **Selective Tree and Shrub Trimming** (31 13)

See CSI section 32 01 90 23-0000 for tree pruning.

31 13 16 00-0001 **Tree Trimming For Pole Line Construction And Maintenance** (31 13 16)

Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.

31 13 16 00-0002	LF		Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction	2.11	
31 13 16 00-0003	LF		Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction	3.17	
31 13 16 00-0004	LF		Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction	3.72	

31 13 16 00-0005 **Tree Branch Trimming And Removal For Maintenance Along Building Or Structure** (31 13 16)

Note: Includes pick-up and placement of cut branches into chipper for removal. Excludes transportation from site or disposal fee. See CSI section 01 22 23 00-0105 for bucket truck where required for additional height.

31 13 16 00-0006	EA		Trim Tree Branch Minimum Charge..... <i>Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively.</i> <i>This task should not be used in conjunction with any other tasks in this section.</i>	768.43	
31 13 16 00-0007	EA		Up To 1" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	19.21	
31 13 16 00-0008	EA		>1" To 2" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	21.62	
31 13 16 00-0009	EA		>2" To 3" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	26.42	
31 13 16 00-0010	EA		Up To 1" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	24.02	
31 13 16 00-0011	EA		>1" To 2" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	27.01	
31 13 16 00-0012	EA		>2" To 3" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure	33.02	

31 20 **Earth Moving** (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 22 **Grading** (31 20)

31 22 13 **Rough Grading** (31 22)

See CSI section 31 23 16 00-0000 for rough grading.

31	Earthwork
31 20	Earth Moving
31 22	Grading



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 22 16 Fine Grading (31 22)

31 22 16 13 Roadway Subgrade Reshaping (31 22 16)

See CSI section 31 23 16 00-0000 for bulk shaping and grading, 31 24 13 00-0000 for roadway shaping and grading.

31 22 19 Finish Grading (31 22)

31 22 19 13 Spreading and Grading Topsoil (31 22 19)

31 22 19 13-0001 Site Grading For Areas Outside Of Structures And Slabs (31 22 19 13)

Note: Use of bobcat type equipment or hand for finish grading for positive drainage.

31 22 19 13-0002 Hand Digging And Grading (31 22 19 13-0001)

31 22 19 13-0003	SF	Trim And Shape Machine Excavated Area By Hand Finish Grade	1.16
31 22 19 13-0004	SF	Trim And Shape Area On Grade By Hand, Finish Grade	1.06
31 22 19 13-0005	SF	Fine Grade Gravel Bedding By Hand Finish Grade	1.10
31 22 19 13-0006	SF	Fine Grade Gravel By Hand Finish Grade	0.92

31 22 19 13-0007 Machine Operations (31 22 19 13-0001)

31 22 19 13-0008 Machine Operations With Grader (31 22 19 13-0007)

31 22 19 13-0009	CSY	Semi-Grade, 2 Passes With Grader	454.80
31 22 19 13-0010	CSY	Fine Grade, 3 Passes With Grader	631.67

31 23 Excavation and Fill (31 20)

31 23 16 Excavation (31 23)

31 23 16 13 Trenching (31 23 16)

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine (31 23 16 13)

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002	CY	12" Wide or Less, Excavation for Trenching by Machine in Soil	12.09
		For Excavation In Light Material (Class A), Deduct	-1.51
		For Excavation In Heavy/Wet Material (Class C), Add	4.84
		For Up To 20, Add	12.09
		For >20 To 50, Add	9.07
		For >50 To 250, Add	4.84
		For >250 To 500, Add	1.81
		For >1,000, Deduct	-1.81
31 23 16 13-0003	CY	Over 12" Wide, Excavation for Trenching by Machine in Soil	7.80
		For Excavation In Light Material (Class A), Deduct	-0.98
		For Excavation In Heavy/Wet Material (Class C), Add	3.12
		For Up To 20, Add	7.80
		For >20 To 50, Add	5.85
		For >50 To 250, Add	3.12
		For >250 To 500, Add	1.17
		For >1,000, Deduct	-1.17
31 23 16 13-0004	CY	12" Wide or Less, Excavation for Trenching by Machine in Loose Rock	20.02
		Note: Includes compacted aggregate	
		For Up To 20, Add	20.02
		For >20 To 50, Add	15.02
		For >50 To 250, Add	8.01
		For >250 To 500, Add	3.00
		For >1,000, Deduct	-3.00
31 23 16 13-0005	CY	Over 12" Wide, Excavation for Trenching by Machine in Loose Rock	13.85
		Note: Includes compacted aggregate	
		For Up To 20, Add	13.85
		For >20 To 50, Add	10.39
		For >50 To 250, Add	5.54
		For >250 To 500, Add	2.08
		For >1,000, Deduct	-2.08

31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)

31 23 16 13-0007	CY	Excavation For Trenching By Hand In Soil	138.79
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0008	CY	Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate	238.07
		Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0009	SF	Trim Bottom Of Excavation Hand Labor	1.08
		Note: For use with machine excavation.	
31 23 16 13-0010	SF	Trim Slopes/Sides Of Excavation Hand Labor	1.24
		Note: For use with machine excavation.	

31 23 16 13-0011 Backfilling Or Placing Subbase For Trenches (31 23 16 13)

Note: With imported or stockpiled materials.



Earthwork		31
Earth Moving		31 20
Excavation and Fill		31 23

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
31 23 16 13-0012	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine.....	4.43	
		For Up To 20, Add	4.43	
		For >20 To 50, Add	3.32	
		For >50 To 250, Add	1.77	
		For >250 To 500, Add	0.66	
		For >1,000, Deduct	-0.66	
31 23 16 13-0013	CY	Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand.....	38.55	
31 23 16 13-0014		Compaction Of Fill Or Subbase For Trenches (31 23 16 13)		
		Note: Includes restoration of final grade.		
31 23 16 13-0015	CY	Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	8.04	
		For Up To 20, Add	8.04	
		For >20 To 50, Add	6.03	
		For >50 To 250, Add	3.22	
		For >250 To 500, Add	1.21	
		For >1,000, Deduct	-1.21	
31 23 16 13-0016	CY	Compaction of Fill or Subbase for Trenches by Hand	43.49	
31 23 16 13-0017		Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13)		
		Note: Includes handwork by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.		
31 23 16 13-0018	CY	Load Excess Material by Machine for Removal from Excavation for Trenching	7.70	
		For Up To 20, Add	7.70	
		For >20 To 50, Add	5.78	
		For >50 To 250, Add	3.08	
		For >250 To 500, Add	1.16	
		For >1,000, Deduct	-1.16	
31 23 16 13-0019	CY	Load Excess Material by Hand for Removal from Excavation for Trenching	101.77	
31 23 16 13-0020		Spread Excess Or Imported Material For Trenches (31 23 16 13)		
		Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0021	CY	Spread Excess Or Imported Material On Site With Machine	3.69	
		For Up To 20, Add	3.69	
		For >20 To 50, Add	2.77	
		For >50 To 250, Add	1.48	
		For >250 To 500, Add	0.55	
		For >1,000, Deduct	-0.55	
31 23 16 13-0022		Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13)		
		Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0023	LF	Direct Burial of Cable or Piping up to 12" Deep	2.69	
31 23 16 13-0024	LF	Direct Burial of Cable or Piping >12" to 24" Deep.....	2.96	
31 23 16 13-0025	LF	Direct Burial of Cable or Piping >24" to 36" Deep.....	4.22	
31 23 16 13-0026	LF	Direct Burial of Cable or Piping >36" to 48" Deep.....	4.75	
31 23 16 13-0027		Utility Chain Trencher (31 23 16 13)		
31 23 16 13-0028		Utility Trench, Chain Trencher (31 23 16 13-0027)		
		Note: Earth left adjacent to trench.		
31 23 16 13-0029	LF	4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.51	
		For >100 To 250, Deduct	-0.11	
		For >250 To 500, Deduct	-0.23	
		For >500, Deduct	-0.45	
31 23 16 13-0030	LF	4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.65	
		For >100 To 250, Deduct	-0.12	
		For >250 To 500, Deduct	-0.25	
		For >500, Deduct	-0.50	
31 23 16 13-0031	LF	4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.71	
		For >100 To 250, Deduct	-0.12	
		For >250 To 500, Deduct	-0.26	
		For >500, Deduct	-0.51	
31 23 16 13-0032	LF	6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.81	
		For >100 To 250, Deduct	-0.13	
		For >250 To 500, Deduct	-0.27	
		For >500, Deduct	-0.54	
31 23 16 13-0033	LF	6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.98	
		For >100 To 250, Deduct	-0.14	
		For >250 To 500, Deduct	-0.30	
		For >500, Deduct	-0.59	
31 23 16 13-0034	LF	6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.26	
		For >100 To 250, Deduct	-0.16	
		For >250 To 500, Deduct	-0.34	
		For >500, Deduct	-0.68	
31 23 16 13-0035	LF	6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.71	
		For >100 To 250, Deduct	-0.19	
		For >250 To 500, Deduct	-0.41	
		For >500, Deduct	-0.81	

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
31 23 16 13-0036	LF	8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.56	
		For >100 To 250, Deduct	-0.18	
		For >250 To 500, Deduct	-0.38	
		For >500, Deduct	-0.77	
31 23 16 13-0037	LF	8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	3.01	
		For >100 To 250, Deduct	-0.21	
		For >250 To 500, Deduct	-0.45	
		For >500, Deduct	-0.90	
31 23 16 13-0038	LF	8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	3.42	
		For >100 To 250, Deduct	-0.24	
		For >250 To 500, Deduct	-0.51	
		For >500, Deduct	-1.03	
31 23 16 13-0039	LF	8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	4.06	
		For >100 To 250, Deduct	-0.28	
		For >250 To 500, Deduct	-0.61	
		For >500, Deduct	-1.22	
31 23 16 13-0040 Backfill Trenches With Compaction (31 23 16 13-0027)				
31 23 16 13-0041	LF	Backfill 4" Wide, 12" Deep Trench, With Compaction	0.23	
		For >100 To 250, Deduct	-0.02	
		For >250 To 500, Deduct	-0.03	
		For >500, Deduct	-0.07	
31 23 16 13-0042	LF	Backfill 4" Wide, 18" Deep Trench, With Compaction	0.37	
		For >100 To 250, Deduct	-0.03	
		For >250 To 500, Deduct	-0.06	
		For >500, Deduct	-0.11	
31 23 16 13-0043	LF	Backfill 4" Wide, 24" Deep Trench, With Compaction	0.48	
		For >100 To 250, Deduct	-0.03	
		For >250 To 500, Deduct	-0.07	
		For >500, Deduct	-0.14	
31 23 16 13-0044	LF	Backfill 6" Wide, 12" Deep Trench, With Compaction	0.37	
		For >100 To 250, Deduct	-0.03	
		For >250 To 500, Deduct	-0.06	
		For >500, Deduct	-0.11	
31 23 16 13-0045	LF	Backfill 6" Wide, 18" Deep Trench, With Compaction	0.48	
		For >100 To 250, Deduct	-0.03	
		For >250 To 500, Deduct	-0.07	
		For >500, Deduct	-0.14	
31 23 16 13-0046	LF	Backfill 6" Wide, 24" Deep Trench, With Compaction	0.74	
		For >100 To 250, Deduct	-0.05	
		For >250 To 500, Deduct	-0.11	
		For >500, Deduct	-0.22	
31 23 16 13-0047	LF	Backfill 6" Wide, 36" Deep Trench, With Compaction	1.05	
		For >100 To 250, Deduct	-0.07	
		For >250 To 500, Deduct	-0.16	
		For >500, Deduct	-0.32	
31 23 16 13-0048	LF	Backfill 8" Wide, 12" Deep Trench, With Compaction	0.48	
		For >100 To 250, Deduct	-0.03	
		For >250 To 500, Deduct	-0.07	
		For >500, Deduct	-0.14	
31 23 16 13-0049	LF	Backfill 8" Wide, 18" Deep Trench, With Compaction	0.74	
		For >100 To 250, Deduct	-0.05	
		For >250 To 500, Deduct	-0.11	
		For >500, Deduct	-0.22	
31 23 16 13-0050	LF	Backfill 8" Wide, 24" Deep Trench, With Compaction	0.98	
		For >100 To 250, Deduct	-0.07	
		For >250 To 500, Deduct	-0.15	
		For >500, Deduct	-0.29	
31 23 16 13-0051	LF	Backfill 8" Wide, 36" Deep Trench, With Compaction	1.46	
		For >100 To 250, Deduct	-0.10	
		For >250 To 500, Deduct	-0.22	
		For >500, Deduct	-0.44	
31 23 16 16 Structural Excavation for Minor Structures (31 23 16)				
31 23 16 16-0001		Post Holes (31 23 16 16)		
		Note: Excludes spreading of excess material on site or loading and removal of excavated material from site.		
31 23 16 16-0002		Drilling Post Hole In Soil (31 23 16 16-0001)		
		Note: Auger by machine unless otherwise notified by owner.		
31 23 16 16-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	10.19	
31 23 16 16-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil	11.46	
31 23 16 16-0005	VLF	3" Diameter Hole, Auger By Machine Post Hole In Soil	13.58	
31 23 16 16-0006	VLF	4" Diameter Hole, Auger By Machine Post Hole In Soil	15.27	
31 23 16 16-0007	VLF	6" Diameter Hole, Auger By Machine Post Hole In Soil	16.66	
31 23 16 16-0008	VLF	8" Diameter Hole, Auger By Machine Post Hole In Soil	18.33	
31 23 16 16-0009	VLF	10" Diameter Hole, Auger By Machine Post Hole In Soil	20.37	
31 23 16 16-0010	VLF	12" Diameter Hole, Auger By Machine Post Hole In Soil	22.91	
31 23 16 16-0011	VLF	18" Diameter Hole, Auger By Machine Post Hole In Soil	26.19	
31 23 16 16-0012	VLF	24" Diameter Hole, Auger By Machine Post Hole In Soil	30.56	
31 23 16 16-0013	VLF	30" Diameter Hole, Auger By Machine Post Hole In Soil	36.66	
31 23 16 16-0014	VLF	36" Diameter Hole, Auger By Machine Post Hole In Soil	45.83	



Earthwork		31	15
Earth Moving		31 20	
Excavation and Fill		31 23	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 16-0015 Drilling Post Hole In Rock (31 23 16 16-0001)				
31 23 16 16-0016	CF	Jackhammer Post Hole, Rock.....	77.70	
31 23 16 16-0017	CF	Rock Drill Post Hole, Rock.....	21.24	
31 23 16 16-0018 Post Hole Fill (31 23 16 16-0001)				
31 23 16 16-0019 Concrete Fill (31 23 16 16-0018)				
31 23 16 16-0020	VLF	Concrete Fill, Up To 2-1/2" Diameter Hole.....	6.29	
31 23 16 16-0021	VLF	Concrete Fill, 2-1/2" Diameter Hole	8.06	
31 23 16 16-0022	VLF	Concrete Fill, 3" Diameter Hole	8.91	
31 23 16 16-0023	VLF	Concrete Fill, 4" Diameter Hole	10.28	
31 23 16 16-0024	VLF	Concrete Fill, 6" Diameter Hole	14.53	
31 23 16 16-0025	VLF	Concrete Fill, 8" Diameter Hole	19.40	
31 23 16 16-0026	VLF	Concrete Fill, 10" Diameter Hole	23.74	
31 23 16 16-0027	VLF	Concrete Fill, 12" Diameter Hole	27.70	
31 23 16 16-0028	VLF	Concrete Fill, 18" Diameter Hole	37.89	
31 23 16 16-0029	VLF	Concrete Fill, 24" Diameter Hole	47.14	
31 23 16 16-0030	VLF	Concrete Fill, 30" Diameter Hole	56.18	
31 23 16 16-0031	VLF	Concrete Fill, 36" Diameter Hole	65.57	
31 23 16 16-0032 Grout Fill (31 23 16 16-0018)				
31 23 16 16-0033	VLF	Grout Fill, Up To 2-1/2" Diameter Hole.....	7.42	
31 23 16 16-0034	VLF	Grout Fill, 2-1/2" Diameter Hole.....	9.54	
31 23 16 16-0035	VLF	Grout Fill, 3" Diameter Hole	10.41	
31 23 16 16-0036	VLF	Grout Fill, 4" Diameter Hole	11.76	
31 23 16 16-0037	VLF	Grout Fill, 6" Diameter Hole	16.45	
31 23 16 16-0038	VLF	Grout Fill, 8" Diameter Hole	21.95	
31 23 16 16-0039	VLF	Grout Fill, 10" Diameter Hole	26.77	
31 23 16 16-0040	VLF	Grout Fill, 12" Diameter Hole	31.09	
31 23 16 16-0041	VLF	Grout Fill, 18" Diameter Hole	41.72	
31 23 16 16-0042	VLF	Grout Fill, 24" Diameter Hole	51.13	
31 23 16 16-0043	VLF	Grout Fill, 30" Diameter Hole	60.25	
31 23 16 16-0044	VLF	Grout Fill, 36" Diameter Hole	69.62	
31 23 16 16-0045 Earth Fill, Compacted (31 23 16 16-0018)				
31 23 16 16-0046	VLF	Earth Fill, Up To 2-1/2" Diameter Hole.....	5.15	
31 23 16 16-0047	VLF	Earth Fill, 2-1/2" Diameter Hole	6.70	
31 23 16 16-0048	VLF	Earth Fill, 3" Diameter Hole	7.01	
31 23 16 16-0049	VLF	Earth Fill, 4" Diameter Hole	7.22	
31 23 16 16-0050	VLF	Earth Fill, 6" Diameter Hole	9.64	
31 23 16 16-0051	VLF	Earth Fill, 8" Diameter Hole	12.85	
31 23 16 16-0052	VLF	Earth Fill, 10" Diameter Hole	15.43	
31 23 16 16-0053	VLF	Earth Fill, 12" Diameter Hole	17.48	
31 23 16 16-0054	VLF	Earth Fill, 18" Diameter Hole	21.30	
31 23 16 16-0055	VLF	Earth Fill, 24" Diameter Hole	23.91	
31 23 16 16-0056	VLF	Earth Fill, 30" Diameter Hole	26.22	
31 23 16 16-0057	VLF	Earth Fill, 36" Diameter Hole	28.28	
31 23 16 26 Rock Removal (31 23 16)				
31 23 16 26-0001 Rock Breaking By Machine (31 23 16 26)				
Note: Excludes excavation of broken-up rock.				
31 23 16 26-0002	CY	Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone)	29.68	
31 23 16 26-0003	CY	Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	31.67	
31 23 16 26-0004	CY	Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	37.60	
31 23 16 33 Bulk Excavation (31 23 16)				
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for less than 500 CY excavation.				
31 23 16 33-0001 Excavation (31 23 16 33)				
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.				
31 23 16 33-0002	CY	Bulk Excavation by Dozer in Soil	11.57	
For Excavation In Light Material (Class A), Deduct			-1.45	
For Excavation In Heavy/Wet Material (Class C), Add			4.63	
For >1,000, Deduct			-1.74	
31 23 16 33-0003	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	6.29	
For Excavation In Light Material (Class A), Deduct			-0.79	
For Excavation In Heavy/Wet Material (Class C), Add			2.52	
For >1,000, Deduct			-0.94	
31 23 16 33-0004	CY	Bulk Excavation by Dozer in Loose Rock	14.24	
Note: Includes compacted aggregate				
For >1,000, Deduct			-2.14	
31 23 16 33-0005	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock	7.74	
Note: Includes compacted aggregate				
For >1,000, Deduct			-1.16	

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 23 16 33-0006	Spreading, Shaping And Rough Grading (31 23 16 33) Note: Imported or stockpiled material for bulk excavation.			
31 23 16 33-0007	CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine For >1,000, Deduct	7.14 -1.07		
31 23 16 33-0008	Cutting, Shaping and Rough Grading Of Existing Elevations (31 23 16 33)			
31 23 16 33-0009	CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine For >1,000, Deduct	7.94 -1.19		
31 23 16 33-0010	Relocating On Site Excavated Material From Excavation (31 23 16 33) Note: For bulk excavation.			
31 23 16 33-0011	CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300' For >1,000, Deduct	6.35 -0.95		
31 23 16 33-0012	CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500' For >1,000, Deduct	9.52 -1.43		
31 23 16 33-0013	CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000' For >1,000, Deduct	14.29 -2.14		
31 23 16 33-0014	CY Relocating On Site Excavated Material From Bulk Excavation >1,000' For >1,000, Deduct	19.05 -2.86		
31 23 16 33-0015	Finish Grading For Bulk Excavation (31 23 16 33)			
31 23 16 33-0016	SY Finish Grading for Bulk Excavation by Machine.....	0.79		
31 23 16 33-0017	Compaction Of Fill Or Subbase, Per Lift (31 23 16 33) Note: For bulk excavation. See CSI section 31 23 23 23-0001 for compaction water.			
31 23 16 33-0018	SY Compaction of Fill or Subbase for Bulk Excavation by Machine Note: Per Lift	0.80		
31 23 16 33-0019	Loading Excess Material For Removal From Excavation (31 23 16 33) Note: For bulk excavation. Includes handwork by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00-0043 for hauling.			
31 23 16 33-0020	CY Loading Excess Material For Removal From Bulk Excavation..... For >1,000, Deduct	6.33 -0.95		
31 23 16 36	Excavation for Building Foundations and Other Structures (31 23 16) Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.			
31 23 16 36-0001	Excavation (31 23 16 36) Note: For building foundations and other structures by machine. Includes stockpiling of excess materials on ground in reach of excavated area.			
31 23 16 36-0002	Excavation For Building Foundations And Other Structures By Skid-Steer Loader (31 23 16 36-0001)			
31 23 16 36-0003	CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	10.32 -1.29 4.13 10.32 7.74 4.13 1.55		
31 23 16 36-0004	CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	12.82 12.82 9.62 5.13 1.92		
31 23 16 36-0005	Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)			
31 23 16 36-0006	CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	7.56 -0.95 3.02 7.56 5.67 3.02 1.13		
31 23 16 36-0007	CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	8.99 8.99 6.74 3.60 1.35		



	Earthwork	31	
	Earth Moving	31 20	
	Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand (31 23 16 36-0001)		
Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil	138.79	
For Excavation In Light Material (Class A), Deduct	-17.35	
For Excavation In Heavy/Wet Material (Class C), Add	55.52	
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock.....	238.07	
Note: Includes compacted aggregate		
31 23 16 36-0011 Relocating On Site Excavated Stockpiled Material From Excavation (31 23 16 36)		
Note: For building foundations and other structures.		
31 23 16 36-0012 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >100' to 300'	6.35	
For Up To 20, Add	6.35	
For >20 To 50, Add	4.76	
For >50 To 250, Add	2.54	
For >250 To 500, Add	0.95	
31 23 16 36-0013 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >300' to 500'	9.52	
For Up To 20, Add	9.52	
For >20 To 50, Add	7.14	
For >50 To 250, Add	3.81	
For >250 To 500, Add	1.43	
31 23 16 36-0014 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >500' to 1,000'	14.29	
For Up To 20, Add	14.29	
For >20 To 50, Add	10.72	
For >50 To 250, Add	5.72	
For >250 To 500, Add	2.14	
31 23 16 36-0015 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >1,000'	19.05	
For Up To 20, Add	19.05	
For >20 To 50, Add	14.29	
For >50 To 250, Add	7.62	
For >250 To 500, Add	2.86	
31 23 16 36-0016 Backfilling (31 23 16 36)		
Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading each backfill lift.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	5.09	
For Up To 20, Add	5.09	
For >20 To 50, Add	3.82	
For >50 To 250, Add	2.04	
For >250 To 500, Add	0.76	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	5.85	
For Up To 20, Add	5.85	
For >20 To 50, Add	4.39	
For >50 To 250, Add	2.34	
For >250 To 500, Add	0.88	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand	66.08	
31 23 16 36-0020 Compaction Of Fill Or Subbase (31 23 16 36)		
Note: For building foundations and other structures. See CSI section 31 23 23-0001 for compaction water.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	12.76	
For Up To 20, Add	12.76	
For >20 To 50, Add	9.57	
For >50 To 250, Add	5.10	
For >250 To 500, Add	1.91	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	43.48	
31 23 16 36-0023 Grading For Building Foundations And Other Structures (31 23 16 36)		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine	1.37	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine	2.21	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand	12.86	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation (31 23 16 36)		
Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stockpiling. See CSI section 01 74 19 00- 0043 for hauling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	6.60	
For Up To 20, Add	6.60	
For >20 To 50, Add	4.95	
For >50 To 250, Add	2.64	
For >250 To 500, Add	0.99	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	101.77	

31	Earthwork
31 20	Earth Moving
31 23	Excavation and Fill



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 23 16 36-0030	Spread Excess Or Imported Material And Grade On Site (31 23 16 36)	
	Note: For building foundations and other structures.	
31 23 16 36-0031	CY Spread Excess Or Imported Material And Rough Grade On Site By Machine.....	3.69
	For Up To 20, Add	3.69
	For >20 To 50, Add	2.77
	For >50 To 250, Add	1.48
	For >250 To 500, Add	0.55
31 23 16 36-0032	CY Spread Excess Or Imported Material And Rough Grade On Site By Hand.....	56.17

31 23 19 Dewatering (31 23)

31 23 19 00-0001	Well Point Dewatering System (31 23 19)	
31 23 19 00-0002	Delivery, Installation And Removal Cost (31 23 19 00-0001)	
	Note: Priced by linear foot of header used.	
31 23 19 00-0003	LF Up To 100' In Length Well Point System Delivery, Installation And Removal.....	143.14
31 23 19 00-0004	LF >100' To 250' In Length Well Point System Delivery, Installation And Removal.....	78.73
31 23 19 00-0005	LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	71.57
31 23 19 00-0006	LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	64.41
31 23 19 00-0007	LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal.....	57.26
31 23 19 00-0008	LF >1,000' In Length Well Point System Delivery, Installation And Removal.....	50.10

31 23 19 00-0009 Well Point Dewatering System Rental (31 23 19 00-0001)

Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200' of header for four days - quantity should be 200'x4 or 800'). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.

31 23 19 00-0010	LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity)	2.28
	For >5 Days And <1 Month, Deduct	-0.50
	For >1 Month, Deduct	-0.64
31 23 19 00-0011	LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity)	1.33
	For >5 Days And <1 Month, Deduct	-0.29
	For >1 Month, Deduct	-0.37
31 23 19 00-0012	LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity)	0.95
	For >5 Days And <1 Month, Deduct	-0.21
	For >1 Month, Deduct	-0.27
31 23 19 00-0013	LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.70
	For >5 Days And <1 Month, Deduct	-0.15
	For >1 Month, Deduct	-0.20
31 23 19 00-0014	LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity)	0.63
	For >5 Days And <1 Month, Deduct	-0.14
	For >1 Month, Deduct	-0.18

31 23 19 00-0015 Well Point Dewatering System Operation Costs (31 23 19 00-0001)

Note: The quantity for operation shall be the total number of hours the well point system is operational.

31 23 19 00-0016	HR Operation Costs.....	132.70

31 23 23 Fill (31 23)

31 23 23 23 Compaction (31 23 23)

31 23 23 23-0001	Compaction Water, Water Truck And Operator (31 23 23 23)	
31 23 23 23-0002	MGL Compaction Water, Water Truck And Operator	292.56
	Note: Use this task in situations where earth fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per each 1,000 gallons of water)	

31 23 23 33 Flowable Fill (31 23 23)

31 23 23 33-0001 Flowable Fill (Fly Ash) Cement Backfill For Trenches (31 23 23 33)

Note: Includes compaction and restoration of final grade.

31 23 23 33-0002	CY Flowable Fill (Fly Ash) Cement Backfill for Trenches.....	150.25
	For Up To 20, Add	61.56
	For >20 To 50, Add	39.94
	For >50 To 250, Add	19.97
	For >500 To 1,000, Deduct	-10.81
	For >1,000, Deduct	-21.62

31 24 Embankments (31 20)

31 24 13 Roadway Embankments (31 24)



	Earthwork	31	
	Earth Moving	31 20	
	Embankments	31 24	

15

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
31 24 13 00-0001	Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13)	Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.		
31 24 13 00-0002	Cutting, Shaping And Rough Grading (31 24 13 00-0001)	Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.		
31 24 13 00-0003	Cutting, Shaping, And Rough Grading (31 24 13 00-0002)			
31 24 13 00-0004	CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil		7.94	
	For Up To 20, Add		7.94	
	For >20 To 50, Add		5.96	
	For >50 To 250, Add		3.18	
	For >250 To 500, Add		1.19	
	For >1,000, Deduct		-1.19	
31 24 13 00-0005	CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock		9.84	
	Note: Includes compacted aggregate			
	For Up To 20, Add		9.84	
	For >20 To 50, Add		7.38	
	For >50 To 250, Add		3.94	
	For >250 To 500, Add		1.48	
	For >1,000, Deduct		-1.48	
31 24 13 00-0006	Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)			
31 24 13 00-0007	SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope		7.11	
31 24 13 00-0008	SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope		9.26	
31 24 13 00-0009	Scarify Soil (31 24 13 00-0001)	Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010	CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine		7.35	
	For Up To 20, Add		3.68	
	For >20 To 50, Add		1.84	
	For >250 To 500, Deduct		-0.74	
	For >500, Deduct		-1.47	
31 24 13 00-0011	Relocating On Site Excavated Material (31 24 13 00-0001)			
31 24 13 00-0012	CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine		14.29	
	For Up To 20, Add		14.29	
	For >20 To 50, Add		10.72	
	For >50 To 250, Add		5.72	
	For >250 To 500, Add		2.14	
	For >1,000, Deduct		-2.14	
31 24 13 00-0013	CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine		19.05	
	For Up To 20, Add		19.05	
	For >20 To 50, Add		14.29	
	For >50 To 250, Add		7.62	
	For >250 To 500, Add		2.86	
	For >1,000, Deduct		-2.86	
31 24 13 00-0014	Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001)	Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015	CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine		8.73	
	For Up To 20, Add		8.73	
	For >20 To 50, Add		6.55	
	For >50 To 250, Add		3.49	
	For >250 To 500, Add		1.31	
	For >1,000, Deduct		-1.31	
31 24 13 00-0016	Grading (31 24 13 00-0001)	Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017	SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine		0.86	
31 24 13 00-0018	SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine		1.15	
31 24 13 00-0019	LF Finish Grade For Curb		1.29	
31 24 13 00-0020	LF Finish Grade For Curb And Gutter		1.58	
31 24 13 00-0021	Compaction Of Fill Or Subbase (31 24 13 00-0001)	Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		

31	Earthwork
31 20	Earth Moving
31 24	Embankments



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0022 SY Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.80	
For Up To 250, Add	0.80	
For >250 To 500, Add	0.60	
For >500 To 1,000, Add	0.32	
For >5,000, Deduct	-0.12	
31 24 13 00-0023 Loading Excess Material For Removal From Excavation (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine. Includes handwork by laborer for clean-up.		
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	6.33	
For Up To 20, Add	6.33	
For >20 To 50, Add	4.75	
For >50 To 250, Add	2.53	
For >250 To 500, Add	0.95	
For >1,000, Deduct	-0.95	
31 25 Erosion and Sedimentation Controls (31 20)		
31 25 14 Stabilization Measures for Erosion and Sedimentation Control (31 25)		
31 25 14 13 Hydraulically-Applied Erosion Control (31 25 14)		
31 25 14 13-0001 Bonded Fiber Matrix (31 25 14 13)		
31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	65.50	
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied	60.10	
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied	55.52	
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied	52.91	
31 25 14 16 Rolled Erosion Control Mats and Blankets (31 25 14)		
Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)		
31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)		
31 25 14 16-0003 SY S75 Single Net Erosion Control Blanket	3.30	
Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004 SY S75BN Single Net Erosion Control Blanket	4.28	
Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005 SY Curlex 1, Single Net Erosion Control Blanket	3.13	
Note: As manufactured by American Excelsior		
31 25 14 16-0006 SY Curlex 1, Single Net Erosion Control Blanket	3.30	
Note: As manufactured by American Green.		
31 25 14 16-0007 SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting	2.92	
31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)		
31 25 14 16-0009 SY S150 Double Net Erosion Control Blanket	4.26	
Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010 SY S150 BN Double Net Erosion Control Blanket	5.79	
Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011 SY Curlex II, Double Net Erosion Control Blanket, Natural	3.54	
Note: As manufactured by American Excelsior.		
31 25 14 16-0012 SY Curlex II, Double Net Erosion Control Blanket, Green	3.71	
Note: As manufactured by American Excelsior.		
31 25 14 16-0013 SY Enforcer Double Net Erosion Control Blanket	3.97	
Note: As manufactured by American Excelsior.		
31 25 14 16-0014 Turf Reinforcement Mats (TRM) (31 25 14 16-0001)		
Note: Permanent, UV stabilized.		
31 25 14 16-0015 SY P300 Permanent Polypropylene Turf Reinforcement Mat	15.02	
Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016 SY C350 Permanent Turf Reinforcement Mat	13.81	
Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017 SY Recyclex TRM, Permanent Turf Reinforcement Mat	17.71	
Note: As manufactured by American Excelsior, 100% recycled		
31 25 14 16-0018 Jute Mesh Erosion Control Blankets (31 25 14 16-0001)		
31 25 14 16-0019 SY Jute Mesh, Open Uniform Weave	4.83	
31 25 14 16-0020 Revegetation Mat (31 25 14 16-0001)		
31 25 14 16-0021 SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber	11.72	
Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.		



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Earth Moving		31 20	
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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
31 25 14 16-0022	SY	Webbed Revegetation Mat, Polypropylene Fiber.....	16.79	
Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.				
31 25 14 16-0023	Erosion Control Rolls (31 25 14 16-0001)			
31 25 14 16-0024	SY	Erosion Control Rolls, Mirafi 140N.....	2.47	
31 25 14 16-0025	SY	Erosion Control Rolls, Amoco 4547	2.52	
31 25 14 23	Stabilization Measures for Erosion Control(31 25 14)			
See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.				
31 25 14 23-0001	Sand Bags (31 25 14 23)			
Note: Bags filled on site with delivered material. Includes material and placement of bags.				
31 25 14 23-0002	BAG	50 Lb. Capacity Sand Bag With Sand.....	6.90	2.92
For >2,500 To 5,000, Deduct			-0.58	
For >5,000, Deduct			-1.27	
31 25 14 23-0003	BAG	75 Lb. Capacity Sand Bag With Sand.....	8.90	3.64
For >2,500 To 5,000, Deduct			-0.73	
For >5,000, Deduct			-1.62	
31 25 14 23-0004	BAG	100 Lb. Capacity Sand Bag With Sand.....	11.22	4.35
For >2,500 To 5,000, Deduct			-0.87	
For >5,000, Deduct			-1.99	
31 25 14 23-0005	BAG	125 Lb. Capacity Sand Bag With Sand.....	13.80	5.43
For >2,500 To 5,000, Deduct			-1.09	
For >5,000, Deduct			-2.47	
31 25 14 23-0006	BAG	150 Lb. Capacity Sand Bag With Sand.....	16.81	6.51
For >2,500 To 5,000, Deduct			-1.30	
For >5,000, Deduct			-2.99	
31 25 14 23-0007	BAG	175 Lb. Capacity Sand Bag With Sand.....	19.60	7.41
For >2,500 To 5,000, Deduct			-1.48	
For >5,000, Deduct			-3.44	
31 25 14 23-0008	BAG	2,000 Lb. Capacity Sand Bag With Sand.....	158.86	51.93
For >2,500 To 5,000, Deduct			-9.67	
For >5,000, Deduct			-25.56	
31 25 14 23-0009	BAG	3,000 Lb. Capacity Sand Bag With Sand.....	204.04	57.13
For >2,500 To 5,000, Deduct			-10.64	
For >5,000, Deduct			-31.04	
31 25 14 23-0010	Gravel Bags (31 25 14 23)			
Note: Bags filled on site with delivered material. Includes material and placement of bags.				
31 25 14 23-0011	BAG	30 Lb. Capacity Gravel Bag With Gravel	6.54	1.94
For >2,500 To 5,000, Deduct			-0.39	
For >5,000, Deduct			-1.04	
31 25 14 23-0012	BAG	50 Lb. Capacity Gravel Bag With Gravel	11.79	2.92
For >2,500 To 5,000, Deduct			-0.58	
For >5,000, Deduct			-1.76	
31 25 14 23-0013	Floating Turbidity Curtain (31 25 14 23)			
Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6" x 6", 13.5 lb/ft. buoyancy in fresh water and 14.4 lb/ft buoyancy in saltwater.				
31 25 14 23-0014	LF	3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	27.79	
For Type 1, Deduct			-4.23	
For 13 Oz PVC Fabric, Type 2, Deduct			-2.58	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add			3.13	
31 25 14 23-0015	LF	4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	30.11	
For Type 1, Deduct			-4.66	
For 13 Oz PVC Fabric, Type 2, Deduct			-2.84	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add			3.44	
31 25 14 23-0016	LF	5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	33.30	
For Type 1, Deduct			-5.28	
For 13 Oz PVC Fabric, Type 2, Deduct			-3.21	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add			3.90	
31 25 14 23-0017	LF	6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	36.02	
For Type 1, Deduct			-5.79	
For 13 Oz PVC Fabric, Type 2, Deduct			-3.52	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add			4.28	
31 25 14 23-0018	LF	7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	37.80	
For Type 1, Deduct			-6.07	
For 13 Oz PVC Fabric, Type 2, Deduct			-3.69	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add			4.49	
31 25 14 23-0019	LF	8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	39.59	
For Type 1, Deduct			-6.35	
For 13 Oz PVC Fabric, Type 2, Deduct			-3.87	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add			4.70	
31 25 14 23-0020	LF	9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	41.67	
For Type 1, Deduct			-6.69	
For 13 Oz PVC Fabric, Type 2, Deduct			-4.07	
For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add			4.95	

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0021	LF		10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	44.50	
			<i>For Type 1, Deduct</i>	-7.20	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.38	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	5.32	
31 25 14 23-0022	LF		12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	46.76	
			<i>For Type 1, Deduct</i>	-7.57	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.61	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	5.59	
31 25 14 23-0023	LF		13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	49.78	
			<i>For Type 1, Deduct</i>	-8.10	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-4.93	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	5.99	
31 25 14 23-0024	LF		14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	52.60	
			<i>For Type 1, Deduct</i>	-8.58	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.22	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	6.34	
31 25 14 23-0025	LF		15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	55.33	
			<i>For Type 1, Deduct</i>	-9.03	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-5.50	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	6.68	
31 25 14 23-0026	LF		16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	60.18	
			<i>For Type 1, Deduct</i>	-9.97	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.07	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	7.37	
31 25 14 23-0027	LF		17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	63.12	
			<i>For Type 1, Deduct</i>	-10.45	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.36	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	7.72	
31 25 14 23-0028	LF		18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	65.96	
			<i>For Type 1, Deduct</i>	-10.90	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.63	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	8.05	
31 25 14 23-0029	LF		19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	68.98	
			<i>For Type 1, Deduct</i>	-11.38	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-6.93	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	8.41	
31 25 14 23-0030	LF		20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	71.91	
			<i>For Type 1, Deduct</i>	-11.83	
			<i>For 13 Oz PVC Fabric, Type 2, Deduct</i>	-7.20	
			<i>For 22 Oz PVC Fabric, Type 2 Heavy-Duty, Add</i>	8.74	
31 25 14 23-0031			Turbidity Curtain Anchors (31 25 14 23)		
31 25 14 23-0032	EA		14 Lb., Turbidity Curtain Anchor System.....	737.66	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0033	EA		25 Lb., Turbidity Curtain Anchor System.....	1,010.20	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0034	EA		40 Lb., Turbidity Curtain Anchor System.....	1,283.93	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0035	EA		65 Lb., Turbidity Curtain Anchor System.....	1,678.13	
			Note: Includes anchor, anchor chain, and marker buoy and rope.		
31 25 14 23-0036			Filter Bags (31 25 14 23)		
31 25 14 23-0037			Non-Woven Filter Bags (31 25 14 23-0036)		
31 25 14 23-0038	EA		6' x 15' Non-Woven Filter Bag.....	257.48	
31 25 14 23-0039	EA		13' x 15' Non-Woven Filter Bag.....	372.59	
31 25 14 23-0040	EA		15' x 15' Non-Woven Filter Bag.....	428.35	
31 25 14 23-0041			Monofilament Filter Bags (31 25 14 23-0036)		
31 25 14 23-0042	EA		5' x 15' Monofilament Filter Bag.....	267.71	
31 25 14 23-0043	EA		10' x 15' Monofilament Filter Bag.....	370.66	
31 25 14 23-0044			Cable Articulating Concrete Block (31 25 14 23)		
			Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 25 14 23-0045	SF		4.75" Open Cell Articulated Concrete Block With Earth Backfill.....	42.52	
			<i>For Up To 500, Add</i>	9.69	
			<i>For >500 To 1,000, Add</i>	5.44	
31 25 14 23-0046	SF		6" Open Cell Articulated Concrete Block With Earth Backfill.....	48.41	
			<i>For Up To 500, Add</i>	10.97	
			<i>For >500 To 1,000, Add</i>	6.13	
31 25 14 23-0047	SF		7.5" Open Cell Articulated Concrete Block With Earth Backfill.....	55.20	
			<i>For Up To 500, Add</i>	12.46	
			<i>For >500 To 1,000, Add</i>	6.94	
31 25 14 23-0048	SF		9" Open Cell Articulated Concrete Block With Earth Backfill.....	62.17	
			<i>For Up To 500, Add</i>	14.01	
			<i>For >500 To 1,000, Add</i>	7.80	



		Earthwork	31
		Earth Moving	31 20
		Erosion and Sedimentation Controls	31 25

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0049 SF 4.75" Closed Cell Articulated Concrete Block..... For Up To 500, Add For >500 To 1,000, Add	45.35 10.25 5.72	
31 25 14 23-0050 SF 6" Closed Cell Articulated Concrete Block..... For Up To 500, Add For >500 To 1,000, Add	51.80 11.65 6.47	
31 25 14 23-0051 SF 7.5" Closed Cell Articulated Concrete Block..... For Up To 500, Add For >500 To 1,000, Add	59.22 13.26 7.34	
31 25 14 23-0052 SF 9" Closed Cell Articulated Concrete Block..... For Up To 500, Add For >500 To 1,000, Add	66.77 14.93 8.26	
31 25 14 26 Stabilization Measures for Sedimentation Control (31 25 14)		
31 25 14 26-0001 Silt Fences And Dike Barriers (31 25 14 26) Note: Includes stakes and embedding.		
31 25 14 26-0002 Silt Fences 2' High (31 25 14 26-0001) See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0003 LF 2' High Silt Fence with Stakes at 4' On Center	5.06	
31 25 14 26-0004 LF 2' High Silt Fence with Stakes at 6' On Center	3.91	
31 25 14 26-0005 LF 2' High Silt Fence with Stakes at 8' On Center	2.73	
31 25 14 26-0006 LF 2' High Silt Fence with Stakes at 10' On Center	2.32	
31 25 14 26-0007 Silt Fences 3' High (31 25 14 26-0001) See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0008 LF 3' High Silt Fence with Stakes at 4' On Center	5.98	
31 25 14 26-0009 LF 3' High Silt Fence with Stakes at 6' On Center	4.64	
31 25 14 26-0010 LF 3' High Silt Fence with Stakes at 8' On Center	3.22	
31 25 14 26-0011 LF 3' High Silt Fence with Stakes at 10' On Center	2.63	
31 25 14 26-0012 Silt Dike Barrier (31 25 14 26-0001)		
31 25 14 26-0013 LF Silt Dike Barrier With Stakes.....	3.95	
31 25 14 26-0014 Silt Fences Removal (31 25 14 26-0001)		
31 25 14 26-0015 LF Removal Of Silt Fence And Stakes.....	0.92	
31 25 14 26-0016 Hay And Straw Bales (31 25 14 26) Note: Includes trench for placement, and stakes.		
31 25 14 26-0017 LF Place Sterilized Straw Bales.....	5.28	
31 25 14 26-0018 LF Place Hay Bales	4.88	
31 25 14 26-0019 EA Place And Remove Hay Bales, Includes Securing In Ground With Stakes	14.63	
31 25 14 26-0020 LF Removal Of Hay Or Straw Bales	1.65	
31 25 14 26-0021 Sediment Logs (Degradable) (31 25 14 26)		
31 25 14 26-0022 Sediment Logs (Degradable) (31 25 14 26-0021) Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0023 LF 9" Sediment Fiber Roll Log	6.14	
31 25 14 26-0024 LF 12" Sediment Fiber Roll Log	7.06	
31 25 14 26-0025 LF 20" Sediment Fiber Roll Log	10.70	
31 25 14 26-0026 Wattles (Degradable) With UV Stabilized Synthetic Netting (31 25 14 26-0021) Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0027 EA Wattles (Sterile Straw Filled Rolls), 8" x 25'.....	121.30	
31 25 14 26-0028 EA Wattles (Sterile Straw Filled Rolls), 9" x 25'.....	126.56	
31 25 14 26-0029 EA Wattles (Sterile Straw Filled Rolls), 12" x 20'.....	132.56	
31 25 14 26-0030 EA Wattles (Sterile Straw Filled Rolls), 20" x 10'.....	137.23	
31 25 14 26-0031 Fiber Roll (CALTRANS Type 1) (31 25 14 26) Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0032 LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1..... For >1,000 To 10,000, Deduct For >10,000, Deduct	6.57 -0.81 -1.36	
31 25 14 26-0033 LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1..... For >1,000 To 10,000, Deduct For >10,000, Deduct	6.83 -0.82 -1.38	
31 25 14 26-0034 LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1..... For >1,000 To 10,000, Deduct For >10,000, Deduct	8.82 -0.98 -1.66	

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 25 14 26-0035	Fiber Roll (CALTRANS Type 2) ^(31 25 14 26)		
	Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0036	LF 8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.16	
	For >1,000 To 10,000, Deduct	-0.60	
	For >10,000, Deduct	-1.01	
31 25 14 26-0037	LF 9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.61	
	For >1,000 To 10,000, Deduct	-0.64	
	For >10,000, Deduct	-1.08	
31 25 14 26-0038	LF 12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	6.94	
	For >1,000 To 10,000, Deduct	-0.70	
	For >10,000, Deduct	-1.19	
31 25 14 26-0039	Inlet Protection Sediment Bags ^(31 25 14 26)		
	Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0040	EA 2' x 2' x 3' Inlet Protection Sediment Bag.....	69.20	
31 25 14 26-0041	EA 2' x 3' x 3' Inlet Protection Sediment Bag.....	80.45	
31 25 14 26-0042	EA 2' x 4' x 3' Inlet Protection Sediment Bag.....	88.19	
31 25 14 26-0043	Clean Sediment Logs/Wattles ^(31 25 14 26)		
	Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0044	EA Clean Sediment Logs/Wattles.....	92.54	

31 30 Earthwork Methods ⁽³¹⁾**31 31 Soil Treatment ^(31 30)****31 31 16 Termite Control ^(31 31)****31 31 16 13 Chemical Termite Control ^(31 31 16)****31 31 16 13-0001 Commercial Use ^(31 31 16 13)**

31 31 16 13-0002	SF Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.96	
31 31 16 13-0003	SF Termite Pretreatment, Commercial Slab And Walls.....	1.37	

31 31 16 13-0004 Residential Use ^(31 31 16 13)

31 31 16 13-0005	SF Termite Pretreatment, Residential General Spraying Walls And Slab	1.43	
31 31 16 13-0006	SF Termite Treatment, Existing Residential Structure.....	1.57	

31 31 19 Vegetation Control ^(31 31)**31 31 19 13 Chemical Vegetation Control ^(31 31 19)****31 31 19 13-0001 Soil Sterilants ^(31 31 19 13)**

31 31 19 13-0002	MSF Soil Sterilant.....	33.96	
	Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
	For >45 To 90, Deduct	-0.50	
	For >90 To 225, Deduct	-2.70	
	For >225, Deduct	-3.70	

31 32 Soil Stabilization ^(31 30)**31 32 13 Soil Mixing Stabilization ^(31 32)****31 32 13 16 Cement Soil Stabilization ^(31 32 13)****31 32 13 16-0001 Soil Cement Course ^(31 32 13 16)**

Note: Includes soil material, adding and mixing of cement, water and calcium chloride (if required), shaping, finishing and final compaction. Excludes cement, calcium chloride, foundation preparation, compaction water and additional surface treatments.

31 32 13 16-0002	CY Compacted Soil Cement Course, Material mixed in Central Plant.....	86.66	
31 32 13 16-0003	CY Compacted Soil Cement Course, Material mixed in Traveling Pugmill. Cement.....	91.31	
31 32 13 16-0004	LB Cement, Per Unit Of Measure.....	0.05	
31 32 13 16-0005	LB Flake Calcium Chloride, Per Unit Of Measure	1.09	
31 32 13 16-0006	EA Mobilize And Demobilize Traveling Pugmill	150.00	

31 32 13 16-0007 Cementitious Soil Binder ^(31 32 13 16)

31 32 13 16-0008	CY Cementitious Soil Binder, 4% Cement Mix By Volume.....	42.06	
31 32 13 16-0009	CY Cementitious Soil Binder, 6% Cement Mix By Volume	48.30	
31 32 13 16-0010	CY Cementitious Soil Binder, 9% Cement Mix By Volume	58.57	
31 32 13 16-0011	CY Cementitious Soil Binder, 12% Cement Mix By Volume	68.68	



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	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 13 19**Lime Soil Stabilization** (31 32 13)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 32 13 19-0001**Lime Slurry** (31 32 13 19)

31 32 13 19-0002	LCY	Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume.....	37.37
31 32 13 19-0003	TON	Cement Stabilized Base Material.....	121.65
31 32 13 19-0004	CWT	Lime For Soil Stabilization	19.33
Note: Excludes the cost for spreading or backfilling			
31 32 13 19-0005	LCY	Roller, Grader - Lime Stabilization.....	19.27
31 32 13 19-0006	LCY	Roller, Grader - Cement Stabilization	4.51

31 32 13 19-0007**Lime Stabilized Subgrade** (31 32 13 19)

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).

31 32 13 19-0008	SY	6" Thick Lime Stabilized Subgrade, 25 Lb.	12.46
		For 4% Lime Instead Of 5%, Deduct	-0.34
		For 6% Lime Instead Of 5%, Add	0.34
31 32 13 19-0009	SY	7" Thick Lime Stabilized Subgrade, 29 Lb.	14.45
		For 4% Lime Instead Of 5%, Deduct	-0.40
		For 6% Lime Instead Of 5%, Add	0.40
31 32 13 19-0010	SY	8" Thick Lime Stabilized Subgrade, 33 Lb.	16.49
		For 4% Lime Instead Of 5%, Deduct	-0.45
		For 6% Lime Instead Of 5%, Add	0.45
31 32 13 19-0011	SY	10" Thick Lime Stabilized Subgrade, 41 Lb./SY	20.60
		For 4% Lime Instead Of 5%, Deduct	-0.56
		For 6% Lime Instead Of 5%, Add	0.56
		For >5,000 SY, Deduct	-1.38
31 32 13 19-0012	SY	12" Thick Lime Stabilized Subgrade, 50 Lb./SY	24.72
		For 4% Lime Instead Of 5%, Deduct	-0.68
		For 6% Lime Instead Of 5%, Add	0.68
		For >5,000 SY, Deduct	-1.66
31 32 13 19-0013	SY	14" Thick Lime Stabilized Subgrade, 58 Lb./SY	28.81
		For 4% Lime Instead Of 5%, Deduct	-0.79
		For 6% Lime Instead Of 5%, Add	0.79
		For >5,000 SY, Deduct	-1.93
31 32 13 19-0014	SY	16" Thick Lime Stabilized Subgrade, 66 Lb./SY	32.94
		For 4% Lime Instead Of 5%, Deduct	-0.90
		For 6% Lime Instead Of 5%, Add	0.90
		For >5,000 SY, Deduct	-2.21
31 32 13 19-0015	SY	18" Thick Lime Stabilized Subgrade, 74 Lb./SY	37.09
		For 4% Lime Instead Of 5%, Deduct	-1.02
		For 6% Lime Instead Of 5%, Add	1.02
		For >5,000 SY, Deduct	-2.49

31 32 13 19-0016**Hydrated Lime Stabilized Subgrade** (31 32 13 19)

Note: Includes scarifying, adding and mixing of hydrated lime and water, light sealing, curing, secondary mixing, shaping, finishing and final compaction. Excludes hydrated lime, foundation preparation, compaction water and additional surface treatments.

31 32 13 19-0017	CY	Compacted Hydrated Lime Stabilized Subgrade	74.73
31 32 13 19-0018	LB	Hydrated Lime	1.73

31 32 13 29**Liquid Soil Stabilization** (31 32 13)

31 32 13 29-0001	GAL	Polyacrylamide And Calcium Solution	2.90

31 32 19**Geosynthetic Soil Stabilization and Layer Separation** (31 32)**31 32 19 13****Geogrid Soil Stabilization** (31 32 19)**31 32 19 13-0001****Geogrid Fabrics** (31 32 19 13)

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications. Includes stakes.

31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150).....	5.43
		For Up To 50, Add	1.20
		For >50 To 150, Add	0.89
		For >150 To 250, Add	0.58
		For >250 To 500, Add	0.29
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300).....	6.20
		For Up To 50, Add	1.36
		For >50 To 150, Add	1.01
		For >150 To 250, Add	0.66
		For >250 To 500, Add	0.33
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500).....	6.77
		For Up To 50, Add	1.48
		For >50 To 150, Add	1.10
		For >150 To 250, Add	0.72
		For >250 To 500, Add	0.36

31 Earthwork**31 30 Earthwork Methods****31 32 Soil Stabilization**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0005	SY		12.6 Ounce/SY, 7,315 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800).....	9.74	
			For Up To 50, Add	2.08	
			For >50 To 150, Add	1.55	
			For >150 To 250, Add	1.02	
			For >250 To 500, Add	0.51	
31 32 19 13-0006	SY		14.1 Ounce/SY, 9,790 Lb./FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000).....	11.15	
			For Up To 50, Add	2.37	
			For >50 To 150, Add	1.76	
			For >150 To 250, Add	1.16	
			For >250 To 500, Add	0.58	
31 32 19 13-0007	SY		4.3 Ounce/SY, 1,658 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20)	5.52	
			For Up To 50, Add	1.22	
			For >50 To 150, Add	0.90	
			For >150 To 250, Add	0.59	
			For >250 To 500, Add	0.30	
31 32 19 13-0008	SY		5.9 Ounce/SY, 2,192 Lb./FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30)	8.14	
			For Up To 50, Add	1.75	
			For >50 To 150, Add	1.30	
			For >150 To 250, Add	0.85	
			For >250 To 500, Add	0.43	
31 32 19 16 Geotextile Soil Stabilization (31 32 19)					
31 32 19 16-0001 Nonwoven Polypropylene Geotextiles (31 32 19 16)					
Note: For drainage, filtration and separation. Includes stakes.					
31 32 19 16-0002	SY		3.0 Ounce/SY, 40 Mil, 80 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS)	1.69	
			For Up To 50, Add	0.38	
			For >50 To 150, Add	0.28	
			For >150 To 250, Add	0.18	
			For >250 To 500, Add	0.09	
31 32 19 16-0003	SY		3.5 Ounce/SY, 50 Mil, 95 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS)	1.81	
			For Up To 50, Add	0.41	
			For >50 To 150, Add	0.30	
			For >150 To 250, Add	0.20	
			For >250 To 500, Add	0.10	
31 32 19 16-0004	SY		4.0 Ounce/SY, 60 Mil, 115 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS)	1.96	
			For Up To 50, Add	0.44	
			For >50 To 150, Add	0.32	
			For >150 To 250, Add	0.21	
			For >250 To 500, Add	0.11	
31 32 19 16-0005	SY		4.5 Ounce/SY, 55 Mil, 120 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS)	2.11	
			For Up To 50, Add	0.47	
			For >50 To 150, Add	0.35	
			For >150 To 250, Add	0.23	
			For >250 To 500, Add	0.11	
31 32 19 16-0006	SY		6.0 Ounce/SY, 70 Mil, 160 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS)	2.51	
			For Up To 50, Add	0.55	
			For >50 To 150, Add	0.41	
			For >150 To 250, Add	0.27	
			For >250 To 500, Add	0.13	
31 32 19 16-0007	SY		7.0 Ounce/SY, 85 Mil, 180 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS)	2.93	
			For Up To 50, Add	0.64	
			For >50 To 150, Add	0.48	
			For >150 To 250, Add	0.31	
			For >250 To 500, Add	0.16	
31 32 19 16-0008	SY		8.0 Ounce/SY, 85 Mil, 205 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS)	3.23	
			For Up To 50, Add	0.70	
			For >50 To 150, Add	0.52	
			For >150 To 250, Add	0.34	
			For >250 To 500, Add	0.17	
31 32 19 16-0009	SY		10 Ounce/SY, 115 Mil, 250 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS)	3.99	
			For Up To 50, Add	0.85	
			For >50 To 150, Add	0.63	
			For >150 To 250, Add	0.42	
			For >250 To 500, Add	0.21	
31 32 19 16-0010	SY		16 Ounce/SY, 175 Mil, 425 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Fabric	7.04	
			For Up To 50, Add	1.46	
			For >50 To 150, Add	1.09	
			For >150 To 250, Add	0.72	
			For >250 To 500, Add	0.36	

31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)
Note: Includes stakes.



	Earthwork	31	31
	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0012	SY	200 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55)	2.45	
		For Up To 50, Add	0.54	
		For >50 To 150, Add	0.40	
		For >150 To 250, Add	0.26	
		For >250 To 500, Add	0.13	
31 32 19 16-0013	SY	315 Lb. Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66)	3.44	
		For Up To 50, Add	0.73	
		For >50 To 150, Add	0.55	
		For >150 To 250, Add	0.36	
		For >250 To 500, Add	0.18	
31 32 19 16-0014	SY	4 To 6% Open Area, 370 x 250 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%)	6.07	
		For Up To 50, Add	1.27	
		For >50 To 150, Add	0.95	
		For >150 To 250, Add	0.63	
		For >250 To 500, Add	0.31	
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 Lb. Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%)	5.92	
		For Up To 50, Add	1.24	
		For >50 To 150, Add	0.92	
		For >150 To 250, Add	0.61	
		For >250 To 500, Add	0.31	
31 32 19 16-0016	SY	6.9 Oz/SY, 250 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF)	5.17	
		For Up To 50, Add	1.09	
		For >50 To 150, Add	0.81	
		For >150 To 250, Add	0.54	
		For >250 To 500, Add	0.27	
31 32 19 16-0017	SY	9.1 Oz/SY, 333 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF)	5.53	
		For Up To 50, Add	1.16	
		For >50 To 150, Add	0.87	
		For >150 To 250, Add	0.57	
		For >250 To 500, Add	0.29	
31 32 19 16-0018	SY	12.1 Oz/SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF)	7.07	
		For Up To 50, Add	1.47	
		For >50 To 150, Add	1.10	
		For >150 To 250, Add	0.73	
		For >250 To 500, Add	0.36	
31 32 19 16-0019	SY	12.1 Oz/SY, 400 Lb./IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF)	10.09	
		For Up To 50, Add	2.07	
		For >50 To 150, Add	1.55	
		For >150 To 250, Add	1.03	
		For >250 To 500, Add	0.51	
31 32 19 16-0020		Geomembranes (31 32 19 16)		
		Note: Includes stakes.		
31 32 19 16-0021		Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.49	
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	1.71	
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.08	
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.50	
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	2.86	
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.13	
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.40	
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	3.75	
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics)	4.09	
31 32 19 16-0031		High-Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0032	SF	20 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.14	
31 32 19 16-0033	SF	30 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.02	
31 32 19 16-0034	SF	40 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.13	
31 32 19 16-0035	SF	50 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.60	
31 32 19 16-0036	SF	60 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.33	
31 32 19 16-0037	SF	80 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.54	
31 32 19 16-0038	SF	100 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	1.76	
31 32 19 16-0039	SF	120 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.85	
31 32 19 16-0040	SF	140 Mil High-Density Polyethylene (HDPE) Membrane (US Fabrics)	2.94	
31 32 19 16-0041		Rock Slope Protection Fabric (Monterey County) (31 32 19 16)		
31 32 19 16-0042	SY	Rock Slope Protection Fabric, Drainage Outlet (Monterey County)	12.94	
31 32 19 26		Geoweb Cellular Confinement System (31 32 19)		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001		Geoweb Cellular Confinement System (31 32 19 26)		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 26-0002 SF 4" Geoweb Cellular Confinement System (Presto Geosystems) <i>For >20,000, Deduct</i> <i>For >2:1 Slope, Add</i>	7.83 -0.19 1.32	
31 32 19 26-0003 SF 6" Geoweb Cellular Confinement System (Presto Geosystems) <i>For >20,000, Deduct</i> <i>For >2:1 Slope, Add</i>	9.55 -0.28 1.32	
31 32 19 26-0004 SF 8" Geoweb Cellular Confinement System (Presto Geosystems) <i>For >20,000, Deduct</i> <i>For >2:1 Slope, Add</i>	11.60 -0.38 1.32	
31 32 36 Soil Nailing (31 32)		
31 32 36 11 Soil Nailing Stabilization (31 32 36)		
31 32 36 11-0001 Landslide and Slip-Out Stabilization (31 32 36 11) Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 11-0002 BioWall® (31 32 36 11-0001) Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ½(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0003 SF BioWall® Construction	25.00	
31 32 36 11-0004 Green Terra Mesh (31 32 36 11-0001) Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0005 EA Green Terra Mesh	635.25	
31 32 36 11-0006 GeoSynthetically Confined Soil™ (GCS®) Components (31 32 36 11-0001) Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2,400 lb/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or ¾ in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of the See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0007 SF GeoSynthetically Confined Soil™ (GCS®) Wall Construction	23.75	
31 32 36 11-0008 EA GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10" x 120")	108.50	
31 32 36 11-0009 EA GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8" x 8" x 16")	6.50	



		Earthwork	31
		Earthwork Methods	31 30
		Soil Stabilization	31 32

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
31 32 36 11-0010	SF	GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile.....		0.75
31 32 36 11-0011		Turf (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0012		Permanent Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.		
31 32 36 11-0013	SF	Permanent Turf Reinforcement Mat.....		1.50
		Note: sold per square face foot		
31 32 36 11-0014		Biodegradable Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.		
31 32 36 11-0015	SF	Biodegradable Turf Reinforcement Mat.....		0.75
		Note: sold per square face foot		
31 32 36 11-0016		Shotcrete or Gunite (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0017		Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying		
31 32 36 11-0018	SFI	Wet-Mix Reinforced Shotcrete.....		5.50
		Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 11-0019		Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6	
31 32 36 11-0020	SFI	Dry-Mix Reinforced Gunite.....	8.50
		Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	
31 32 36 11-0021		Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016)	
31 32 36 11-0022	SFI	Steel Fiber Reinforcement.....	1.25
		Note: sold per inch thickness over one square face foot of area	
31 32 36 11-0023		Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 11-0024		Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0023) Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.	
31 32 36 11-0025	SF	High Capacity Diamond Mesh	11.00
		Note: sold per square face foot	
31 32 36 11-0026	SF	Double Twist Wire Mesh	13.75
		Note: sold per square face foot	
31 32 36 11-0027		Steel Plates (31 32 36 11-0023)	
31 32 36 11-0028	EA	Galvanized Steel Plates (8x8).....	35.00
31 32 36 11-0029	EA	Galvanized Steel Plates (10x10).....	54.75
31 32 36 11-0030	EA	Galvanized Steel Plates (12x12).....	78.75
31 32 36 11-0031	EA	Epoxy Coated Steel Plates (8x8).....	76.00
31 32 36 11-0032	EA	Epoxy Coated Steel Plates (10x10).....	89.25
31 32 36 11-0033	EA	Epoxy Coated Steel Plates (12x12).....	105.25



		Earthwork	31	15
		Earthwork Methods	31 30	
		Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 11-0034**Drilled Horizontal Drains** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0035	LF	Drilled PVC Horizontal Drains (up to 2" Diameter).....	26.00
31 32 36 11-0036	LF	Stripdrain - 6" Wide.....	3.25
31 32 36 11-0037	LF	Stripdrain - 12" Wide.....	4.00
31 32 36 11-0038	LF	PVC Drain Collector Pipe System.....	26.75

31 32 36 11-0039**Rockfall Stabilization** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0040	SF	Scaling.....	3.75
31 32 36 11-0041	SF	Trim Blasting.....	155.00
31 32 36 11-0042	SY	Slope Drape - Double Twist Wire Mesh.....	45.00
31 32 36 11-0043	SY	Slope Drape - Cable Net.....	135.00
31 32 36 11-0044	SY	Slope Drape - Tecco Mesh (4mm).....	135.00
31 32 36 11-0045	LF	Temporary Rockfall Barrier.....	500.00
31 32 36 11-0046	LF	Low Reach Drilling (<25 feet).....	25.00
31 32 36 11-0047	LF	High Reach Drilling (>25 feet).....	45.00
31 32 36 11-0048	LF	Limited Access Drilling.....	100.00
31 32 36 11-0049	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	18.50
31 32 36 11-0050	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated).....	15.25
31 32 36 11-0051	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized).....	23.25
31 32 36 11-0052	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated).....	17.25
31 32 36 11-0053	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized).....	23.50
31 32 36 11-0054	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated).....	18.75
31 32 36 11-0055	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized).....	26.50
31 32 36 11-0056	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0057	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	29.25
31 32 36 11-0058	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0059	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	34.50
31 32 36 11-0060	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated).....	31.75
31 32 36 11-0061	EA	Rock Anchor Testing	825.00

31 32 36 11-0062**Mobilization / Demobilization** (31 32 36 11-0001)

31 32 36 11-0063	EA	Mobilization - In State	10,000.00
31 32 36 11-0064	EA	Mobilization - Out Of State.....	25,000.00
31 32 36 11-0065	EA	Mobilization - Specialty Equipment Adder	9,800.00

31 32 36 11-0066**Daily Crew Rates (DCR)** (31 32 36 11-0001)

31 32 36 11-0067	DAY	Soils Stabilization Crew - DCR , Per Workday.....	13,150.00
31 32 36 11-0068	DAY	Rockfall Stabilization Crew - DCR, Per Workday.....	15,200.00
31 32 36 11-0069	DAY	Compaction Grouting Crew - DCR, Per Workday.....	12,925.00
31 32 36 11-0070	DAY	Additional Crew Member/Crew - DCR, Per Workday.....	2,050.00
31 32 36 11-0071	EA	Out of State Crew Rotation	4,950.00
31 32 36 11-0072	EA	Spider Excavation.....	5,500.00

31 32 36 13**Driven Soil Nailing** (31 32 36)**31 32 36 13-0001****Large Diameter Micropiles** (31 32 36 13)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing).....	94.50
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing).....	130.25
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing).....	166.50
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing).....	213.25

31 32 36 16**Grouted Soil Nailing** (31 32 36)**31 32 36 16-0001****Grouting** (31 32 36 16)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 16-0002		Compaction Grouting (31 32 36 16-0001)	
		Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.	
31 32 36 16-0003	LF	Compaction Grouting Casing Installation.....	52.75
31 32 36 16-0004	CF	Compaction Grout Injection for Soils Densification	55.50
31 32 36 16-0005	CF	Compaction Grout For Void Fill.....	39.00

31 32 36 16-0006		Polyurethane Grouting (31 32 36 16-0001)	
		Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3' below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.	
31 32 36 16-0007	LB	Polyurethane Grouting For Void Fill and Re-Leveling.....	11.50

31 32 36 19		Corrosion-Protected Soil Nailing (31 32 36)	
31 32 36 19-0001		Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 19)	
		Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 19-0002		Self-Drilling SuperNails® (31 32 36 19-0001)	
31 32 36 19-0003	EA	Self Drilling SuperNails® Up To 10 Ft. Length.....	559.00
31 32 36 19-0004	EA	Self Drilling SuperNails® Up To 20 Ft. Length.....	939.25
31 32 36 19-0005	EA	Self Drilling SuperNails® Up To 30 Ft. Length.....	1,305.75
31 32 36 19-0006	EA	Self Drilling SuperNails® Up To 40 Ft. Length.....	1,735.75
31 32 36 19-0007	EA	Self Drilling SuperNails® Up To 50 Ft. Length.....	2,119.75
31 32 36 19-0008	EA	Self Drilling SuperNails® Up To 60 Ft. Length.....	2,459.25
31 32 36 19-0009	EA	Self Drilling SuperNails® Up To 70 Ft. Length.....	2,879.25
31 32 36 19-0010	EA	Self Drilling SuperNails® Up To 80 Ft. Length.....	3,253.50
31 32 36 19-0011	EA	Additional Cost for 10' High Capacity X-51 Bar.....	129.50

31 32 36 19-0012		SuperNail® Testing (31 32 36 19)	
		Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	



	Earthwork	31	
	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 19-0013	EA	SuperNail® Proof Testing.....	769.00
31 32 36 19-0014	EA	SuperNail® Verification Testing.....	2,339.75

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001 Launched SuperDrain™ (Horizontal Drains) (31 32 36 26)

Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20'	605.00
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.	
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20'	621.50
		Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20'	478.50
		Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0005	EA	Temporary Launched Soil Nail.....	379.50
		Note: bare steel tube up to 20 ft. length.	
31 32 36 26-0006	EA	Fiberglass SuperDrain™.....	495.00
		Note: perforated fiberglass tube up to 20 ft. length.	
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™	379.50
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.	

31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001 Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 29)

Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length.....	602.25
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length	693.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length	921.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length	1,056.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length	1,171.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length	1,376.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length	1,624.75
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length	1,872.75
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	

31 32 36 33 Drilled / Launched Soil Nailing (31 32 36)

31 32 36 33-0001 Drilled / Launched SuperMicropiles™ (31 32 36 33)

Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 thread bar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner thread bar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.

31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length.....	695.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length	1,020.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length	1,280.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length	1,540.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 35 Slope Protection ^(31 30)

31 35 19 Geosynthetic Slope Protection ^(31 35)

31 35 19 19 Slope Protection with Mulch Control Netting ^(31 35 19)

Note: Includes stakes.

31 35 19 19-0001 Erosion Control Fabric ^(31 35 19 19)

31 35 19 19-0002 SY 26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900).....5.48

31 36 Gabions ^(31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 36 13 Gabion Boxes ^(31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection ^(31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002	SY	6" Deep Stone Filled Gabion Slope Protection	75.98
31 36 13 00-0003	SY	9" Deep Stone Filled Gabion Slope Protection	89.68
31 36 13 00-0004	SY	12" Deep Stone Filled Gabion Slope Protection	108.17
31 36 13 00-0005	SY	15" Deep Stone Filled Gabion Slope Protection	127.78
31 36 13 00-0006	SY	18" Deep Stone Filled Gabion Slope Protection	150.05
31 36 13 00-0007	SY	24" Deep Stone Filled Gabion Slope Protection	205.38
31 36 13 00-0008	SY	36" Deep Stone Filled Gabion Slope Protection	259.58

31 37 Riprap ^(31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

31 37 13 Machined Riprap ^(31 37)

31 37 13 00-0001 Random - Filter Stone ^(31 37 13)

31 37 13 00-0002	CY	10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	87.57
		<i>For Chinking Material, Add</i>	14.37
31 37 13 00-0003	CY	>50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	102.44
		<i>For Chinking Material, Add</i>	14.37
31 37 13 00-0004	CY	>100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	109.45
		<i>For Chinking Material, Add</i>	14.37
31 37 13 00-0005	CY	>200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	117.43
		<i>For Chinking Material, Add</i>	14.37
31 37 13 00-0006	CY	>300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	123.86
		<i>For Chinking Material, Add</i>	14.37
31 37 13 00-0007	CY	>600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap.....	134.38
31 37 13 00-0008	CY	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	152.14
31 37 13 00-0009	TON	10 To 50 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	57.62
31 37 13 00-0010	TON	>50 To 100 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	67.06
31 37 13 00-0011	TON	>100 To 200 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	71.51
31 37 13 00-0012	TON	>200 To 300 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	76.57
31 37 13 00-0013	TON	>300 To 600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap	80.66
31 37 13 00-0014	TON	>600 Lb. Average Pieces Random, Dumped From Truck, Rip Rap.....	87.41
31 37 13 00-0015	TON	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap	101.87

31 40 Shoring and Underpinning ⁽³¹⁾

31 41 Shoring ^(31 40)

31 41 13 Timber Shoring ^(31 41)

31 41 13 00-0001 Wood Sheet Piling ^(31 41 13)

31 41 13 00-0002 Pull And Salvage ^(31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 13 00-0003	SF	8' Deep Excavation, Wood Shoring, Pull And Salvage	14.85
		<i>For Wood Sheeting Left In Place</i>	-1.20
31 41 13 00-0004	SF	10' Deep Excavation, Wood Shoring, Pull And Salvage	16.06
		<i>For Wood Sheeting Left In Place</i>	-1.43
31 41 13 00-0005	SF	12' Deep Excavation, Wood Shoring, Pull And Salvage	17.40
		<i>For Wood Sheeting Left In Place</i>	-1.68
31 41 13 00-0006	SF	14' Deep Excavation, Wood Shoring, Pull And Salvage	18.83
		<i>For Wood Sheeting Left In Place</i>	-1.96
31 41 13 00-0007	SF	16' Deep Excavation, Wood Shoring, Pull And Salvage	20.39
		<i>For Wood Sheeting Left In Place</i>	-2.26
31 41 13 00-0008	SF	18' Deep Excavation, Wood Shoring, Pull And Salvage	22.08
		<i>For Wood Sheeting Left In Place</i>	-2.61



		Earthwork	31
		Shoring and Underpinning	31 40
		Shoring	31 41

15

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 41 13 00-0009 SF 20' Deep Excavation, Wood Shoring, Pull And Salvage 23.93
For Wood Sheeting Left In Place-2.98

31 41 16 Sheet Piling (31 41)**31 41 16 13 Steel Sheet Piling (31 41 16)****31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage (31 41 16 13)**

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-back (rock bolting) where required and excavation.

31 41 16 13-0002 TON Driven Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage.....2,363.17
For Standard Sheeting Left In Place, Add 1,256.17
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add 1,208.38
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 107.55
For High Strength Sheeting 55,000 PSI Grade, Add 119.50
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add 370.44
For Each Additional Month >3 Months, Add 59.75

31 41 16 13-0003 TON Driven Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage.....2,458.29
For Standard Sheeting Left In Place, Add 1,208.61
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add 1,160.82
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 107.55
For High Strength Sheeting 55,000 PSI Grade, Add 119.50
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add 370.44
For Each Additional Month >3 Months, Add 59.75

31 41 16 13-0004 TON Driven Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....2,900.54
For Standard Sheeting Left In Place, Add 987.49
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add 939.69
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 107.55
For High Strength Sheeting 55,000 PSI Grade, Add 119.50
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add 370.44
For Each Additional Month >3 Months, Add 59.75

31 41 16 13-0005 TON Driven Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....3,326.10
For Standard Sheeting Left In Place, Add 774.71
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add 726.91
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 107.55
For High Strength Sheeting 55,000 PSI Grade, Add 119.50
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add 370.44
For Each Additional Month >3 Months, Add 59.75

31 41 16 13-0006 TON Driven Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....3,576.44
For Standard Sheeting Left In Place, Add 649.54
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add 601.74
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 107.55
For High Strength Sheeting 55,000 PSI Grade, Add 119.50
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add 370.44
For Each Additional Month >3 Months, Add 59.75

31 41 16 13-0007 TON Driven Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....3,831.78
For Standard Sheeting Left In Place, Add 521.87
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add 474.07
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add 107.55
For High Strength Sheeting 55,000 PSI Grade, Add 119.50
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add 370.44
For Each Additional Month >3 Months, Add 59.75

31 43 Concrete Raising (31 40)**31 43 13 Pressure Grouting (31 43)****31 43 13 16 Polyurethane Pressure Grouting (31 43 13)****31 43 13 16-0001 PolyLift™ Concrete Injection For Lifting And Leveling (31 43 13 16)**

31 43 13 16-0002 EA Mobilization PolyLift™ Concrete Lifting And Leveling Minimum Charge.....3,688.14
31 43 13 16-0003 LB Up To 1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling 30.98
Note: Per pound of material.

31 43 13 16-0004 LB >1,000 Lb. PolyLift™ Concrete Injection For Lifting And Leveling 25.95
Note: Per pound of material.

31 45 Vibroflotation and Densification (31 40)**31 45 13 Vibroflotation (31 45)**

31 45 13 00-0001 LCY Soil Stabilization, Vibroflotation.....16.96

31 60 Special Foundations and Load-bearing Elements (31)**31 62 Driven Piles (31 60)****31 62 13 Concrete Piles (31 62)****31 62 13 23 Prestressed Concrete Piles (31 62 13)****31 62 13 23-0001 Square Prestressed Driven Concrete Piles (31 62 13 23)**

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 13 23-0002 VLF 10" Square Prestressed Driven Concrete Pile	37.00	
For Piles Driven In Water, Add	17.88	
31 62 13 23-0003 VLF 12" Square Prestressed Driven Concrete Pile	46.45	
For Piles Driven In Water, Add	20.15	
31 62 13 23-0004 VLF 14" Square Prestressed Driven Concrete Pile	56.33	
For Piles Driven In Water, Add	22.18	
31 62 13 23-0005 VLF 16" Square Prestressed Driven Concrete Pile	69.03	
For Piles Driven In Water, Add	24.62	
31 62 13 23-0006 VLF 18" Square Prestressed Driven Concrete Pile	83.82	
For Piles Driven In Water, Add	27.46	
31 62 13 23-0007 VLF 20" Square Prestressed Driven Concrete Pile	96.97	
For Piles Driven In Water, Add	30.36	
31 62 13 23-0008 VLF 24" Square Prestressed Driven Concrete Pile	123.74	
For Piles Driven In Water, Add	34.93	
31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles (31 62 13 23)		
31 62 13 23-0010 VLF 12" Octagonal Prestressed Driven Concrete Pile	41.58	
For Piles Driven In Water, Add	18.75	
31 62 13 23-0011 VLF 14" Octagonal Prestressed Driven Concrete Pile	51.05	
For Piles Driven In Water, Add	20.61	
31 62 13 23-0012 VLF 16" Octagonal Prestressed Driven Concrete Pile	60.66	
For Piles Driven In Water, Add	22.61	
31 62 13 23-0013 VLF 18" Octagonal Prestressed Driven Concrete Pile	72.54	
For Piles Driven In Water, Add	24.98	
31 62 13 23-0014 VLF 20" Octagonal Prestressed Driven Concrete Pile	77.21	
For Piles Driven In Water, Add	26.80	
31 62 13 23-0015 VLF 24" Octagonal Prestressed Driven Concrete Pile	82.15	
For Piles Driven In Water, Add	28.88	
31 62 13 23-0016 Straight Cylinder Prestressed Driven Concrete Piles (31 62 13 23)		
31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile	59.76	
For Piles Driven In Water, Add	19.76	
31 62 13 23-0018 VLF 14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	70.80	
For Piles Driven In Water, Add	21.67	
31 62 13 23-0019 VLF 16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile	83.89	
For Piles Driven In Water, Add	23.90	
31 62 13 23-0020 VLF 18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile	94.92	
For Piles Driven In Water, Add	26.03	
31 62 13 23-0021 VLF 20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile	119.27	
For Piles Driven In Water, Add	29.65	
31 62 13 23-0022 VLF 24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile	147.39	
For Piles Driven In Water, Add	33.82	
31 62 16 Steel Piles (31 62)		
31 62 16 16 Steel H Piles (31 62 16)		
31 62 16 16-0001 Rolled, Driven Steel H Piles (31 62 16 16)		
31 62 16 16-0002 VLF 8" x 8" x 36 Lb./FT, Rolled, Driven Steel H Pile	37.08	
For Piles Driven In Water, Add	19.22	
31 62 16 16-0003 VLF 10" x 10" x 42 Lb./FT, Rolled, Driven Steel H Pile	41.24	
For Piles Driven In Water, Add	20.40	
31 62 16 16-0004 VLF 10" x 10" x 57 Lb./FT, Rolled, Driven Steel H Pile	49.51	
For Piles Driven In Water, Add	21.22	
31 62 16 16-0005 VLF 12" x 12" x 53 Lb./FT, Rolled, Driven Steel H Pile	47.85	
For Piles Driven In Water, Add	21.54	
31 62 16 16-0006 VLF 12" x 12" x 63 Lb./FT, Rolled, Driven Steel H Pile	53.36	
For Piles Driven In Water, Add	22.09	
31 62 16 16-0007 VLF 12" x 12" x 74 Lb./FT, Rolled, Driven Steel H Pile	60.98	
For Piles Driven In Water, Add	24.25	
31 62 16 16-0008 VLF 12" x 12" x 84 Lb./FT, Rolled, Driven Steel H Pile	66.49	
For Piles Driven In Water, Add	24.80	
31 62 16 16-0009 VLF 14" x 14" x 73 Lb./FT, Rolled, Driven Steel H Pile	60.93	
For Piles Driven In Water, Add	24.70	
31 62 16 16-0010 VLF 14" x 14" x 89 Lb./FT, Rolled, Driven Steel H Pile	70.30	
For Piles Driven In Water, Add	25.63	
31 62 16 16-0011 VLF 14" x 14" x 102 Lb./FT, Rolled, Driven Steel H Pile	78.64	
For Piles Driven In Water, Add	28.02	
31 62 16 16-0012 VLF 14" x 14" x 117 Lb./FT, Rolled, Driven Steel H Pile	87.46	
For Piles Driven In Water, Add	28.90	
31 62 16 16-0013 Splices, Caps, And Points For H-Piles (31 62 16 16)		
31 62 16 16-0014 Rolled Steel H Pile Splices (31 62 16 16-0013)		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice	328.46	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice	367.63	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice	504.47	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice	524.05	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Driven Piles	31 62

15

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 16-0019		Rolled Steel H Driving Caps (31 62 16 16-0013)		
31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap.....	3,258.71	
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap.....	3,258.71	
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap.....	3,320.25	
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap.....	4,985.01	
31 62 16 16-0024		Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point.....	348.05	
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point.....	367.63	
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point.....	504.47	
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point.....	563.22	
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point.....	504.47	
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point.....	601.16	
31 62 16 19		Unfilled Tubular Steel Piles (31 62 16)		
31 62 16 19-0001		Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002	VLF	8" Diameter x 29 Lb./FT, Unfilled Tubular Driven Steel Pile	58.22	
		<i>For Piles Driven In Water, Add</i>	25.67	
31 62 16 19-0003	VLF	8" Diameter x 36 Lb./FT, Unfilled Tubular Driven Steel Pile	67.26	
		<i>For Piles Driven In Water, Add</i>	26.57	
31 62 16 19-0004	VLF	8" Diameter x 43 Lb./FT, Unfilled Tubular Driven Steel Pile	77.02	
		<i>For Piles Driven In Water, Add</i>	27.55	
31 62 16 19-0005	VLF	10" Diameter x 34 Lb./FT, Unfilled Tubular Driven Steel Pile	67.26	
		<i>For Piles Driven In Water, Add</i>	26.57	
31 62 16 19-0006	VLF	10" Diameter x 41 Lb./FT, Unfilled Tubular Driven Steel Pile	75.85	
		<i>For Piles Driven In Water, Add</i>	27.43	
31 62 16 19-0007	VLF	10" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile	94.83	
		<i>For Piles Driven In Water, Add</i>	29.33	
31 62 16 19-0008	VLF	12" Diameter x 42 Lb./FT, Unfilled Tubular Driven Steel Pile	79.07	
		<i>For Piles Driven In Water, Add</i>	28.80	
31 62 16 19-0009	VLF	12" Diameter x 50 Lb./FT, Unfilled Tubular Driven Steel Pile	89.12	
		<i>For Piles Driven In Water, Add</i>	29.80	
31 62 16 19-0010	VLF	12" Diameter x 54 Lb./FT, Unfilled Tubular Driven Steel Pile	94.71	
		<i>For Piles Driven In Water, Add</i>	30.36	
31 62 16 19-0011	VLF	12" Diameter x 65 Lb./FT, Unfilled Tubular Driven Steel Pile	110.35	
		<i>For Piles Driven In Water, Add</i>	31.92	
31 62 16 19-0012	VLF	14" Diameter x 46 Lb./FT, Unfilled Tubular Driven Steel Pile	85.50	
		<i>For Piles Driven In Water, Add</i>	31.62	
31 62 16 19-0013	VLF	14" Diameter x 55 Lb./FT, Unfilled Tubular Driven Steel Pile	96.88	
		<i>For Piles Driven In Water, Add</i>	32.76	
31 62 16 19-0014	VLF	14" Diameter x 64 Lb./FT, Unfilled Tubular Driven Steel Pile	108.26	
		<i>For Piles Driven In Water, Add</i>	33.89	
31 62 16 19-0015	VLF	14" Diameter x 72 Lb./FT, Unfilled Tubular Driven Steel Pile	119.63	
		<i>For Piles Driven In Water, Add</i>	35.03	
31 62 16 19-0016	VLF	16" Diameter x 52 Lb./FT, Unfilled Tubular Driven Steel Pile	95.13	
		<i>For Piles Driven In Water, Add</i>	35.28	
31 62 16 19-0017	VLF	16" Diameter x 63 Lb./FT, Unfilled Tubular Driven Steel Pile	108.44	
		<i>For Piles Driven In Water, Add</i>	36.61	
31 62 16 19-0018	VLF	16" Diameter x 83 Lb./FT, Unfilled Tubular Driven Steel Pile	134.37	
		<i>For Piles Driven In Water, Add</i>	39.20	
31 62 16 19-0019	VLF	18" Diameter x 59 Lb./FT, Unfilled Tubular Driven Steel Pile	117.45	
		<i>For Piles Driven In Water, Add</i>	39.69	
31 62 16 19-0020	VLF	18" Diameter x 71 Lb./FT, Unfilled Tubular Driven Steel Pile	134.72	
		<i>For Piles Driven In Water, Add</i>	41.42	
31 62 16 19-0021	VLF	18" Diameter x 93 Lb./FT, Unfilled Tubular Driven Steel Pile	167.55	
		<i>For Piles Driven In Water, Add</i>	44.70	
31 62 16 19-0022		Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0023		Steel Pipe Pile Splices (31 62 16 19-0022)		
31 62 16 19-0024	EA	8" Diameter, Steel Pipe Pile Splice.....	371.94	
31 62 16 19-0025	EA	10" Diameter, Steel Pipe Pile Splice.....	410.27	
31 62 16 19-0026	EA	12" Diameter, Steel Pipe Pile Splice.....	523.36	
31 62 16 19-0027	EA	14" Diameter, Steel Pipe Pile Splice.....	561.16	
31 62 16 19-0028	EA	16" Diameter, Steel Pipe Pile Splice.....	693.08	
31 62 16 19-0029	EA	18" Diameter, Steel Pipe Pile Splice.....	851.43	
31 62 16 19-0030		Steel Pipe Standard Pile Points (31 62 16 19-0022)		
31 62 16 19-0031	EA	8" Diameter, Steel Pipe Standard Pile Point.....	348.86	
31 62 16 19-0032	EA	10" Diameter, Steel Pipe Standard Pile Point.....	379.55	
31 62 16 19-0033	EA	12" Diameter, Steel Pipe Standard Pile Point.....	434.29	
31 62 16 19-0034	EA	14" Diameter, Steel Pipe Standard Pile Point.....	518.70	
31 62 16 19-0035	EA	16" Diameter, Steel Pipe Standard Pile Point.....	595.44	
31 62 16 19-0036	EA	18" Diameter, Steel Pipe Standard Pile Point.....	682.91	
31 62 16 19-0037		Steel Pipe Heavy-Duty Pile Points (31 62 16 19-0022)		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0038	EA		10" Diameter, Steel Pipe Heavy-Duty Pile Point.....	499.23	
31 62 16 19-0039	EA		12" Diameter, Steel Pipe Heavy-Duty Pile Point.....	537.60	
31 62 16 19-0040	EA		14" Diameter, Steel Pipe Heavy-Duty Pile Point.....	609.43	
31 62 16 19-0041	EA		16" Diameter, Steel Pipe Heavy-Duty Pile Point.....	762.90	
31 62 16 19-0042	EA		18" Diameter, Steel Pipe Heavy-Duty Pile Point.....	883.28	
31 62 19 Timber Piles ^(31 62)					
31 62 19 00-0001			Friction Or End Bearing, Driven Treated Wood Piles ^(31 62 19)		
			Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002	LF		Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	36.82	
			For Piles Driven In Water, Add	17.47	
			For Untreated Pile, Deduct	-7.96	
			For Each Pile Tip Point, Add	12.50	
			For Each Pile Butt, Driving Cap, Add	20.10	
			For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0003	LF		>30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	38.97	
			For Piles Driven In Water, Add	19.40	
			For Untreated Pile, Deduct	-8.04	
			For Each Pile Tip Point, Add	12.50	
			For Each Pile Butt, Driving Cap, Add	20.10	
			For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0004	LF		39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	41.11	
			For Piles Driven In Water, Add	20.65	
			For Untreated Pile, Deduct	-8.41	
			For Each Pile Tip Point, Add	12.50	
			For Each Pile Butt, Driving Cap, Add	20.10	
			For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0005	LF		>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	44.41	
			For Piles Driven In Water, Add	23.04	
			For Untreated Pile, Deduct	-8.78	
			For Each Pile Tip Point, Add	12.50	
			For Each Pile Butt, Driving Cap, Add	20.10	
			For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0006	LF		>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	54.74	
			For Piles Driven In Water, Add	26.14	
			For Untreated Pile, Deduct	-11.76	
			For Each Pile Tip Point, Add	12.50	
			For Each Pile Butt, Driving Cap, Add	20.10	
			For Each Splice For Pile >50', Add	139.40	
31 62 19 00-0007	LF		>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile.....	68.20	
			For Piles Driven In Water, Add	31.62	
			For Untreated Pile, Deduct	-15.04	
			For Each Pile Tip Point, Add	12.50	
			For Each Pile Butt, Driving Cap, Add	20.10	
			For Each Splice For Pile >50', Add	139.40	
31 62 23 Composite Piles ^(31 62)					
31 62 23 13 Concrete-Filled Steel Piles ^(31 62 23)					
31 62 23 13-0001			Concrete-Filled Driven Steel Pipe Piles ^(31 62 23 13)		
			Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.		
31 62 23 13-0002	VLF		8" Diameter x 29 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	62.44	
			For 5,000 PSI Concrete Grout Fill, Add	6.95	
			For Piles Driven In Water, Add	27.82	
31 62 23 13-0003	VLF		8" Diameter x 36 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	71.48	
			For 5,000 PSI Concrete Grout Fill, Add	7.85	
			For Piles Driven In Water, Add	28.72	
31 62 23 13-0004	VLF		8" Diameter x 43 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	81.24	
			For 5,000 PSI Concrete Grout Fill, Add	8.83	
			For Piles Driven In Water, Add	29.70	
31 62 23 13-0005	VLF		10" Diameter x 34 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	73.36	
			For 5,000 PSI Concrete Grout Fill, Add	9.72	
			For Piles Driven In Water, Add	29.38	
31 62 23 13-0006	VLF		10" Diameter x 41 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	81.95	
			For 5,000 PSI Concrete Grout Fill, Add	10.58	
			For Piles Driven In Water, Add	30.24	
31 62 23 13-0007	VLF		10" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	100.93	
			For 5,000 PSI Concrete Grout Fill, Add	12.47	
			For Piles Driven In Water, Add	32.13	
31 62 23 13-0008	VLF		12" Diameter x 42 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	87.64	
			For 5,000 PSI Concrete Grout Fill, Add	13.07	
			For Piles Driven In Water, Add	32.67	
31 62 23 13-0009	VLF		12" Diameter x 50 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	97.70	
			For 5,000 PSI Concrete Grout Fill, Add	14.07	
			For Piles Driven In Water, Add	33.67	
31 62 23 13-0010	VLF		12" Diameter x 54 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	103.28	
			For 5,000 PSI Concrete Grout Fill, Add	14.63	
			For Piles Driven In Water, Add	34.23	
31 62 23 13-0011	VLF		12" Diameter x 65 Lb./FT, Concrete-Filled Driven Steel Pipe Pile.....	118.92	
			For 5,000 PSI Concrete Grout Fill, Add	16.20	
			For Piles Driven In Water, Add	35.80	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Driven Piles	31 62

15

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0012 VLF 14" Diameter x 46 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	97.16 16.08 37.66	
31 62 23 13-0013 VLF 14" Diameter x 55 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	108.54 17.22 38.80	
31 62 23 13-0014 VLF 14" Diameter x 64 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	119.91 18.36 39.94	
31 62 23 13-0015 VLF 14" Diameter x 72 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	131.29 19.49 41.07	
31 62 23 13-0016 VLF 16" Diameter x 52 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	107.65 19.84 40.38	
31 62 23 13-0017 VLF 16" Diameter x 63 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	120.95 21.17 41.71	
31 62 23 13-0018 VLF 16" Diameter x 83 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	146.89 23.77 44.31	
31 62 23 13-0019 VLF 18" Diameter x 59 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	132.49 25.38 45.26	
31 62 23 13-0020 VLF 18" Diameter x 71 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	149.77 27.11 46.99	
31 62 23 13-0021 VLF 18" Diameter x 93 Lb./FT, Concrete-Filled Driven Steel Pipe Pile For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	182.60 30.39 50.27	
31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles (31 62 23 13) Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	80.64 24.61	
31 62 23 13-0024 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	97.88 27.51	
31 62 23 13-0025 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	110.80 30.16	
31 62 23 13-0026 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	120.53 32.72	
31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles (31 62 23 13) Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	79.11 24.45	
31 62 23 13-0029 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	81.19 25.84	
31 62 23 13-0030 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	99.10 28.99	
31 62 23 13-0031 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	114.34 32.10	
31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles (31 62 23 13)		
31 62 23 13-0033 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	47.49 18.70 0.08	
31 62 23 13-0034 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	52.44 20.75 0.09	
31 62 23 13-0035 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	57.31 22.78 0.10	
31 62 23 13-0036 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	62.26 24.83 0.10	
31 62 23 13-0037 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	67.20 26.88 0.11	
31 63 Bored Piles (31 60)		
31 63 36 Drilled Steel Piles (31 63)		
31 63 36 00-0001 Drill Hole (31 63 36) Note: Excludes removal of excess material.		
31 63 36 00-0002 Drilling Mobilization (31 63 36 00-0001)		
31 63 36 00-0003 EA >12" To 24" Diameter Hole, Drilling Mobilization	995.70	
31 63 36 00-0004 EA >24" Diameter Hole, Drilling Mobilization.....	1,327.60	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 63 Bored Piles**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 63 36 00-0005	Drill Hole In Soil	(31 63 36 00-0001)	
31 63 36 00-0006	LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole		57.20
31 63 36 00-0007	LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole		66.52
31 63 36 00-0008	LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole		78.15
31 63 36 00-0009	LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole		92.12
31 63 36 00-0010	LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole		99.56
31 63 36 00-0011	LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole		109.54
31 63 36 00-0012	LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole		119.98

31 63 36 00-0013 Steel H Piles (31 63 36)

31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles (31 63 36 00-0013)

Note: Includes guides, bracing and alignment.

31 63 36 00-0015	VLF 8" x 8" x 36 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	33.55
	For >2,400 To 3,600, Deduct	-1.18
	For >3,600 To 4,800, Deduct	-2.36
	For >4,800 To 6,000, Deduct	-4.04
	For >6,000, Deduct	-5.72
31 63 36 00-0016	VLF 10" x 10" x 42 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	37.54
	For >2,400 To 3,600, Deduct	-1.30
	For >3,600 To 4,800, Deduct	-2.60
	For >4,800 To 6,000, Deduct	-4.47
	For >6,000, Deduct	-6.35
31 63 36 00-0017	VLF 10" x 10" x 57 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	45.81
	For >2,400 To 3,600, Deduct	-1.50
	For >3,600 To 4,800, Deduct	-3.01
	For >4,800 To 6,000, Deduct	-5.30
	For >6,000, Deduct	-7.59
31 63 36 00-0018	VLF 12" x 12" x 53 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	44.03
	For >2,400 To 3,600, Deduct	-1.47
	For >3,600 To 4,800, Deduct	-2.94
	For >4,800 To 6,000, Deduct	-5.14
	For >6,000, Deduct	-7.34
31 63 36 00-0019	VLF 12" x 12" x 63 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	49.54
	For >2,400 To 3,600, Deduct	-1.61
	For >3,600 To 4,800, Deduct	-3.22
	For >4,800 To 6,000, Deduct	-5.69
	For >6,000, Deduct	-8.17
31 63 36 00-0020	VLF 12" x 12" x 74 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	56.85
	For >2,400 To 3,600, Deduct	-1.82
	For >3,600 To 4,800, Deduct	-3.64
	For >4,800 To 6,000, Deduct	-6.49
	For >6,000, Deduct	-9.33
31 63 36 00-0021	VLF 12" x 12" x 84 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	62.36
	For >2,400 To 3,600, Deduct	-1.96
	For >3,600 To 4,800, Deduct	-3.92
	For >4,800 To 6,000, Deduct	-7.04
	For >6,000, Deduct	-10.16
31 63 36 00-0022	VLF 14" x 14" x 73 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	56.70
	For >2,400 To 3,600, Deduct	-1.83
	For >3,600 To 4,800, Deduct	-3.66
	For >4,800 To 6,000, Deduct	-6.49
	For >6,000, Deduct	-9.33
31 63 36 00-0023	VLF 14" x 14" x 89 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	66.07
	For >2,400 To 3,600, Deduct	-2.06
	For >3,600 To 4,800, Deduct	-4.13
	For >4,800 To 6,000, Deduct	-7.43
	For >6,000, Deduct	-10.73
31 63 36 00-0024	VLF 14" x 14" x 102 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	74.06
	For >2,400 To 3,600, Deduct	-2.30
	For >3,600 To 4,800, Deduct	-4.59
	For >4,800 To 6,000, Deduct	-8.30
	For >6,000, Deduct	-12.00
31 63 36 00-0025	VLF 14" x 14" x 117 Lb./FT, Placed In Drilled Hole, Rolled Steel H Pile	82.88
	For >2,400 To 3,600, Deduct	-2.52
	For >3,600 To 4,800, Deduct	-5.03
	For >4,800 To 6,000, Deduct	-9.18
	For >6,000, Deduct	-13.32

31 63 36 00-0026 Welded Steel Stud Pins (31 63 36 00-0013)

Note: Includes welding to steel piles.

31 63 36 00-0027	EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	14.23
	For >50 To 150, Deduct	-0.64
	For >150 To 250, Deduct	-1.31
	For >250 To 500, Deduct	-1.99
	For >500, Deduct	-2.66
31 63 36 00-0028	EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins	15.76
	For >50 To 150, Deduct	-0.64
	For >150 To 250, Deduct	-1.35
	For >250 To 500, Deduct	-2.06
	For >500, Deduct	-2.77



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Bored Piles	31 63

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0029	EA	5/8" Diameter x 7" Long, Welded Steel Stud Pins	.....	17.23	
		For >50 To 150, Deduct		-0.64	
		For >150 To 250, Deduct		-1.39	
		For >250 To 500, Deduct		-2.14	
		For >500, Deduct		-2.88	
31 63 36 00-0030	EA	3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	.....	15.78	
		For >50 To 150, Deduct		-0.67	
		For >150 To 250, Deduct		-1.40	
		For >250 To 500, Deduct		-2.13	
		For >500, Deduct		-2.86	
31 63 36 00-0031	EA	3/4" Diameter x 5" Long, Welded Steel Stud Pins	.....	18.09	
		For >50 To 150, Deduct		-0.67	
		For >150 To 250, Deduct		-1.46	
		For >250 To 500, Deduct		-2.24	
		For >500, Deduct		-3.03	
31 63 36 00-0032	EA	3/4" Diameter x 7" Long, Welded Steel Stud Pins	.....	19.71	
		For >50 To 150, Deduct		-0.67	
		For >150 To 250, Deduct		-1.50	
		For >250 To 500, Deduct		-2.32	
		For >500, Deduct		-3.15	
31 63 36 00-0033	EA	7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	.....	17.70	
		For >50 To 150, Deduct		-0.70	
		For >150 To 250, Deduct		-1.49	
		For >250 To 500, Deduct		-2.28	
		For >500, Deduct		-3.07	
31 63 36 00-0034	EA	7/8" Diameter x 5" Long, Welded Steel Stud Pins	.....	21.47	
		For >50 To 150, Deduct		-0.70	
		For >150 To 250, Deduct		-1.58	
		For >250 To 500, Deduct		-2.47	
		For >500, Deduct		-3.35	
31 63 36 00-0035	EA	7/8" Diameter x 7" Long, Welded Steel Stud Pins	.....	23.31	
		For >50 To 150, Deduct		-0.70	
		For >150 To 250, Deduct		-1.63	
		For >250 To 500, Deduct		-2.56	
		For >500, Deduct		-3.49	

31 63 36 00-0036

Concrete Fill (31 63 36)

See CSI section 03 37 16 00-0001 for pumping equipment.

31 63 36 00-0037	VLF	18" Diameter Hole Pumped Concrete Fill For Drilled Pile	.....	47.07	
31 63 36 00-0038	VLF	20" Diameter Hole Pumped Concrete Fill For Drilled Pile	.....	52.28	
31 63 36 00-0039	VLF	22" Diameter Hole Pumped Concrete Fill For Drilled Pile	.....	57.52	
31 63 36 00-0040	VLF	24" Diameter Hole Pumped Concrete Fill For Drilled Pile	.....	62.74	
31 63 36 00-0041	VLF	26" Diameter Hole Pumped Concrete Fill For Drilled Pile	.....	67.97	
31 63 36 00-0042	VLF	28" Diameter Hole Pumped Concrete Fill For Drilled Pile	.....	73.19	
31 63 36 00-0043	VLF	30" Diameter Hole Pumped Concrete Fill For Drilled Pile	.....	85.93	

31 64 Caissons (31 60)

31 64 13 Box Caissons (31 64)

31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water (31 64 13)

Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0002 Caisson In Stable Ground (31 64 13 00-0001)

Note: Includes 3000 PSI concrete and reinforcing.

31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water	.....	60.48	
		Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.			
		For >50' To 100' Deep, Add		5.88	
		For >100' To 150' Deep, Add		15.12	
		For >150' To 200' Deep, Add		20.20	
		For Right Angle Drilling, Add		16.03	
		For >3 To 9, Deduct		-1.54	
		For >9, Deduct		-3.19	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water	.....	75.97	
		Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.			
		For >50' To 100' Deep, Add		8.08	
		For >100' To 150' Deep, Add		18.99	
		For >150' To 200' Deep, Add		26.24	
		For Right Angle Drilling, Add		17.97	
		For >3 To 9, Deduct		-2.59	
		For >9, Deduct		-5.34	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water	.....	107.39	
		Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.			
		For >50' To 100' Deep, Add		11.91	
		For >100' To 150' Deep, Add		26.85	
		For >150' To 200' Deep, Add		37.71	
		For Right Angle Drilling, Add		23.86	
		For >3 To 9, Deduct		-4.12	
		For >9, Deduct		-8.51	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0006	VLF		36" Diameter Caisson, No Casing Stable Ground, No Ground Water 142.00 Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	16.26	
			For >100' To 150' Deep, Add	35.50	
			For >150' To 200' Deep, Add	50.50	
			For Right Angle Drilling, Add	29.96	
			For >3 To 9, Deduct	-5.92	
			For >9, Deduct	-12.24	
31 64 13 00-0007	VLF		42" Diameter Caisson, No Casing Stable Ground, No Ground Water 181.70 Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	21.55	
			For >100' To 150' Deep, Add	45.43	
			For >150' To 200' Deep, Add	65.55	
			For Right Angle Drilling, Add	36.00	
			For >3 To 9, Deduct	-8.28	
			For >9, Deduct	-17.11	
31 64 13 00-0008	VLF		48" Diameter Caisson No Casing Stable Ground, No Ground Water 218.68 Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	26.41	
			For >100' To 150' Deep, Add	54.67	
			For >150' To 200' Deep, Add	79.49	
			For Right Angle Drilling, Add	41.83	
			For >3 To 9, Deduct	-10.41	
			For >9, Deduct	-21.52	
31 64 13 00-0009	VLF		54" Diameter Caisson No Casing Stable Ground, No Ground Water 263.60 Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	32.80	
			For >100' To 150' Deep, Add	65.90	
			For >150' To 200' Deep, Add	97.01	
			For Right Angle Drilling, Add	47.43	
			For >3 To 9, Deduct	-13.45	
			For >9, Deduct	-27.80	
31 64 13 00-0010	VLF		60" Diameter Caisson No Casing Stable Ground, No Ground Water 309.49 Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	39.33	
			For >100' To 150' Deep, Add	77.37	
			For >150' To 200' Deep, Add	114.92	
			For Right Angle Drilling, Add	53.13	
			For >3 To 9, Deduct	-16.56	
			For >9, Deduct	-34.22	
31 64 13 00-0011	VLF		66" Diameter Caisson No Casing Stable Ground, No Ground Water 361.36 Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	46.66	
			For >100' To 150' Deep, Add	90.34	
			For >150' To 200' Deep, Add	135.12	
			For Right Angle Drilling, Add	59.70	
			For >3 To 9, Deduct	-20.03	
			For >9, Deduct	-41.40	
31 64 13 00-0012	VLF		72" Diameter Caisson No Casing Stable Ground, No Ground Water 420.83 Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	55.14	
			For >100' To 150' Deep, Add	105.21	
			For >150' To 200' Deep, Add	158.35	
			For Right Angle Drilling, Add	67.04	
			For >3 To 9, Deduct	-24.08	
			For >9, Deduct	-49.76	
31 64 13 00-0013	VLF		78" Diameter Caisson No Casing Stable Ground, No Ground Water 480.13 Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	63.75	
			For >100' To 150' Deep, Add	120.03	
			For >150' To 200' Deep, Add	181.71	
			For Right Angle Drilling, Add	73.86	
			For >3 To 9, Deduct	-28.26	
			For >9, Deduct	-58.40	
31 64 13 00-0014	VLF		84" Diameter Caisson No Casing Stable Ground, No Ground Water 543.41 Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	72.99	
			For >100' To 150' Deep, Add	135.85	
			For >150' To 200' Deep, Add	206.72	
			For Right Angle Drilling, Add	80.96	
			For >3 To 9, Deduct	-32.77	
			For >9, Deduct	-67.73	
31 64 13 00-0015			For Bell Excavation And Concrete, Add (31 64 13 00-0001)		
31 64 13 00-0016	EA		4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY 466.18		
			For >50' To 100' Deep, Add	37.99	
			For >100' To 150' Deep, Add	116.55	
			For >150' To 200' Deep, Add	146.55	
			For >3 To 9, Deduct	-5.02	
			For >9, Deduct	-10.37	
31 64 13 00-0017	EA		6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY 1,638.84		
			For >50' To 100' Deep, Add	133.75	
			For >100' To 150' Deep, Add	409.71	
			For >150' To 200' Deep, Add	515.44	
			For >3 To 9, Deduct	-17.84	
			For >9, Deduct	-36.88	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
31 64 13 00-0018	EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	2,479.26 205.57 619.62 783.80 -30.02 -62.04	
31 64 13 00-0019	EA Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	3,441.55 285.92 860.39 1,088.72 -42.19 -87.20	
31 64 13 00-0020	EA Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	4,669.21 380.97 1,167.30 1,468.42 -50.74 -104.87	
31 64 13 00-0021	EA Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	5,490.26 447.76 1,372.57 1,726.39 -59.48 -122.93	
31 64 13 00-0022	EA Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	9,311.14 757.85 2,327.79 2,925.93 -99.44 -205.52	
31 64 13 00-0023	EA Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For >3 To 9, Deduct For >9, Deduct	13,464.50 1,107.08 3,366.13 4,245.05 -154.28 -318.84	
31 64 13 00-0024	Caisson In Wet Ground, Casing Pulled (31 64 13) Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025	Caisson In Wet Ground (31 64 13 00-0024) Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026	VLF 18" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	67.17 6.34 16.79 22.20 18.40 -1.53 -3.17	
31 64 13 00-0027	VLF 24" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	112.36 10.62 28.09 37.16 30.71 -2.59 -5.34	
31 64 13 00-0028	VLF 30" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	148.38 14.78 37.10 50.01 38.20 -4.12 -8.51	
31 64 13 00-0029	VLF 36" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	203.58 20.57 50.90 68.97 51.51 -5.92 -12.24	
31 64 13 00-0030	VLF 42" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	257.67 26.87 64.42 88.34 62.58 -8.28 -17.11	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0031	VLF	48" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.	308.75	
		For >50' To 100' Deep, Add	32.72	
		For >100' To 150' Deep, Add	77.19	
		For >150' To 200' Deep, Add	106.51	
		For Right Angle Drilling, Add	73.36	
		For >3 To 9, Deduct	-10.41	
		For >9, Deduct	-21.52	
31 64 13 00-0032	VLF	54" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.	398.37	
		For >50' To 100' Deep, Add	42.23	
		For >100' To 150' Deep, Add	99.59	
		For >150' To 200' Deep, Add	137.44	
		For Right Angle Drilling, Add	94.60	
		For >3 To 9, Deduct	-13.45	
		For >9, Deduct	-27.80	
31 64 13 00-0033	VLF	60" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.	487.78	
		For >50' To 100' Deep, Add	51.81	
		For >100' To 150' Deep, Add	121.95	
		For >150' To 200' Deep, Add	168.41	
		For Right Angle Drilling, Add	115.53	
		For >3 To 9, Deduct	-16.56	
		For >9, Deduct	-34.22	
31 64 13 00-0034	VLF	66" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.87 CY Concrete per VLF, 113 Lb. rebar per VLF.	556.40	
		For >50' To 100' Deep, Add	60.32	
		For >100' To 150' Deep, Add	139.10	
		For >150' To 200' Deep, Add	193.63	
		For Right Angle Drilling, Add	127.96	
		For >3 To 9, Deduct	-20.03	
		For >9, Deduct	-41.40	
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF.	632.54	
		For >50' To 100' Deep, Add	69.96	
		For >100' To 150' Deep, Add	158.14	
		For >150' To 200' Deep, Add	221.86	
		For Right Angle Drilling, Add	141.14	
		For >3 To 9, Deduct	-24.08	
		For >9, Deduct	-49.76	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF.	719.44	
		For >50' To 100' Deep, Add	80.50	
		For >100' To 150' Deep, Add	179.86	
		For >150' To 200' Deep, Add	253.51	
		For Right Angle Drilling, Add	157.62	
		For >3 To 9, Deduct	-28.26	
		For >9, Deduct	-58.40	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF.	810.78	
		For >50' To 100' Deep, Add	91.71	
		For >100' To 150' Deep, Add	202.70	
		For >150' To 200' Deep, Add	286.93	
		For Right Angle Drilling, Add	174.54	
		For >3 To 9, Deduct	-32.77	
		For >9, Deduct	-67.73	
31 64 13 00-0038		For Bell Excavation And Concrete, Add (31 64 13 00-0024)		
31 64 13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	538.93	
		For >50' To 100' Deep, Add	43.08	
		For >100' To 150' Deep, Add	134.73	
		For >150' To 200' Deep, Add	168.37	
		For >3 To 9, Deduct	-5.02	
		For >9, Deduct	-10.37	
31 64 13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,877.55	
		For >50' To 100' Deep, Add	150.46	
		For >100' To 150' Deep, Add	469.39	
		For >150' To 200' Deep, Add	587.06	
		For >3 To 9, Deduct	-17.84	
		For >9, Deduct	-36.88	
31 64 13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	2,579.68	
		For >50' To 100' Deep, Add	192.77	
		For >100' To 150' Deep, Add	644.92	
		For >150' To 200' Deep, Add	789.15	
		For >3 To 9, Deduct	-11.43	
		For >9, Deduct	-23.63	
31 64 13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	4,125.06	
		For >50' To 100' Deep, Add	333.76	
		For >100' To 150' Deep, Add	1,031.27	
		For >150' To 200' Deep, Add	1,293.78	
		For >3 To 9, Deduct	-42.19	
		For >9, Deduct	-87.20	



	Earthwork	31	
	Special Foundations and Load-bearing Elements	31 60	
	Caissons	31 64	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0043	EA		Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	5,349.55	
			For >50' To 100' Deep, Add	428.60	
			For >100' To 150' Deep, Add	1,337.39	
			For >150' To 200' Deep, Add	1,672.52	
			For >3 To 9, Deduct	-50.74	
			For >9, Deduct	-104.87	
31 64 13 00-0044	EA		Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	6,290.66	
			For >50' To 100' Deep, Add	503.79	
			For >100' To 150' Deep, Add	1,572.67	
			For >150' To 200' Deep, Add	1,966.51	
			For >3 To 9, Deduct	-59.48	
			For >9, Deduct	-122.93	
31 64 13 00-0045	EA		Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	10,671.83	
			For >50' To 100' Deep, Add	853.10	
			For >100' To 150' Deep, Add	2,667.96	
			For >150' To 200' Deep, Add	3,334.14	
			For >3 To 9, Deduct	-99.44	
			For >9, Deduct	-205.52	
31 64 13 00-0046	EA		Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	15,408.33	
			For >50' To 100' Deep, Add	1,243.15	
			For >100' To 150' Deep, Add	3,852.08	
			For >150' To 200' Deep, Add	4,828.20	
			For >3 To 9, Deduct	-154.28	
			For >9, Deduct	-318.84	
31 64 13 00-0047			Caisson In Soft Rock And Medium Hard Shale (31 64 13)		
			Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048			Caisson In Soft Rock (31 64 13 00-0047)		
			Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF		18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	258.85	
			Note: 0.066 CY Concrete per VLF, 9 Lb. rebar per VLF.		
			For Right Angle Drilling, Add	85.49	
			For >3 To 9, Deduct	-1.53	
			For >9, Deduct	-3.17	
31 64 13 00-0050	VLF		24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	431.89	
			Note: 0.116 CY Concrete per VLF, 14 Lb. rebar per VLF.		
			For Right Angle Drilling, Add	142.54	
			For >3 To 9, Deduct	-2.59	
			For >9, Deduct	-5.34	
31 64 13 00-0051	VLF		30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	650.96	
			Note: 0.182 CY Concrete per VLF, 23 Lb. rebar per VLF.		
			For Right Angle Drilling, Add	214.11	
			For >3 To 9, Deduct	-4.12	
			For >9, Deduct	-8.51	
31 64 13 00-0052	VLF		36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	831.86	
			Note: 0.262 CY Concrete per VLF, 33 Lb. rebar per VLF.		
			For Right Angle Drilling, Add	271.41	
			For >3 To 9, Deduct	-5.92	
			For >9, Deduct	-12.24	
31 64 13 00-0053	VLF		42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,074.20	
			Note: 0.356 CY Concrete per VLF, 48 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	84.03	
			For >100' To 150' Deep, Add	268.55	
			For >150' To 200' Deep, Add	333.30	
			For Right Angle Drilling, Add	348.37	
			For >3 To 9, Deduct	-8.28	
			For >9, Deduct	-17.11	
31 64 13 00-0054	VLF		48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,295.38	
			Note: 0.465 CY Concrete per VLF, 57 Lb. rebar per VLF.		
			For Right Angle Drilling, Add	418.68	
			For >3 To 9, Deduct	-10.41	
			For >9, Deduct	-21.52	
31 64 13 00-0055	VLF		54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,584.13	
			Note: 0.589 CY Concrete per VLF, 76 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	125.24	
			For >100' To 150' Deep, Add	396.03	
			For >150' To 200' Deep, Add	493.17	
			For Right Angle Drilling, Add	509.61	
			For >3 To 9, Deduct	-13.45	
			For >9, Deduct	-27.80	
31 64 13 00-0056	VLF		60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	1,872.94	
			Note: 0.727 CY Concrete per VLF, 93 Lb. rebar per VLF.		
			For Right Angle Drilling, Add	600.34	
			For >3 To 9, Deduct	-16.56	
			For >9, Deduct	-34.22	
31 64 13 00-0057	VLF		66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	2,057.46	
			Note: 0.88 CY Concrete per VLF, 113 Lb. rebar per VLF.		
			For >50' To 100' Deep, Add	165.39	
			For >100' To 150' Deep, Add	514.37	
			For >150' To 200' Deep, Add	643.95	
			For Right Angle Drilling, Add	653.33	
			For >3 To 9, Deduct	-20.03	
			For >9, Deduct	-41.41	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0058	VLF	72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.047 CY Concrete per VLF, 134 Lb. rebar per VLF. For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	2,248.60 706.76 -24.08 -49.76	
31 64 13 00-0059	VLF	78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.229 CY Concrete per VLF, 157 Lb. rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	2,304.34 191.44 576.09 728.98 712.33 -28.26 -58.40	
31 64 13 00-0060	VLF	84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.425 CY Concrete per VLF, 183 Lb. rebar per VLF. For Right Angle Drilling, Add For >3 To 9, Deduct For >9, Deduct	2,751.52 853.80 -32.77 -67.73	
31 64 13 00-0061		For Bell Excavation And Concrete, Add (31 64 13 00-0047)		
31 64 13 00-0062	EA	Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY For >3 To 9, Deduct For >9, Deduct	924.35 -5.02 -10.37	
31 64 13 00-0063	EA	Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY For >3 To 9, Deduct For >9, Deduct	3,252.73 -17.84 -36.88	
31 64 13 00-0064	EA	Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY For >3 To 9, Deduct For >9, Deduct	4,874.46 -30.02 -62.04	
31 64 13 00-0065	EA	Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY For >3 To 9, Deduct For >9, Deduct	6,940.08 -42.19 -87.20	
31 64 13 00-0066	EA	Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY For >3 To 9, Deduct For >9, Deduct	9,172.87 -50.74 -104.87	
31 64 13 00-0067	EA	Bell Excavation And Concrete, 10' Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY For >3 To 9, Deduct For >9, Deduct	11,177.41 -59.48 -122.93	
31 64 13 00-0068	EA	Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY For >3 To 9, Deduct For >9, Deduct	16,902.44 -99.44 -205.52	
31 64 13 00-0069	EA	Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY For >3 To 9, Deduct For >9, Deduct	25,421.81 -154.28 -318.84	
31 64 13 00-0070		Caisson Setup And Removal (31 64 13) Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.		
31 64 13 00-0071	EA	Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete For >3 To 9, Deduct For >9, Deduct	4,361.08 -17.03 -35.19	
31 64 13 00-0072	EA	Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete For >3 To 9, Deduct For >9, Deduct	6,117.45 -45.40 -93.83	
31 64 13 00-0073	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	2,067.04	
31 64 13 00-0074	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,756.05	
31 64 13 00-0075	EA	Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	172.25	
31 66		Special Foundation (31 60)		
31 66 15		Helical Foundation Piles (31 66)		
31 66 15 00-0001		Helical Pier Restoration (Atlas) (31 66 15)		
31 66 15 00-0002	EA	Structural Steel Piers (Atlas Pier System Or Equal)..... Note: Includes heavy-duty bracket, pier platform, and 14' of 3.5" diameter pier sections, non-corrosive coating, hydraulic lifting, fasteners, and other related activities and materials. Excludes excavation and core drilling For >3 To 9, Deduct For >9, Deduct	3,954.76 -271.24 -560.57	
31 66 15 00-0003	EA	Pressure Injecting Grout For Slab Repairs, Per Location Note: Includes preparation, installing and removing grout injection pipes, and finishing. Excludes grout and core drilling. For >3 To 9, Deduct For >9, Deduct	480.63 -31.48 -65.06	
31 66 15 00-0004	CY	Pressure Injected Non-Shrink Grout..... For >3 To 9, Deduct For >9, Deduct	494.15 -31.48 -65.06	

31 68 Foundation Anchors (31 60)



Earthwork		31
Special Foundations and Load-bearing Elements		31 60
Foundation Anchors		31 68

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 Rock Foundation Anchors (31 68)			
31 68 13 00-0001 Materials And Placement (31 68 13)			
31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001)			
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.			
31 68 13 00-0003 3/4" Diameter (31 68 13 00-0002)			
31 68 13 00-0004	EA 3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	278.23	
	For >3 To 9, Deduct	-14.53	
	For >9, Deduct	-30.02	
31 68 13 00-0005	EA 3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	402.48	
	For >3 To 9, Deduct	-21.73	
	For >9, Deduct	-44.91	
31 68 13 00-0006	EA 3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	498.55	
	For >3 To 9, Deduct	-28.94	
	For >9, Deduct	-59.80	
31 68 13 00-0007	EA 3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	650.99	
	For >3 To 9, Deduct	-36.14	
	For >9, Deduct	-74.69	
31 68 13 00-0008 1" Diameter (31 68 13 00-0002)			
31 68 13 00-0009	EA 1" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	358.52	
	For >3 To 9, Deduct	-20.55	
	For >9, Deduct	-42.47	
31 68 13 00-0010	EA 1" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	556.88	
	For >3 To 9, Deduct	-33.31	
	For >9, Deduct	-68.84	
31 68 13 00-0011	EA 1" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	727.05	
	For >3 To 9, Deduct	-46.07	
	For >9, Deduct	-95.22	
31 68 13 00-0012	EA 1" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	953.65	
	For >3 To 9, Deduct	-58.84	
	For >9, Deduct	-121.61	
31 68 13 00-0013 1-3/8" Diameter (31 68 13 00-0002)			
31 68 13 00-0014	EA 1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	606.11	
	For >3 To 9, Deduct	-39.12	
	For >9, Deduct	-80.84	
31 68 13 00-0015	EA 1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	946.44	
	For >3 To 9, Deduct	-62.53	
	For >9, Deduct	-129.23	
31 68 13 00-0016	EA 1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	1,258.64	
	For >3 To 9, Deduct	-85.94	
	For >9, Deduct	-177.62	
31 68 13 00-0017	EA 1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	1,627.15	
	For >3 To 9, Deduct	-109.35	
	For >9, Deduct	-226.00	
31 68 13 00-0018 2" Diameter (31 68 13 00-0002)			
31 68 13 00-0019	EA 2" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	1,359.09	
	For >3 To 9, Deduct	-95.59	
	For >9, Deduct	-197.55	
31 68 13 00-0020	EA 2" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	2,023.71	
	For >3 To 9, Deduct	-143.32	
	For >9, Deduct	-296.20	
31 68 13 00-0021	EA 2" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	2,660.04	
	For >3 To 9, Deduct	-191.05	
	For >9, Deduct	-394.83	
31 68 13 00-0022	EA 2" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	3,352.85	
	For >3 To 9, Deduct	-238.78	
	For >9, Deduct	-493.48	
31 68 13 00-0023 Super High-Tensile Anchors, ASTM A-108 (31 68 13 00-0001)			
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.			
31 68 13 00-0024 3/4" Diameter (31 68 13 00-0023)			
31 68 13 00-0025	EA 3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	196.98	
	For >3 To 9, Deduct	-8.43	
	For >9, Deduct	-17.43	
31 68 13 00-0026	EA 3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	262.81	
	For >3 To 9, Deduct	-11.26	
	For >9, Deduct	-23.26	
31 68 13 00-0027	EA 3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	300.32	
	For >3 To 9, Deduct	-14.07	
	For >9, Deduct	-29.08	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0028	EA		3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	391.51	
			For >3 To 9, Deduct	-16.68	
			For >9, Deduct	-34.47	
31 68 13 00-0029			1" Diameter (31 68 13 00-0023)		
31 68 13 00-0030	EA		1" Rock Bolt, 5' Super High-Tensile Anchor.....	238.66	
			For >3 To 9, Deduct	-11.56	
			For >9, Deduct	-23.89	
31 68 13 00-0031	EA		1" Rock Bolt, 10' Super High-Tensile Anchor.....	333.03	
			For >3 To 9, Deduct	-16.52	
			For >9, Deduct	-34.15	
31 68 13 00-0032	EA		1" Rock Bolt, 15' Super High-Tensile Anchor.....	395.86	
			For >3 To 9, Deduct	-21.23	
			For >9, Deduct	-43.89	
31 68 13 00-0033	EA		1" Rock Bolt, 20' Super High-Tensile Anchor.....	515.06	
			For >3 To 9, Deduct	-25.95	
			For >9, Deduct	-53.62	
31 68 13 00-0034			1-1/4" Diameter (31 68 13 00-0023)		
31 68 13 00-0035	EA		1-1/4" Rock Bolt, 5' Super High-Tensile Anchor.....	361.06	
			For >3 To 9, Deduct	-20.74	
			For >9, Deduct	-42.86	
31 68 13 00-0036	EA		1-1/4" Rock Bolt, 10' Super High-Tensile Anchor.....	508.48	
			For >3 To 9, Deduct	-29.68	
			For >9, Deduct	-61.34	
31 68 13 00-0037	EA		1-1/4" Rock Bolt, 15' Super High-Tensile Anchor.....	626.95	
			For >3 To 9, Deduct	-38.57	
			For >9, Deduct	-79.70	
31 68 13 00-0038	EA		1-1/4" Rock Bolt, 20' Super High-Tensile Anchor.....	796.85	
			For >3 To 9, Deduct	-47.08	
			For >9, Deduct	-97.30	
31 68 13 00-0039			2" Diameter (31 68 13 00-0023)		
31 68 13 00-0040	EA		2" Rock Bolt, 5' Super High-Tensile Anchor.....	984.11	
			For >3 To 9, Deduct	-67.47	
			For >9, Deduct	-139.43	
31 68 13 00-0041	EA		2" Rock Bolt, 10' Super High-Tensile Anchor.....	1,400.90	
			For >3 To 9, Deduct	-96.61	
			For >9, Deduct	-199.67	
31 68 13 00-0042	EA		2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,716.88	
			For >3 To 9, Deduct	-120.31	
			For >9, Deduct	-248.64	
31 68 13 00-0043	EA		2" Rock Bolt, 20' Super High-Tensile Anchor.....	2,108.38	
			For >3 To 9, Deduct	-145.45	
			For >9, Deduct	-300.59	
31 68 13 00-0044			Solid Rebar Anchors, ASTM A615 (31 68 13 00-0001)		
			Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045			3/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0046	EA		3/4" Rock Bolt, 5' Solid Rebar Anchor.....	183.60	
			For >3 To 9, Deduct	-7.43	
			For >9, Deduct	-15.35	
31 68 13 00-0047	EA		3/4" Rock Bolt, 10' Solid Rebar Anchor.....	234.51	
			For >3 To 9, Deduct	-9.13	
			For >9, Deduct	-18.88	
31 68 13 00-0048	EA		3/4" Rock Bolt, 15' Solid Rebar Anchor.....	257.20	
			For >3 To 9, Deduct	-10.84	
			For >9, Deduct	-22.39	
31 68 13 00-0049	EA		3/4" Rock Bolt, 20' Solid Rebar Anchor.....	336.30	
			For >3 To 9, Deduct	-12.54	
			For >9, Deduct	-25.92	
31 68 13 00-0050			1" Diameter (31 68 13 00-0044)		
31 68 13 00-0051	EA		1" Rock Bolt, 5' Solid Rebar Anchor.....	209.35	
			For >3 To 9, Deduct	-9.36	
			For >9, Deduct	-19.34	
31 68 13 00-0052	EA		1" Rock Bolt, 10' Solid Rebar Anchor.....	277.10	
			For >3 To 9, Deduct	-12.33	
			For >9, Deduct	-25.48	
31 68 13 00-0053	EA		1" Rock Bolt, 15' Solid Rebar Anchor.....	316.72	
			For >3 To 9, Deduct	-15.30	
			For >9, Deduct	-31.62	
31 68 13 00-0054	EA		1" Rock Bolt, 20' Solid Rebar Anchor.....	412.61	
			For >3 To 9, Deduct	-18.26	
			For >9, Deduct	-37.74	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0055 1-1/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0056 EA 1-1/4" Rock Bolt, 5' Solid Rebar Anchor	312.38	
For >3 To 9, Deduct	-17.09	
For >9, Deduct	-35.31	
31 68 13 00-0057 EA 1-1/4" Rock Bolt, 10' Solid Rebar Anchor	402.38	
For >3 To 9, Deduct	-21.72	
For >9, Deduct	-44.90	
31 68 13 00-0058 EA 1-1/4" Rock Bolt, 15' Solid Rebar Anchor	464.35	
For >3 To 9, Deduct	-26.37	
For >9, Deduct	-54.50	
31 68 13 00-0059 EA 1-1/4" Rock Bolt, 20' Solid Rebar Anchor	582.64	
For >3 To 9, Deduct	-31.02	
For >9, Deduct	-64.10	
31 68 13 00-0060 Resin Anchoring With Grade 60 Rebar (31 68 13 00-0001)		
Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061 Rebar #6 (31 68 13 00-0060)		
31 68 13 00-0062 EA #6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar	93.18	
For >3 To 9, Deduct	-0.65	
For >9, Deduct	-1.34	
31 68 13 00-0063 EA #6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar	130.00	
For >3 To 9, Deduct	-1.30	
For >9, Deduct	-2.68	
31 68 13 00-0064 EA #6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar	138.63	
For >3 To 9, Deduct	-1.94	
For >9, Deduct	-4.01	
31 68 13 00-0065 EA #6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	186.37	
For >3 To 9, Deduct	-1.30	
For >9, Deduct	-2.68	
31 68 13 00-0066 Rebar #8 (31 68 13 00-0060)		
31 68 13 00-0067 EA #8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	99.90	
For >3 To 9, Deduct	-1.15	
For >9, Deduct	-2.38	
31 68 13 00-0068 EA #8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	143.43	
For >3 To 9, Deduct	-2.30	
For >9, Deduct	-4.76	
31 68 13 00-0069 EA #8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	158.78	
For >3 To 9, Deduct	-3.45	
For >9, Deduct	-7.14	
31 68 13 00-0070 EA #8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	230.49	
For >3 To 9, Deduct	-4.60	
For >9, Deduct	-9.52	
31 68 13 00-0071 Rebar #10 (31 68 13 00-0060)		
31 68 13 00-0072 EA #10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	109.49	
For >3 To 9, Deduct	-1.87	
For >9, Deduct	-3.87	
31 68 13 00-0073 EA #10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	162.61	
For >3 To 9, Deduct	-3.74	
For >9, Deduct	-7.73	
31 68 13 00-0074 EA #10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	187.55	
For >3 To 9, Deduct	-5.61	
For >9, Deduct	-11.60	
31 68 13 00-0075 EA #10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	268.86	
For >3 To 9, Deduct	-7.48	
For >9, Deduct	-15.46	
31 68 13 00-0076 Rebar #14 (31 68 13 00-0060)		
31 68 13 00-0077 EA #14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar	132.51	
For >3 To 9, Deduct	-3.60	
For >9, Deduct	-7.43	
31 68 13 00-0078 EA #14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar	208.66	
For >3 To 9, Deduct	-7.19	
For >9, Deduct	-14.87	
31 68 13 00-0079 EA #14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar	256.62	
For >3 To 9, Deduct	-10.79	
For >9, Deduct	-22.30	
31 68 13 00-0080 EA #14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar	360.96	
For >3 To 9, Deduct	-14.39	
For >9, Deduct	-29.74	
31 68 13 00-0081 Plastic Rebar Collars, Sizes #6-#14 (31 68 13 00-0060)		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0082	EA		Plastic Rebar Collars For Rebar #4 To #14	2.56	
			For >3 To 9, Deduct	-0.19	
			For >9, Deduct	-0.40	
31 68 13 00-0083			12" Long Resin Cartridges (31 68 13 00-0001)		
31 68 13 00-0084	EA		7/8" Resin Cartridge 12" Long	2.80	
			For >3 To 9, Deduct	-0.21	
			For >9, Deduct	-0.43	
31 68 13 00-0085	EA		1" Resin Cartridge 12" Long	3.84	
			For >3 To 9, Deduct	-0.29	
			For >9, Deduct	-0.60	
31 68 13 00-0086	EA		1-1/16" Resin Cartridge 12" Long	4.11	
			For >3 To 9, Deduct	-0.31	
			For >9, Deduct	-0.64	
31 68 13 00-0087	EA		1-1/4" Resin Cartridge 12" Long	4.44	
			For >3 To 9, Deduct	-0.33	
			For >9, Deduct	-0.69	
31 68 13 00-0088	EA		1-3/8" Resin Cartridge 12" Long	5.10	
			For >3 To 9, Deduct	-0.38	
			For >9, Deduct	-0.79	
31 68 13 00-0089	EA		1-9/16" Resin Cartridge 12" Long	6.39	
			For >3 To 9, Deduct	-0.48	
			For >9, Deduct	-0.99	
31 68 13 00-0090	EA		1-3/4" Resin Cartridge 12" Long	8.77	
			For >3 To 9, Deduct	-0.66	
			For >9, Deduct	-1.36	
31 68 13 00-0091			Head Assembly (31 68 13 00-0001)		
31 68 13 00-0092			3/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0093	EA		3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	41.97	
			For >3 To 9, Deduct	-3.15	
			For >9, Deduct	-6.51	
31 68 13 00-0094	EA		3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	35.35	
			For >3 To 9, Deduct	-2.65	
			For >9, Deduct	-5.48	
31 68 13 00-0095	EA		3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	37.08	
			For >3 To 9, Deduct	-2.78	
			For >9, Deduct	-5.75	
31 68 13 00-0096	EA		3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	66.57	
			For >3 To 9, Deduct	-4.99	
			For >9, Deduct	-10.32	
31 68 13 00-0097	EA		3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	66.57	
			For >3 To 9, Deduct	-4.99	
			For >9, Deduct	-10.32	
31 68 13 00-0098	EA		3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	63.07	
			For >3 To 9, Deduct	-4.73	
			For >9, Deduct	-9.78	
31 68 13 00-0099			1" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0100	EA		1" Rod Head Assembly 1-5/8" Short Cone and Shell	45.23	
			For >3 To 9, Deduct	-3.39	
			For >9, Deduct	-7.01	
31 68 13 00-0101	EA		1" Rod Head Assembly 1-3/4" Short Cone and Shell	38.71	
			For >3 To 9, Deduct	-2.90	
			For >9, Deduct	-6.00	
31 68 13 00-0102	EA		1" Rod Head Assembly 1-7/8" Short Cone and Shell	40.43	
			For >3 To 9, Deduct	-3.03	
			For >9, Deduct	-6.27	
31 68 13 00-0103	EA		1" Rod Head Assembly 1-3/4" Long Cone and Shell	70.03	
			For >3 To 9, Deduct	-5.25	
			For >9, Deduct	-10.85	
31 68 13 00-0104	EA		1" Rod Head Assembly 1-7/8" Long Cone and Shell	70.03	
			For >3 To 9, Deduct	-5.25	
			For >9, Deduct	-10.85	
31 68 13 00-0105	EA		1" Rod Head Assembly 1-3/4" Long Cone and Shell	66.77	
			For >3 To 9, Deduct	-5.01	
			For >9, Deduct	-10.35	
31 68 13 00-0106			1-1/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0107	EA		1-1/4" Rod Head Assembly 2" Short Cone and Shell	100.92	
			For >3 To 9, Deduct	-7.57	
			For >9, Deduct	-15.64	
31 68 13 00-0108	EA		1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	117.90	
			For >3 To 9, Deduct	-8.84	
			For >9, Deduct	-18.27	
31 68 13 00-0109	EA		1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	119.57	
			For >3 To 9, Deduct	-8.97	
			For >9, Deduct	-18.53	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0110	EA		1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell.....	106.05	
			For >3 To 9, Deduct	-7.95	
			For >9, Deduct	-16.44	
31 68 13 00-0111	EA		1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell.....	123.65	
			For >3 To 9, Deduct	-9.27	
			For >9, Deduct	-19.17	
31 68 13 00-0112			1-7/8" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0113	EA		1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl.....	397.19	
			For >3 To 9, Deduct	-29.79	
			For >9, Deduct	-61.56	
31 68 13 00-0114	EA		1-7/8" Rod Head Assembly 3" Long Cone and Shell.....	273.83	
			For >3 To 9, Deduct	-20.54	
			For >9, Deduct	-42.44	
31 68 13 00-0115			2" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0116	EA		2" Rod Head Assembly 3-1/2" Long Cone/Shell/Fl.....	397.19	
			For >3 To 9, Deduct	-29.79	
			For >9, Deduct	-61.56	
31 68 13 00-0117	EA		2" Rod Head Assembly 3" Long Cone and Shell.....	273.83	
			For >3 To 9, Deduct	-20.54	
			For >9, Deduct	-42.44	
31 68 13 00-0118			Steel Plates With Standard Hole And Washers (31 68 13 00-0001)		
31 68 13 00-0119			Steel Plates (31 68 13 00-0118)		
31 68 13 00-0120	EA		1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer.....	3.31	
			For >3 To 9, Deduct	-0.25	
			For >9, Deduct	-0.51	
31 68 13 00-0121	EA		1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	6.11	
			For >3 To 9, Deduct	-0.46	
			For >9, Deduct	-0.95	
31 68 13 00-0122	EA		3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	8.50	
			For >3 To 9, Deduct	-0.64	
			For >9, Deduct	-1.32	
31 68 13 00-0123	EA		3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	14.91	
			For >3 To 9, Deduct	-1.12	
			For >9, Deduct	-2.31	
31 68 13 00-0124	EA		1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer.....	5.79	
			For >3 To 9, Deduct	-0.43	
			For >9, Deduct	-0.90	
31 68 13 00-0125	EA		1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	15.21	
			For >3 To 9, Deduct	-1.14	
			For >9, Deduct	-2.36	
31 68 13 00-0126	EA		3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer.....	25.24	
			For >3 To 9, Deduct	-1.89	
			For >9, Deduct	-3.91	
31 68 13 00-0127	EA		3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	35.76	
			For >3 To 9, Deduct	-2.68	
			For >9, Deduct	-5.54	
31 68 13 00-0128	EA		1" x 4" x 7" Steel Plate For Rock Bolt With Washer.....	21.46	
			For >3 To 9, Deduct	-1.61	
			For >9, Deduct	-3.33	
31 68 13 00-0129	EA		1" x 9" x 9" Steel Plate For Rock Bolt With Washer.....	60.72	
			For >3 To 9, Deduct	-4.55	
			For >9, Deduct	-9.41	
31 68 13 00-0130	EA		1" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	89.47	
			For >3 To 9, Deduct	-6.71	
			For >9, Deduct	-13.87	
31 68 13 00-0131	EA		1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer.....	39.28	
			For >3 To 9, Deduct	-2.95	
			For >9, Deduct	-6.09	
31 68 13 00-0132	EA		1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer.....	106.23	
			For >3 To 9, Deduct	-7.97	
			For >9, Deduct	-16.47	
31 68 13 00-0133	EA		1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	53.12	
			For >3 To 9, Deduct	-3.98	
			For >9, Deduct	-8.23	
31 68 13 00-0134	EA		1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	127.77	
			For >3 To 9, Deduct	-9.58	
			For >9, Deduct	-19.80	
31 68 13 00-0135	EA		1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	58.64	
			For >3 To 9, Deduct	-4.40	
			For >9, Deduct	-9.09	
31 68 13 00-0136	EA		1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	141.71	
			For >3 To 9, Deduct	-10.63	
			For >9, Deduct	-21.97	
31 68 13 00-0137			Hardened Washers (31 68 13 00-0118)		

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0138 EA Hardened Washer For 3/4" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1.39 -0.10 -0.22	
31 68 13 00-0139 EA Hardened Washer For 1" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	1.92 -0.14 -0.30	
31 68 13 00-0140 EA Hardened Washer For 1-1/4" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	5.37 -0.40 -0.83	
31 68 13 00-0141 EA Hardened Washer For 2" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	13.38 -1.00 -2.07	
31 68 13 00-0142 Beveled Washers (31 68 13 00-0118)		
31 68 13 00-0143 EA Beveled Washer For 3/4" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3.50 -0.26 -0.54	
31 68 13 00-0144 EA Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	3.45 -0.26 -0.53	
31 68 13 00-0145 EA Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	5.23 -0.39 -0.81	
31 68 13 00-0146 EA Beveled Washer For 1-1/2" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	22.35 -1.68 -3.46	
31 68 13 00-0147 EA Beveled Washer For 2" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	15.44 -1.16 -2.39	
31 68 13 00-0148 Hex Nuts (31 68 13 00-0118)		
31 68 13 00-0149 EA Hex Nut For 3/4" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	2.73 -0.20 -0.42	
31 68 13 00-0150 EA Hex Nut For 1" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	4.46 -0.33 -0.69	
31 68 13 00-0151 EA Hex Nut For 1-1/4" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	18.27 -1.37 -2.83	
31 68 13 00-0152 EA Hex Nut For 1-1/2" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	11.51 -0.86 -1.78	
31 68 13 00-0153 EA Hex Nut For 2" Diameter Rock Bolt <i>For >3 To 9, Deduct</i> <i>For >9, Deduct</i>	73.43 -5.51 -11.38	
31 68 13 00-0154 Drilling Operation For Rock Bolts (31 68 13)		
31 68 13 00-0155 Drill Holes For Rock Bolts (31 68 13 00-0154)		
31 68 13 00-0156 3/4" Diameter Bolt, 1-3/4" Hole (31 68 13 00-0155)		
31 68 13 00-0157 EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	199.08	
31 68 13 00-0158 EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	376.04	
31 68 13 00-0159 EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	564.05	
31 68 13 00-0160 EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	676.86	
31 68 13 00-0161 1" Diameter Bolt, 2" Hole (31 68 13 00-0155)		
31 68 13 00-0162 EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	260.33	
31 68 13 00-0163 EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	483.47	
31 68 13 00-0164 EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	676.86	
31 68 13 00-0165 EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	846.08	
31 68 13 00-0166 1-1/4" Diameter Bolt, 2-1/4" Hole (31 68 13 00-0155)		
31 68 13 00-0167 EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	282.03	
31 68 13 00-0168 EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	564.05	
31 68 13 00-0169 EA Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt.....	846.08	
31 68 13 00-0170 EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	1,128.10	
31 68 13 00-0171 2" Diameter Bolt, 3-1/2" Hole (31 68 13 00-0155)		
31 68 13 00-0172 EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt.....	338.43	
31 68 13 00-0173 EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	676.86	
31 68 13 00-0174 EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	1,128.10	
31 68 13 00-0175 EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,692.15	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0176 Tools (31 68 13)		
31 68 13 00-0177 Hydraulic Jacks, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0178 EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke	753.95	
For >3 To 9, Deduct	-56.55	
For >9, Deduct	-116.86	
31 68 13 00-0179 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke	1,111.10	
For >3 To 9, Deduct	-83.33	
For >9, Deduct	-172.22	
31 68 13 00-0180 EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	1,863.99	
For >3 To 9, Deduct	-139.80	
For >9, Deduct	-288.92	
31 68 13 00-0181 EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke	2,790.62	
For >3 To 9, Deduct	-209.30	
For >9, Deduct	-432.55	
31 68 13 00-0182 EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke	4,171.47	
For >3 To 9, Deduct	-312.86	
For >9, Deduct	-646.58	
31 68 13 00-0183 Torque Wrenches And Ratchet Adapter, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0184 0-500 Foot Pounds (0-678J) (31 68 13 00-0183)		
31 68 13 00-0185 EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental	263.83	
For >3 To 9, Deduct	-19.79	
For >9, Deduct	-40.89	
31 68 13 00-0186 EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds	165.38	
For >3 To 9, Deduct	-12.40	
For >9, Deduct	-25.63	
31 68 13 00-0187 EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental	429.53	
For >3 To 9, Deduct	-32.21	
For >9, Deduct	-66.58	
31 68 13 00-0188 0-600 Foot Pounds (0-814J) (31 68 13 00-0183)		
31 68 13 00-0189 EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental	299.55	
For >3 To 9, Deduct	-22.47	
For >9, Deduct	-46.43	
31 68 13 00-0190 Up To 1,000 Foot Pounds (0-1356J) (31 68 13 00-0183)		
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental	575.29	
For >3 To 9, Deduct	-43.15	
For >9, Deduct	-89.17	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental	141.89	
For >3 To 9, Deduct	-10.64	
For >9, Deduct	-21.99	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental	717.18	
For >3 To 9, Deduct	-53.79	
For >9, Deduct	-111.16	
31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier (31 68 13 00-0176)		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio	736.80	
For >3 To 9, Deduct	-55.26	
For >9, Deduct	-114.20	
31 68 13 00-0196 Pneumatic Drive Torque Wrench (31 68 13 00-0176)		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J)	1,576.57	
For >3 To 9, Deduct	-118.24	
For >9, Deduct	-244.37	
31 68 13 00-0198 Grouting (31 68 13)		
31 68 13 00-0199 Grouting With Pumps (31 68 13 00-0198)		
Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery	24.01	
For >3 To 9, Deduct	-0.99	
For >9, Deduct	-2.04	
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery	37.78	
For >3 To 9, Deduct	-0.99	
For >9, Deduct	-2.04	
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery	34.83	
For >3 To 9, Deduct	-0.99	
For >9, Deduct	-2.04	
31 68 13 00-0203 Grout Pumps, Monthly Rental (31 68 13 00-0198)		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental	175.13	
For >3 To 9, Deduct	-13.13	
For >9, Deduct	-27.15	

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 68	Foundation Anchors



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
31 68 13 00-0205	EA	Air Powered Programmable Feed Grout Pump Monthly Rental.....	1,473.24	
		<i>For >3 To 9, Deduct</i>	-110.49	
		<i>For >9, Deduct</i>	-228.35	
31 68 13 00-0206	EA	Air Powered, Piston Drive Grout Pump Monthly Rental.....	2,572.15	
		<i>For >3 To 9, Deduct</i>	-192.91	
		<i>For >9, Deduct</i>	-398.68	
31 68 13 00-0207		Rock Bolt Testing (31 68 13)		
31 68 13 00-0208	EA	Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing.....	622.43	
		<i>For >3 To 9, Deduct</i>	-46.68	
		<i>For >9, Deduct</i>	-96.48	

END OF SECTION 31



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Paving Cleaning		32 01 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001 Remove Painted Or Epoxy Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	2.30
		For Up To 250, Add	1.15
		For >250 To 1,000, Add	0.58
		For >5,000 To 10,000, Deduct	-0.35
		For >10,000 To 25,000, Deduct	-0.58
		For >25,000 To 50,000, Deduct	-0.81
		For >50,000, Deduct	-0.92
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.76
		For Up To 250, Add	1.38
		For >250 To 1,000, Add	0.69
		For >5,000 To 10,000, Deduct	-0.41
		For >10,000 To 25,000, Deduct	-0.69
		For >25,000 To 50,000, Deduct	-0.97
		For >50,000, Deduct	-1.10
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	3.31
		For Up To 250, Add	1.66
		For >250 To 1,000, Add	0.83
		For >5,000 To 10,000, Deduct	-0.50
		For >10,000 To 25,000, Deduct	-0.83
		For >25,000 To 50,000, Deduct	-1.16
		For >50,000, Deduct	-1.32
32 01 11 53-0005	LF	Removal Of 10" Wide Painted Or Epoxy Pavement Striping	3.16
		For Up To 250, Add	1.58
		For >250 To 1,000, Add	0.79
		For >5,000 To 10,000, Deduct	-0.47
		For >10,000 To 25,000, Deduct	-0.79
		For >25,000 To 50,000, Deduct	-1.11
		For >50,000, Deduct	-1.26
32 01 11 53-0006	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.96
		For Up To 250, Add	1.98
		For >250 To 1,000, Add	0.99
		For >5,000 To 10,000, Deduct	-0.59
		For >10,000 To 25,000, Deduct	-0.99
		For >25,000 To 50,000, Deduct	-1.39
		For >50,000, Deduct	-1.58
32 01 11 53-0007	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.96
		For Up To 250, Add	1.98
		For >250 To 1,000, Add	0.99
		For >5,000 To 10,000, Deduct	-0.59
		For >10,000 To 25,000, Deduct	-0.99
		For >25,000 To 50,000, Deduct	-1.39
		For >50,000, Deduct	-1.58

32 01 11 53-0008 Remove Thermoplastic Pavement Markings ^(32 01 11 53)

32 01 11 53-0009	LF	Removal Of 4" Wide Thermoplastic Pavement Striping	2.96
		For Up To 250, Add	1.48
		For >250 To 1,000, Add	0.74
		For >5,000 To 10,000, Deduct	-0.44
		For >10,000 To 25,000, Deduct	-0.74
		For >25,000 To 50,000, Deduct	-1.04
		For >50,000, Deduct	-1.18
32 01 11 53-0010	LF	Removal Of 6" Wide Thermoplastic Pavement Striping	3.49
		For Up To 250, Add	1.75
		For >250 To 1,000, Add	0.87
		For >5,000 To 10,000, Deduct	-0.52
		For >10,000 To 25,000, Deduct	-0.87
		For >25,000 To 50,000, Deduct	-1.22
		For >50,000, Deduct	-1.40
32 01 11 53-0011	LF	Removal Of 8" Wide Thermoplastic Pavement Striping	4.22
		For Up To 250, Add	2.11
		For >250 To 1,000, Add	1.06
		For >5,000 To 10,000, Deduct	-0.63
		For >10,000 To 25,000, Deduct	-1.06
		For >25,000 To 50,000, Deduct	-1.48
		For >50,000, Deduct	-1.69
32 01 11 53-0012	LF	Removal Of 10" Wide Thermoplastic Pavement Striping	4.02
		For Up To 250, Add	2.01
		For >250 To 1,000, Add	1.01
		For >5,000 To 10,000, Deduct	-0.60
		For >10,000 To 25,000, Deduct	-1.01
		For >25,000 To 50,000, Deduct	-1.41
		For >50,000, Deduct	-1.61

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 11 Paving Cleaning**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 11 53-0013 LF Removal Of 12" Wide Thermoplastic Pavement Striping.....	5.05	
For Up To 250, Add	2.53	
For >250 To 1,000, Add	1.26	
For >5,000 To 10,000, Deduct	-0.76	
For >10,000 To 25,000, Deduct	-1.26	
For >25,000 To 50,000, Deduct	-1.77	
For >50,000, Deduct	-2.02	
32 01 11 53-0014 SF Removal Of Thermoplastic Pavement Marking, Letters Or Symbols.....	5.05	
For Up To 250, Add	2.53	
For >250 To 1,000, Add	1.26	
For >5,000 To 10,000, Deduct	-0.76	
For >10,000 To 25,000, Deduct	-1.26	
For >25,000 To 50,000, Deduct	-1.77	
For >50,000, Deduct	-2.02	

32 01 13 Flexible Paving Surface Treatment (32 01)**32 01 13 61 Slurry Seal (Latex Modified)** (32 01 13)**32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot** (32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002 EA Asphalt Seal Coating Minimum Charge.....	936.13	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
32 01 13 61-0003 SY Up To 500 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.53	
32 01 13 61-0004 SY >500 To 1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.26	
32 01 13 61-0005 SY >1,000 SY, Type O Asphalt Seal Coating, No Aggregate, Per Coat.....	3.05	
32 01 13 61-0006 SY Up To 500 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.73	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0007 SY >500 To 1,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.52	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.46	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0008 SY >1,000 To 5,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.36	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.45	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0009 SY >5,000 To 20,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.21	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0010 SY >20,000 To 50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	3.21	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0011 SY >50,000 SY, Type I Slurry Seal Asphalt Coating, Per Coat.....	2.95	
Note: 1/8" thick.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.43	
For Each 0.5% Of Latex Addition, Add	0.33	
32 01 13 61-0012 SY Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	5.04	
Note: 1/4" thick, 14 to 18 Lb/SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.34	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.40	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.50	
For Each 0.5% Of Latex Addition, Add	0.49	
32 01 13 61-0013 SY >500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.71	
Note: 1/4" thick, 14 to 18 Lb/SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.48	
For Each 0.5% Of Latex Addition, Add	0.49	
32 01 13 61-0014 SY >1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.46	
Note: 1/4" thick, 14 to 18 Lb/SY.		
For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
For Each 0.5% Of Latex Addition, Add	0.49	



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Flexible Paving Surface Treatment		32 01 13

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 61-0015	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	4.24		
		Note: 1/4" thick, 14 to 18 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46		
		For Each 0.5% Of Latex Addition, Add	0.49		
32 01 13 61-0016	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	4.02		
		Note: 1/4" thick, 14 to 18 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44		
		For Each 0.5% Of Latex Addition, Add	0.49		
32 01 13 61-0017	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.82		
		Note: 1/4" thick, 14 to 18 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.43		
		For Each 0.5% Of Latex Addition, Add	0.49		
32 01 13 61-0018	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat	6.36		
		Note: 3/8" thick, 25 to 30 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.35		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.41		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.51		
		For Each 0.5% Of Latex Addition, Add	0.80		
32 01 13 61-0019	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	6.01		
		Note: 3/8" thick, 25 to 30 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.33		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.39		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.49		
		For Each 0.5% Of Latex Addition, Add	0.80		
32 01 13 61-0020	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	5.75		
		Note: 3/8" thick, 25 to 30 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47		
		For Each 0.5% Of Latex Addition, Add	0.80		
32 01 13 61-0021	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	5.50		
		Note: 3/8" thick, 25 to 30 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46		
		For Each 0.5% Of Latex Addition, Add	0.80		
32 01 13 61-0022	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	5.27		
		Note: 3/8" thick, 25 to 30 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45		
		For Each 0.5% Of Latex Addition, Add	0.80		
32 01 13 61-0023	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	5.06		
		Note: 3/8" thick, 25 to 30 Lb/SY.			
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28		
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34		
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44		
		For Each 0.5% Of Latex Addition, Add	0.80		

32 01 13 62 Asphalt Surface Treatment (32 01 13)

32 01 13 62-0001	Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing) (32 01 13 62)				
	Note: Use a blend of emulsified quickset polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.				
32 01 13 62-0002	SY	Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	11.45		
32 01 13 62-0003	SY	Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.92		
32 01 13 62-0004	SY	>500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.44		
32 01 13 62-0005	SY	>1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.05		
32 01 13 62-0006	SY	>5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.69		
32 01 13 62-0007	SY	>10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.37		
32 01 13 62-0008	SY	>20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.14		
32 01 13 62-0009	SY	>50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.03		

32 01 16 Flexible Paving Rehabilitation (32 01)

See CSI section 33 01 30 86-0000 for raising manhole frame and cover.

32 01 16 71 Cold Milling Asphalt Pavement (32 01 16)

32 01 16 71-0001	Removal Of Asphalt Surface Course (32 01 16 71)				
	Note: Includes direct loading into truck.				
32 01 16 71-0002	Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)				
	Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.				

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt.....	4.64	
For Up To 2,500, Add	3.48	
For >2,500 To 5,000, Add	1.16	
For >10,000 To 25,000, Deduct	-0.81	
For >25,000, Deduct	-1.16	
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt.....	5.86	
For Up To 2,500, Add	4.40	
For >2,500 To 5,000, Add	1.47	
For >10,000 To 25,000, Deduct	-1.03	
For >25,000, Deduct	-1.47	
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt.....	7.80	
For Up To 2,500, Add	5.85	
For >2,500 To 5,000, Add	1.95	
For >10,000 To 25,000, Deduct	-1.37	
For >25,000, Deduct	-1.95	
32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)		
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.		
32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt.....	30.89	
For >100 To 1,000, Deduct	-15.45	
For >1,000, Deduct	-23.17	
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt.....	40.90	
For >100 To 1,000, Deduct	-20.45	
For >1,000, Deduct	-30.68	
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt.....	54.47	
For >100 To 1,000, Deduct	-27.24	
For >1,000, Deduct	-40.85	
32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)		
Note: For use as subbase material, includes spreading and rolling.		
32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth.....	8.05	
32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)		
32 01 16 73-0001 Cold-In-Place-Full Depth Reclamation With Foam Asphalt (FDR-FA) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0002 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	5.44	
For >12" To 18" Depth, Add	1.87	
32 01 16 73-0003 SF >30,000 To 42,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	5.08	
For >12" To 18" Depth, Add	1.76	
32 01 16 73-0004 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	4.29	
For >12" To 18" Depth, Add	1.52	
32 01 16 73-0005 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.68	
For >12" To 18" Depth, Add	1.34	
32 01 16 73-0006 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.31	
For >12" To 18" Depth, Add	1.23	
32 01 16 73-0007 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	3.06	
For >12" To 18" Depth, Add	1.15	
32 01 16 73-0008 SF >500,000 SF Cold In Place Full Depth Reclamation With Foam Asphalt (FDR-FA).....	2.89	
For >12" To 18" Depth, Add	1.10	
32 01 16 73-0009 Cold-In-Place-Full Depth Reclamation Process With Cement (FDR-C) (32 01 16 73)		
Note: Includes milling Up To 12" of existing AC surface. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.		
32 01 16 73-0010 SF Up To 30,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	5.48	
For >12" To 18" Depth, Add	1.89	
32 01 16 73-0011 SF >42,000 To 71,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	4.33	
For >12" To 18" Depth, Add	1.54	
32 01 16 73-0012 SF >71,000 To 130,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.72	
For >12" To 18" Depth, Add	1.36	
32 01 16 73-0013 SF >130,000 To 250,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.35	
For >12" To 18" Depth, Add	1.25	
32 01 16 73-0014 SF >250,000 To 500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	3.10	
For >12" To 18" Depth, Add	1.17	
32 01 16 73-0015 SF >500,000 SF Cold In Place Full Depth Reclamation With Cement (FDR-C).....	2.93	
For >12" To 18" Depth, Add	1.12	
32 01 16 73-0016 Supplemental Aggregate (32 01 16 73)		
32 01 16 73-0017 TON Supplemental Aggregate.....	84.88	
32 01 16 73-0018 Cold-In-Place Recycling (CALTRAN) (32 01 16 73)		



Exterior Improvements			32
Operation and Maintenance of Exterior Improvements			32 01
Flexible Paving Rehabilitation			32 01 16

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 73-0019 TON Sand Cover (CIPR).....	58.00	
For >500 To 1,000, Deduct	-1.45	
For >1,000 To 2,500, Deduct	-2.90	
For >2,500 To 5,000, Deduct	-4.06	
For >5,000, Deduct	-5.22	
32 01 16 73-0020 SY Cold In Place Recycling (CIPR).....	6.50	
For >10,000 To 25,000, Deduct	-0.65	
For >25,000, Deduct	-0.98	
32 01 16 73-0021 TON Cement (CIPR).....	135.00	
For >500 To 1,000, Deduct	-3.38	
For >1,000 To 2,500, Deduct	-6.75	
For >2,500 To 5,000, Deduct	-9.45	
For >5,000, Deduct	-12.15	
32 01 16 73-0022 TON Emulsified Recycling Agent (CIPR)	610.00	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,500, Deduct	-30.50	
For >2,500 To 5,000, Deduct	-42.70	
For >5,000, Deduct	-54.90	
32 01 16 73-0023 TON Asphaltic Emulsion (CIPR)	610.00	
For >500 To 1,000, Deduct	-15.25	
For >1,000 To 2,500, Deduct	-30.50	
For >2,500 To 5,000, Deduct	-42.70	
For >5,000, Deduct	-54.90	

32 01 16 74 In Place Hot Reused Asphalt Paving (32 01 16)**32 01 16 74-0001 Reclamation, Pulverize And Blending With Existing** (32 01 16 74)

Note: Includes direct loading into truck.

32 01 16 74-0002 SY Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	16.64
32 01 16 74-0003 SY Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.32
32 01 16 74-0004 SY Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.16
32 01 16 74-0005 SY Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.95
32 01 16 74-0006 SY >2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.54
32 01 16 74-0007 SY >2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	18.15
32 01 16 74-0008 SY >2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.07
32 01 16 74-0009 SY >2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.28
32 01 16 74-0010 SY >3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	19.97
32 01 16 74-0011 SY >3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.98
32 01 16 74-0012 SY >3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.99
32 01 16 74-0013 SY >3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.60
32 01 16 74-0014 SY >4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	21.78
32 01 16 74-0015 SY >4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	10.89
32 01 16 74-0016 SY >4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.45
32 01 16 74-0017 SY >4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.07
32 01 16 74-0018 EA Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,871.83

32 01 16 74-0019 Rejuvenate And Respread Asphalt Pavement (32 01 16 74)

Note: Includes direct loading into truck.

32 01 16 74-0020 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep	11.55
32 01 16 74-0021 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	13.78
32 01 16 74-0022 TON Removal, Rejuvenation, And Respreading Of Asphalt Grindings	210.08

32 01 17 Flexible Paving Repair (32 01)

See CSI section 32 12 16 00-0000 for large area resurfacing.

32 01 17 61 Sealing Cracks in Asphalt Paving (32 01 17)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair (32 01 17 61)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0002 LF Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler	1.94
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.	
For 3/4" x 1/2" Fill, Add	0.56
For 1" x 1/2" Fill, Add	1.06
For Backer Rod, Add	1.15

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0003 LF >200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler 1.58 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.46 For 1" x 1/2" Fill, Add 0.88 For Backer Rod, Add 1.03		
32 01 17 61-0004 LF >500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler 1.26 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.38 For 1" x 1/2" Fill, Add 0.72 For Backer Rod, Add 0.92		
32 01 17 61-0005 LF >2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler 1.10 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.33 For 1" x 1/2" Fill, Add 0.64 For Backer Rod, Add 0.86		
32 01 17 61-0006 LF >5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler 0.97 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.29 For 1" x 1/2" Fill, Add 0.56 For Backer Rod, Add 0.80		
32 01 17 61-0007 LF >10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler 0.89 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.27 For 1" x 1/2" Fill, Add 0.51 For Backer Rod, Add 0.76		
32 01 17 61-0008 LF Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 3.36 For 3/8" x 1/4" Fill, Add 0.79 For 1/2" x 1/4" Fill, Add 1.46 For 1/2" x 1/2" Fill, Add 3.50		
32 01 17 61-0009 LF >200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 2.72 For 3/8" x 1/4" Fill, Add 0.66 For 1/2" x 1/4" Fill, Add 1.21 For 1/2" x 1/2" Fill, Add 2.93		
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 2.10 For 3/8" x 1/4" Fill, Add 0.52 For 1/2" x 1/4" Fill, Add 0.96 For 1/2" x 1/2" Fill, Add 2.35		
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 1.85 For 3/8" x 1/4" Fill, Add 0.46 For 1/2" x 1/4" Fill, Add 0.85 For 1/2" x 1/2" Fill, Add 2.09		
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 1.66 For 3/8" x 1/4" Fill, Add 0.41 For 1/2" x 1/4" Fill, Add 0.76 For 1/2" x 1/2" Fill, Add 1.86		
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 1.56 For 3/8" x 1/4" Fill, Add 0.38 For 1/2" x 1/4" Fill, Add 0.71 For 1/2" x 1/2" Fill, Add 1.72		
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth 0.58		
32 01 17 61-0015 LNMI Crack Seal/Filler Per Lane (10' to 12' Wide) Per Mile 4,149.06 Note: This work shall consist of removal of loose matter from cracks with brooms and compressed air and sealing the crack with rubber or other elastomeric modified asphalt, ASTM D 1190, D 3405 or AASHTO M-173. The sealant shall be applied from the bottom of the crack up and the sealant material shall be sprinkled with dry sand to prevent pick-up by traffic.		

32 01 17 63 Flexible Pavement Repair (32 01 17)**32 01 17 63-0001 Temporary Pot Hole Repair** (32 01 17 63)

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons 1,789.66	
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified 540.69 Note: Use for each ton over 3 tons.	
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons 1,712.00	
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix 514.80 Note: Use for each ton over 3 tons.	
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons 1,673.17	
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified 501.86 Note: Use for each ton over 3 tons.	
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons 1,634.34	
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix 488.92 Note: Use for each ton over 3 tons.	

32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)

Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles. Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons 1,950.74	
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix 633.86 Note: Use for each ton over 3 tons.	
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons 1,911.91	



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Flexible Paving Repair		32 01 17

32

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 63-0014	TON	Permanent Pot Hole Repairs With Hot Mix Modified Note: Use for each ton over 3 tons.	620.92	
32 01 17 63-0015	EA	Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,873.08	
32 01 17 63-0016	TON	Permanent Pot Hole Repairs With Hot Mix Note: Use for each ton over 3 tons.	607.98	
32 01 17 63-0017		Asphalt Placement For Small Repairs (32 01 17 63) Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0057 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.		
32 01 17 63-0018	EA	Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons..... Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,541.68	
32 01 17 63-0019	TON	Asphalt Placement For Small Repair Areas, Cold Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	346.42	
32 01 17 63-0020	EA	Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,464.02	
32 01 17 63-0021	TON	Asphalt Placement For Small Repair Areas, Cold Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	320.53	
32 01 17 63-0022	EA	Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,425.19	
32 01 17 63-0023	TON	Asphalt Placement For Small Repair Areas, Hot Mix Modified Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	307.59	
32 01 17 63-0024	EA	Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	2,386.36	
32 01 17 63-0025	TON	Asphalt Placement For Small Repair Areas, Hot Mix..... Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	294.65	
32 01 17 63-0026		Grind Asphalt (32 01 17 63)		
32 01 17 63-0027	SY	Grinding Asphalt To Level Bump Or Raised Area.....	23.10	
32 01 26		Rigid Paving Rehabilitation (32 01)		
32 01 26 71		Grooving of Concrete Paving (32 01 26)		
32 01 26 71-0001		Roadway Grooving (32 01 26 71)		
32 01 26 71-0002	EA	First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	4,267.76	
32 01 26 71-0003	SY	Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal	3.95	
32 01 26 71-0004	EA	First 500 SY Of Pavement Grooving, Concrete, Traverse	4,754.44	
32 01 26 71-0005	SY	Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse	5.14	
32 01 26 71-0006		Rumble Strips (32 01 26 71)		
32 01 26 71-0007	EA	First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	4,764.83	
32 01 26 71-0008	LF	Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.87	
32 01 26 71-0009	EA	First 2,000 LF Of MIARDS, Rumble Strips, Concrete	5,309.97	
32 01 26 71-0010	LF	Each LF Over First 2,000 LF Of MIARDS, Rumble Strips, Concrete	0.97	
32 01 26 73		Milling Of Concrete Paving (32 01 26)		
32 01 26 73-0001		Removal Of Concrete (32 01 26 73) Note: Includes direct loading into truck.		
32 01 26 73-0002		Production Milling Of Roads And Parking Areas (32 01 26 73-0001) Note: For removal of entire lanes of roads or parking areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.		
32 01 26 73-0003	SY	Production Milling Of Concrete Per Inch.....	7.39	
32 01 26 73-0004		Limited Production Milling (32 01 26 73-0001) Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around manholes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0043 for hauling.		
32 01 26 73-0005	SY	Limited Production Milling Of Concrete Per Inch	46.42	
32 01 29		Rigid Paving Repair (32 01)		
32 01 29 61		Partial Depth Patching of Rigid Paving (32 01 29)		

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 29 Rigid Paving Repair**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 29 61-0001	Hot Applied Flexible Concrete Repair (32 01 29 61)	
	Note: Excludes saw cutting (where required), flagmen.	
32 01 29 61-0002	EA Hot Applied Flexible Concrete Repair Minimum Charge.....	1,285.32
	Note: For projects where the total Hot Applied Flexible Concrete Repair In Asphalt charge is less than the minimum charge, use task "Minimum Charge For Hot Applied Flexible Concrete Repair" exclusively. Task "Minimum Charge For Hot Applied Flexible Concrete Repair" should not be used in conjunction with any other tasks in this section.	
32 01 29 61-0003	SF Up To 2" Depth, Hot Applied Flexible Concrete Repair	71.49
	For >25 SF Quantity, Deduct	-7.15
32 01 29 61-0004	SF >2" To 4" Depth, Hot Applied Flexible Concrete Repair.....	134.29
	For >25 SF Quantity, Deduct	-13.43
32 01 29 61-0005	SF >4" To 6" Depth, Hot Applied Flexible Concrete Repair.....	196.51
	For >25 SF Quantity, Deduct	-19.65
32 01 29 61-0006	SF >6" To 8" Depth, Hot Applied Flexible Concrete Repair.....	258.74
	For >25 SF Quantity, Deduct	-25.87
32 01 29 61-0007	SF >8" To 10" Depth, Hot Applied Flexible Concrete Repair.....	320.96
	For >25 SF Quantity, Deduct	-32.10
32 01 29 61-0008	CF >10" Depth, Hot Applied Flexible Concrete Repair	382.61
32 01 29 61-0009	Cold Applied Flexible Concrete Repair (32 01 29 61)	
32 01 29 61-0010	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	7.02
32 01 29 61-0011	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	10.10
32 01 29 61-0012	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	13.29
32 01 29 61-0013	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	16.61
32 01 29 61-0014	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	23.71
32 01 29 61-0015	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	7.11
32 01 29 61-0016	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	10.19
32 01 29 61-0017	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	13.38
32 01 29 61-0018	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	16.70
32 01 29 61-0019	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R)	23.80
32 01 29 61-0020	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	7.06
32 01 29 61-0021	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	10.14
32 01 29 61-0022	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	13.33
32 01 29 61-0023	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	16.65
32 01 29 61-0024	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	23.75

32 01 90 Operation and Maintenance of Planting (32 01)

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

32 01 90 13 Fertilizing (32 01 90)

32 01 90 13-0001	MSF Fertilizer - 2 Lb. Of Nitrogen/MSF (Granular).....	16.29
32 01 90 13-0002	MSF Fertilizer - 2 Lb. Of Nitrogen/MSF (Liquid)	11.76
32 01 90 13-0003	MSF Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Granular).....	12.88
32 01 90 13-0004	MSF Fertilizer - 0.5 Lb. Of Nitrogen/MSF (Liquid)	10.53

32 01 90 19 Mowing (32 01 90)

32 01 90 19-0001	ACR Vegetation Cutting By Bush Hog	226.83
	Note: Includes normal debris removal, cutting, and trimming.	
	For <1 Acre, Add	56.71
32 01 90 19-0002	MSF Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF.....	7.86
32 01 90 19-0003	MSF Mowing Vegetation With Riding Mower, >45,000 SF	6.09
32 01 90 19-0004	MSF Clear Vegetation With Weed Trimmer, Up To 1,000 SF	26.23
	For Work On Slopes >2:1, Add	6.56
	For Clearing Light Brush, Add	3.93
32 01 90 19-0005	MSF Clear Vegetation With Weed Trimmer, >1,000 SF.....	22.03
	For Work On Slopes >2:1, Add	5.51
	For Clearing Light Brush, Add	3.30
32 01 90 19-0006	MSF Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	23.17

32 01 90 23 Pruning (32 01 90)**32 01 90 23-0001 Tree Pruning** (32 01 90 23)

Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.

32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)

Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.

32 01 90 23-0003	EA 1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	33.07
32 01 90 23-0004	EA 2" Caliper, Tree Pruning (Crown Cleaning), By Hand	37.81
32 01 90 23-0005	EA 2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	42.53
32 01 90 23-0006	EA 3" Caliper, Tree Pruning (Crown Cleaning), By Hand	47.26
32 01 90 23-0007	EA 4" Caliper, Tree Pruning (Crown Cleaning), By Hand	71.81
32 01 90 23-0008	EA 4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	118.63
32 01 90 23-0009	EA 6" Caliper, Tree Pruning (Crown Cleaning), By Hand	125.67
32 01 90 23-0010	EA 6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	225.95
32 01 90 23-0011	EA 9" Caliper, Tree Pruning (Crown Cleaning), By Hand	201.25
32 01 90 23-0012	EA 9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	361.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0013 EA 12" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	232.55	
32 01 90 23-0014 EA 12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	417.98	
32 01 90 23-0015 EA 18" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	270.34	
32 01 90 23-0016 EA 18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	485.77	
32 01 90 23-0017 EA 24" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	329.07	
32 01 90 23-0018 EA 24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	587.53	
32 01 90 23-0019 EA 30" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	408.78	
32 01 90 23-0020 EA 30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	740.48	
32 01 90 23-0021 EA 36" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	559.89	
32 01 90 23-0022 EA 36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	1,003.59	
32 01 90 23-0023 EA 48" Caliper, Tree Pruning (Crown Cleaning), By Hand.....	888.24	
32 01 90 23-0024 EA 48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment.....	1,613.94	

32 01 90 23-0025

Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026 EA 1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	40.55
32 01 90 23-0027 EA 2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	46.31
32 01 90 23-0028 EA 2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand.....	52.07
32 01 90 23-0029 EA 3" Caliper, Tree Pruning (Crown Thinning), By Hand.....	57.94
32 01 90 23-0030 EA 4" Caliper, Tree Pruning (Crown Thinning), By Hand.....	87.99
32 01 90 23-0031 EA 4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	145.28
32 01 90 23-0032 EA 6" Caliper, Tree Pruning (Crown Thinning), By Hand.....	153.95
32 01 90 23-0033 EA 6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	276.79
32 01 90 23-0034 EA 9" Caliper, Tree Pruning (Crown Thinning), By Hand.....	246.57
32 01 90 23-0035 EA 9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	442.75
32 01 90 23-0036 EA 12" Caliper, Tree Pruning (Crown Thinning), By Hand.....	284.85
32 01 90 23-0037 EA 12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	512.00
32 01 90 23-0038 EA 18" Caliper, Tree Pruning (Crown Thinning), By Hand.....	331.16
32 01 90 23-0039 EA 18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	595.04
32 01 90 23-0040 EA 24" Caliper, Tree Pruning (Crown Thinning), By Hand.....	403.08
32 01 90 23-0041 EA 24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	719.76
32 01 90 23-0042 EA 30" Caliper, Tree Pruning (Crown Thinning), By Hand.....	500.71
32 01 90 23-0043 EA 30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	907.08
32 01 90 23-0044 EA 36" Caliper, Tree Pruning (Crown Thinning), By Hand.....	685.85
32 01 90 23-0045 EA 36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	1,229.40
32 01 90 23-0046 EA 48" Caliper, Tree Pruning (Crown Thinning), By Hand.....	1,088.09
32 01 90 23-0047 EA 48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment.....	1,977.07

32 01 90 23-0048

Tree Pruning; Crown Raising (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049 EA 1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	44.70
32 01 90 23-0050 EA 2" Caliper, Tree Pruning (Crown Raising), By Hand.....	51.04
32 01 90 23-0051 EA 2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand.....	57.46
32 01 90 23-0052 EA 3" Caliper, Tree Pruning (Crown Raising), By Hand.....	63.80
32 01 90 23-0053 EA 4" Caliper, Tree Pruning (Crown Raising), By Hand.....	96.96
32 01 90 23-0054 EA 4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	160.19
32 01 90 23-0055 EA 6" Caliper, Tree Pruning (Crown Raising), By Hand.....	169.65
32 01 90 23-0056 EA 6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	305.04
32 01 90 23-0057 EA 9" Caliper, Tree Pruning (Crown Raising), By Hand.....	271.71
32 01 90 23-0058 EA 9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	487.94
32 01 90 23-0059 EA 12" Caliper, Tree Pruning (Crown Raising), By Hand.....	313.96
32 01 90 23-0060 EA 12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	564.31
32 01 90 23-0061 EA 18" Caliper, Tree Pruning (Crown Raising), By Hand.....	365.00
32 01 90 23-0062 EA 18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	655.82
32 01 90 23-0063 EA 24" Caliper, Tree Pruning (Crown Raising), By Hand.....	444.29
32 01 90 23-0064 EA 24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	793.20
32 01 90 23-0065 EA 30" Caliper, Tree Pruning (Crown Raising), By Hand.....	551.84
32 01 90 23-0066 EA 30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	999.61
32 01 90 23-0067 EA 36" Caliper, Tree Pruning (Crown Raising), By Hand.....	755.89
32 01 90 23-0068 EA 36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	1,354.80
32 01 90 23-0069 EA 48" Caliper, Tree Pruning (Crown Raising), By Hand.....	1,199.14
32 01 90 23-0070 EA 48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment.....	2,178.85

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0071**Tree Pruning; Crown Reduction** (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	48.01
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	54.81
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand.....	61.71
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand.....	68.52
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand.....	104.15
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	172.06
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand.....	182.21
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	327.63
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand.....	291.84
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	524.10
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand.....	337.21
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	606.12
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand.....	392.03
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	704.40
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand.....	477.17
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	851.95
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand.....	592.76
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,073.72
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand.....	811.83
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	1,455.23
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand.....	1,287.97
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment.....	2,340.17

32 01 90 23-0094**Tree Pruning; Crown Restoration** (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several pruning's over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	55.10
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	63.04
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand.....	70.88
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand.....	78.72
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand.....	119.65
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	197.70
32 01 90 23-0101	EA	6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	209.43
32 01 90 23-0102	EA	6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	376.54
32 01 90 23-0103	EA	9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	335.42
32 01 90 23-0104	EA	9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	602.38
32 01 90 23-0105	EA	12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	387.58
32 01 90 23-0106	EA	12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	696.61
32 01 90 23-0107	EA	18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	450.53
32 01 90 23-0108	EA	18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	809.58
32 01 90 23-0109	EA	24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	548.43
32 01 90 23-0110	EA	24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	979.27
32 01 90 23-0111	EA	30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	681.31
32 01 90 23-0112	EA	30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,234.14
32 01 90 23-0113	EA	36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	933.18
32 01 90 23-0114	EA	36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	1,672.71
32 01 90 23-0115	EA	48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,480.39
32 01 90 23-0116	EA	48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment.....	2,689.94

32 01 90 23-0117**Palm Tree Pruning** (32 01 90 23)

32 01 90 23-0118	EA	Trim Mexican Palm Tree.....	100.20
32 01 90 23-0119	EA	Trim Date Palm Tree.....	226.09
32 01 90 23-0120	LF	Skin Palm Tree.....	25.69
32 01 90 23-0121	EA	Trim And Skin Palm Tree, Up To 30' Height.....	96.03
32 01 90 23-0122	EA	Trim And Skin Palm Tree, >30' To 60' Height.....	118.62
32 01 90 23-0123	EA	Trim And Skin Palm Tree, >60' To 80' Height.....	132.74

32 01 90 23-0124**Shrub Pruning** (32 01 90 23)

32 01 90 23-0125	MSF	Shrub Pruning, Prune, Shrub Bed.....	107.69
32 01 90 23-0126	EA	Shrub Pruning, Prune, Shrub Under 3' Height.....	3.78
32 01 90 23-0127	EA	Shrub Pruning, Prune, Shrub 4' Height.....	8.51
32 01 90 23-0128	EA	Shrub Pruning, Prune, Shrub Over 6'.....	15.12
32 01 90 23-0129	EA	Shrub Pruning, Prune Trees From Ground.....	37.81
32 01 90 23-0130	EA	Shrub Pruning, Prune Trees From Ground, High Work.....	94.51



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Operation and Maintenance of Planting		32 01 90

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90	23-0131		Root Pruning (32 01 90 23) Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90	23-0132	EA	Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	18.90	
32 01 90	23-0133	EA	Root Pruning, One Side Of 2" Caliper Tree	23.63	
32 01 90	23-0134	EA	Root Pruning, One Side Of 2-1/2" Caliper Tree	28.35	
32 01 90	23-0135	EA	Root Pruning, One Side Of 3" Caliper Tree	37.81	
32 01 90	23-0136	EA	Root Pruning, One Side Of 4" Caliper Tree	56.70	
32 01 90	23-0137	EA	Root Pruning, One Side Of >4" To 6" Caliper Tree.....	70.88	
32 01 90	23-0138	EA	Root Pruning, One Side Of >6" To 9" Caliper Tree.....	99.23	
32 01 90	23-0139	EA	Root Pruning, One Side Of >9" To 12" Caliper Tree.....	113.41	
32 01 90	23-0140	EA	Root Pruning, One Side Of >12" To 18" Caliper Tree.....	132.31	
32 01 90	23-0141	EA	Root Pruning, One Side Of >18" To 24" Caliper Tree	165.39	
32 01 90	23-0142	EA	Root Pruning, One Side Of >24" To 30" Caliper Tree.....	203.19	
32 01 90	23-0143	EA	Root Pruning, One Side Of >30" To 36" Caliper Tree.....	236.28	
32 01 90	23-0144	EA	Root Pruning, One Side Of >36" To 42" Caliper Tree.....	259.90	
32 01 90	23-0145	EA	Root Pruning, One Side Of >42" To 48" Caliper Tree.....	283.53	
32 01 90	26		Watering (32 01 90) Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
32 01 90	26-0001		Watering Lawns, Plants And Trees (32 01 90 26) Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for additional watering beyond initial watering at installation for extended watering period of lawns, plants and trees.		
32 01 90	26-0002	MSF	Watering Sod/Grass, Per Inch Of Water	49.68	
32 01 90	26-0003	CSF	Watering Groundcover.....	7.66	
32 01 90	26-0004	CSF	Watering Annuals And Perennials	13.54	
32 01 90	26-0005	EA	Watering Trees, 1-1/2" To 5" Diameter By Hand	26.14	
32 01 90	26-0006	EA	Watering Trees, 6" To 12" Diameter By Hand	34.37	
32 01 90	26-0007	EA	Watering Trees, 13" To 18" Diameter By Hand	42.59	
32 01 90	26-0008	EA	Watering Trees, >18" Diameter By Hand.....	52.43	
32 01 90	26-0009	EA	Watering Shrub Or Bush By Hand.....	13.14	
32 01 90	36		Weed and Brush Control (32 01 90) 32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied (32 01 90 36)		
32 01 90	36-0002	MSF	Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF).....	8.84	
			For >45 To 90, Deduct	-0.48	
			For >90 To 225, Deduct	-1.37	
			For >225 To 870, Deduct	-2.25	
			For >870, Deduct	-2.74	
32 01 90	36-0003	MSF	Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF).....	9.52	
			For >45 To 90, Deduct	-0.55	
			For >90 To 225, Deduct	-1.50	
			For >225 To 870, Deduct	-2.46	
			For >870, Deduct	-3.01	
32 01 90	36-0004	MSF	Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF).....	9.48	
			Note: Includes pre and post emergent.		
			For >45 To 90, Deduct	-0.55	
			For >90 To 225, Deduct	-1.50	
			For >225 To 870, Deduct	-2.44	
			For >870, Deduct	-2.99	
32 01 90	36-0005	MSF	Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF)	9.90	
			Note: Includes pre and post emergent.		
			For >45 To 90, Deduct	-0.59	
			For >90 To 225, Deduct	-1.58	
			For >225 To 870, Deduct	-2.57	
			For >870, Deduct	-3.16	
32 01 90	39		Pesticides (32 01 90)		
32 01 90	39-0001	MSF	Pesticide - Surface Eating	12.28	
32 01 90	39-0002	MSF	Pesticide - Subsurface Eating.....	12.33	
32 01 90	39-0003	MSF	Pesticide - Fungicide Application	13.39	
32 01 90	43		Weed and Cultivate Beds (32 01 90)		
32 01 90	43-0001	MSF	Weed Mulched Bed	46.27	
32 01 90	43-0002	MSF	Weed Unmulched Bed.....	132.18	
32 01 90	43-0003	MSF	Cultivate Bed	71.17	
32 01 90	46		Hedge Trimming (32 01 90)		
32 01 90	46-0001	LF	Trim 0-5' High Hedge, 0-3' Wide.....	6.19	
32 01 90	46-0002	LF	Trim 0-5' High Hedge, 4-6' Wide.....	9.28	
32 01 90	46-0003	LF	Trim 5-10' High Hedge, 0-3' Wide.....	14.06	
32 01 90	46-0004	LF	Trim 5-10' High Hedge, 4-6' Wide.....	14.33	

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001 EA Plant Growth Regulator Application 6.99

32 05 Common Work Results for Exterior Improvements (32)**32 05 33 Common Work Results for Planting (32 05)****32 05 33 00-0001 Decorative Landscape Boulders (32 05 33)**

Note: Includes delivery of materials and placement.

32 05 33 00-0002	EA	1'-6" x 2' x 1' Oval Shape Boulders (Approx. 250 Lb. Each)	87.35
32 05 33 00-0003	EA	1'-6" x 2' x 1'-6" Oval Shape Boulders (Approx. 375 Lb. Each)	131.03
32 05 33 00-0004	EA	2' x 2' x 1'-6" Oval Shape Boulders (Approx. 500 Lb. Each)	174.71
32 05 33 00-0005	EA	2' x 2' x 2' Oval Shape Boulders (Approx. 667 Lb. Each)	233.08
32 05 33 00-0006	EA	2' x 3' x 1'-6" Oval Shape Boulders (Approx. 750 Lb. Each)	262.35
32 05 33 00-0007	EA	2' x 3' x 2' Oval Shape Boulders (Approx. 1,000 Lb. Each)	349.80
32 05 33 00-0008	EA	2'-6" x 3' x 2' Oval Shape Boulders (Approx. 1,250 Lb. Each)	437.25
32 05 33 00-0009	EA	3' x 3' x 2' Oval Shape Boulders (Approx. 1,500 Lb. Each)	524.70
32 05 33 00-0010	EA	3' x 3'-6" x 2' Oval Shape Boulders (Approx. 1,750 Lb. Each)	612.15
32 05 33 00-0011	EA	3' x 4' x 2' Oval Shape Boulders (Approx. 2,000 Lb. Each)	699.59
32 05 33 00-0012	EA	3' x 3' x 3' Oval Shape Boulders (Approx. 2,250 Lb. Each)	787.04
32 05 33 00-0013	EA	3' x 4' x 2'-6" Oval Shape Boulders (Approx. 2,500 Lb. Each)	874.49
32 05 33 00-0014	EA	3' x 4' x 3' Oval Shape Boulders (Approx. 3,000 Lb. Each)	1,049.39
32 05 33 00-0015	TON	Landscape Boulders	699.59

32 10 Bases, Ballasts, and Paving (32)**32 11 Base Courses (32 10)****32 11 16 Subbase Courses (32 11)****32 11 16 16 Aggregate Subbase Courses (32 11 16)****32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)**

Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)

32 11 16 16-0003	CY	Class II Graded Crushed Aggregate Roadway Base Course	110.51
32 11 16 16-0004	CY	Class III Graded Crushed Aggregate Roadway Base Course	105.95
32 11 16 16-0005	CY	Recycled Base Course	105.76

32 11 16 16-0006 Class II Base Courses By The SY (32 11 16 16-0001)

32 11 16 16-0007	SY	2" Class II Graded Crushed Aggregate Base Course	6.11
		For Up To 500, Add	1.56
		For >500 To 1,000, Add	0.61
		For >5,000 To 10,000, Deduct	-0.23
		For >10,000, Deduct	-0.40
32 11 16 16-0008	SY	4" Class II Crushed Aggregate Base Course	12.22
		For Up To 500, Add	3.11
		For >500 To 1,000, Add	1.22
		For >5,000 To 10,000, Deduct	-0.46
		For >10,000, Deduct	-0.79
32 11 16 16-0009	SY	6" Class II Crushed Aggregate Base Course	18.32
		For Up To 500, Add	4.66
		For >500 To 1,000, Add	1.83
		For >5,000 To 10,000, Deduct	-0.70
		For >10,000, Deduct	-1.19
32 11 16 16-0010	SY	9" Class II Crushed Aggregate Base Course	27.48
		For Up To 500, Add	6.99
		For >500 To 1,000, Add	2.75
		For >5,000 To 10,000, Deduct	-1.04
		For >10,000, Deduct	-1.79
32 11 16 16-0011	SY	12" Class II Crushed Aggregate Base Course	36.65
		For Up To 500, Add	9.32
		For >500 To 1,000, Add	3.67
		For >5,000 To 10,000, Deduct	-1.39
		For >10,000, Deduct	-2.38

32 11 23 Aggregate Base Courses (32 11)**32 11 23 16 Aggregate Base Courses (32 11 23)****32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)**

Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 11 23 16-0002	SF	2" Crushed Aggregate Base Course For Sidewalks	0.76
		For Up To 1,000, Add	0.21
		For >1,000 To 2,500, Add	0.08



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Base Courses			32 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 23 16-0003	SF		3" Crushed Aggregate Base Course For Sidewalks	1.07	
			For Up To 1,000, Add	0.30	
			For >1,000 To 2,500, Add	0.11	
32 11 23 16-0004	SF		4" Crushed Aggregate Base Course For Sidewalks	1.38	
			For Up To 1,000, Add	0.38	
			For >1,000 To 2,500, Add	0.14	
32 11 23 16-0005	SF		5" Crushed Aggregate Base Course For Sidewalks	1.80	
			For Up To 1,000, Add	0.50	
			For >1,000 To 2,500, Add	0.18	
32 11 23 16-0006	SF		6" Crushed Aggregate Base Course For Sidewalks	2.21	
			For Up To 1,000, Add	0.61	
			For >1,000 To 2,500, Add	0.22	
32 11 23 16-0007	SF		7" Crushed Aggregate Base Course For Sidewalks	2.54	
			For Up To 1,000, Add	0.70	
			For >1,000 To 2,500, Add	0.25	
32 11 23 16-0008	SF		8" Crushed Aggregate Base Course For Sidewalks	2.88	
			For Up To 1,000, Add	0.79	
			For >1,000 To 2,500, Add	0.29	
32 11 26 Asphaltic Base Courses (32 11)					
32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)					
32 11 26 19-0001			Bituminous-Stabilized Base Courses (32 11 26 19)		
32 11 26 19-0002	CY		Bituminous Stabilized Base Course.....	111.24	
			Note: 3/4" ASTM C33.		
32 12 Flexible Paving (32 10)					
32 12 13 Preparatory Coats (32 12)					
32 12 13 13 Tack Coats (32 12 13)					
32 12 13 13-0001	TON		Tack Coat (Monterey County).....	1,666.56	
32 12 13 19 Prime Coats (32 12 13)					
32 12 13 19-0001	SY		Surface Prime Coat, 0.26 Gallon/SY	1.88	
			For Up To 150, Add	0.42	
			For >150 To 300, Add	0.19	
			For >300 To 500, Add	0.09	
			For >3,500 To 5,000, Deduct	-0.05	
			For >5,000, Deduct	-0.13	
32 12 13 19-0002	SY		Surface Prime Coat, 0.28 Gallon/SY	1.99	
			For Up To 150, Add	0.45	
			For >150 To 300, Add	0.20	
			For >300 To 500, Add	0.10	
			For >3,500 To 5,000, Deduct	-0.05	
			For >5,000, Deduct	-0.14	
32 12 13 19-0003	SY		Surface Prime Coat, 0.30 Gallon/SY	2.09	
			For Up To 150, Add	0.48	
			For >150 To 300, Add	0.21	
			For >300 To 500, Add	0.10	
			For >3,500 To 5,000, Deduct	-0.05	
			For >5,000, Deduct	-0.15	
32 12 16 Asphalt Paving (32 12)					
32 12 16 13 Plant-Mix Asphalt Paving (32 12 16)					
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0043 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.					
32 12 16 13-0001			Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)		
			Note: S (3/4") aggregate gradation		
32 12 16 13-0002	TON		Bituminous Hot Mix Intermediate Binder Course 3,954 Lb./CY	153.27	
			Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
			For PG64-10 Asphalt, Add	17.84	
			For Up To 25, Add	21.51	
			For >25 To 50, Add	11.96	
			For >500 To 1,000, Deduct	-6.45	
			For >1,000 To 2,500, Deduct	-11.71	
			For >2,500 To 5,000, Deduct	-18.16	
			For >5,000, Deduct	-26.05	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0003	SY		1" Thick Bituminous Hot Mix Intermediate Binder Course 8.70 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.98 For Up To 1,000, Add 1.26 For >1,000 To 2,000, Add 0.71 For >10,000 To 20,000, Deduct -0.37 For >20,000 To 50,000, Deduct -0.67 For >50,000 To 100,000, Deduct -1.04 For >100,000, Deduct -1.50		
32 12 16 13-0004	SY		1-1/2" Thick Bituminous Hot Mix Intermediate Binder Course 12.91 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 1.47 For Up To 700, Add 1.85 For >700 To 1,400, Add 1.04 For >7,000 To 14,000, Deduct -0.55 For >14,000 To 32,000, Deduct -1.01 For >32,000 To 64,000, Deduct -1.56 For >64,000, Deduct -2.24		
32 12 16 13-0005	SY		2" Thick Bituminous Hot Mix Intermediate Binder Course 16.65 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 1.96 For Up To 500, Add 2.31 For >500 To 1,000, Add 1.28 For >5,000 To 10,000, Deduct -0.72 For >10,000 To 24,000, Deduct -1.32 For >24,000 To 48,000, Deduct -2.04 For >48,000, Deduct -2.94		
32 12 16 13-0006	SY		2-1/2" Thick Bituminous Hot Mix Intermediate Binder Course 21.04 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 2.45 For Up To 400, Add 2.95 For >400 To 800, Add 1.64 For >4,000 To 8,000, Deduct -0.91 For >8,000 To 20,000, Deduct -1.66 For >20,000 To 40,000, Deduct -2.57 For >40,000, Deduct -3.69		
32 12 16 13-0007	SY		3" Thick Bituminous Hot Mix Intermediate Binder Course 25.25 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 2.94 For Up To 340, Add 3.54 For >340 To 680, Add 2.95 For >3,400 To 6,800, Deduct -1.09 For >6,800 To 17,000, Deduct -1.99 For >17,000 To 34,000, Deduct -3.08 For >34,000, Deduct -4.43		
32 12 16 13-0008	SY		3-1/2" Thick Bituminous Hot Mix Intermediate Binder Course 29.45 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 3.43 For Up To 280, Add 4.13 For >280 To 560, Add 2.30 For >2,800 To 5,600, Deduct -1.27 For >5,600 To 14,000, Deduct -2.32 For >14,000 To 28,000, Deduct -3.60 For >28,000, Deduct -5.16		
32 12 16 13-0009	SY		4" Thick Bituminous Hot Mix Intermediate Binder Course 33.67 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 3.92 For Up To 250, Add 4.73 For >250 To 500, Add 2.63 For >2,500 To 5,000, Deduct -1.46 For >5,000 To 12,000, Deduct -2.65 For >12,000 To 24,000, Deduct -4.11 For >24,000, Deduct -5.90		
32 12 16 13-0010	SY		5" Thick Bituminous Hot Mix Intermediate Binder Course 42.08 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 4.90 For Up To 200, Add 5.91 For >200 To 400, Add 3.28 For >2,000 To 4,000, Deduct -1.82 For >4,000 To 10,000, Deduct -3.32 For >10,000 To 20,000, Deduct -5.14 For >20,000, Deduct -7.38		
32 12 16 13-0011	SY		6" Thick Bituminous Hot Mix Intermediate Binder Course 50.50 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 5.88 For Up To 160, Add 7.09 For >160 To 320, Add 3.94 For >1,600 To 3,200, Deduct -2.19 For >3,200 To 8,000, Deduct -3.98 For >8,000 To 16,000, Deduct -6.16 For >16,000, Deduct -8.85		

32 12 16 13-0012 Surface Wearing Courses, Hot Mix Asphalt (HMA) (32 12 16 13)
Note: SX (1/2") aggregate gradation



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Flexible Paving			32 12

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 12 16 13-0013	TON Bituminous Hot Mix Surface Wearing Course 3,774 Lb./CY Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	156.42		
	For PG64-10 Asphalt, Add	8.51		
	For Up To 25, Add	23.37		
	For >25 To 50, Add	13.19		
	For >500 To 1,000, Deduct	-6.30		
	For >1,000 To 2,500, Deduct	-11.47		
	For >2,500 To 5,000, Deduct	-17.77		
	For >5,000, Deduct	-25.52		
32 12 16 13-0014	TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR) Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	173.79		
	For Up To 25, Add	26.40		
	For >25 To 50, Add	14.95		
	For >500 To 1,000, Deduct	-6.92		
	For >1,000 To 2,500, Deduct	-12.60		
	For >2,500 To 5,000, Deduct	-19.52		
	For >5,000, Deduct	-28.04		
	For Warm Mix Additive, Add	8.04		
32 12 16 13-0015	TON Asphalt Rubberized Hot Mix (ARHM) Surface Course Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping.	185.14		
	For Up To 25, Add	27.53		
	For >25 To 50, Add	15.52		
	For >500 To 1,000, Deduct	-7.49		
	For >1,000 To 2,500, Deduct	-13.62		
	For >2,500 To 5,000, Deduct	-21.11		
	For >5,000, Deduct	-30.31		
	For Warm Mix Additive, Add	8.78		
32 12 16 13-0016	SY 1" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	8.53		
	For PG64-10 Asphalt, Add	0.45		
	For Up To 1,000, Add	1.32		
	For >1,000 To 2,000, Add	0.75		
	For >10,000 To 20,000, Deduct	-0.35		
	For >20,000 To 50,000, Deduct	-0.64		
	For >50,000 To 100,000, Deduct	-0.99		
	For >100,000, Deduct	-1.42		
32 12 16 13-0017	SY 1-1/2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	12.64		
	For PG64-10 Asphalt, Add	0.67		
	For Up To 700, Add	1.93		
	For >700 To 1,400, Add	1.10		
	For >7,000 To 14,000, Deduct	-0.52		
	For >14,000 To 32,000, Deduct	-0.95		
	For >32,000 To 64,000, Deduct	-1.47		
	For >64,000, Deduct	-2.12		
32 12 16 13-0018	SY 2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	16.19		
	For PG64-10 Asphalt, Add	0.89		
	For Up To 500, Add	2.39		
	For >500 To 1,000, Add	1.35		
	For >5,000 To 10,000, Deduct	-0.68		
	For >10,000 To 24,000, Deduct	-1.24		
	For >24,000 To 48,000, Deduct	-1.92		
	For >48,000, Deduct	-2.77		
32 12 16 13-0019	SY 2-1/2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	20.50		
	For PG64-10 Asphalt, Add	1.12		
	For Up To 400, Add	3.06		
	For >400 To 800, Add	1.73		
	For >4,000 To 8,000, Deduct	-0.86		
	For >8,000 To 20,000, Deduct	-1.56		
	For >20,000 To 40,000, Deduct	-2.42		
	For >40,000, Deduct	-3.48		
32 12 16 13-0020	SY 3" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	24.60		
	For PG64-10 Asphalt, Add	1.34		
	For Up To 340, Add	3.68		
	For >340 To 680, Add	2.97		
	For >3,400 To 6,800, Deduct	-1.03		
	For >6,800 To 17,000, Deduct	-1.88		
	For >17,000 To 34,000, Deduct	-2.90		
	For >34,000, Deduct	-4.18		
32 12 16 13-0021	CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	98.94		
32 12 16 13-0022	Hand Placed, Hot Mix Asphalt (HMA) (32 12 16 13)			
32 12 16 13-0023	TON Hand Placed Hot Mixed Asphalt 3,954 Lb./CY Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	397.42		
32 12 16 19	Cold-Mix Asphalt Paving (32 12 16)			
	Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.			
32 12 16 19-0001	Cold Mix Asphalt (CMA) Pavement (32 12 16 19)			
	Note: 0.5 Gal asphalt/SY per inch depth; well-graded granular aggregate.			
32 12 16 19-0002	SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	13.78		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course.....	13.38	
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course	21.15	
32 12 16 39 Paving Fabrics (32 12 16) See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 Geotextile Paving Fabrics (32 12 16 39)		
32 12 16 39-0002 SY 3.6 Ounce/SY, 90 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O).....	1.96	
For Up To 50, Add	0.44	
For >50 To 150, Add	0.32	
For >150 To 250, Add	0.21	
For >250 To 500, Add	0.11	
32 12 16 39-0003 SY 4.1 Ounce/SY, 101 Lb. Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O).....	2.11	
For Up To 50, Add	0.47	
For >50 To 150, Add	0.35	
For >150 To 250, Add	0.23	
For >250 To 500, Add	0.11	
32 12 16 43 Waterproofing Membranes (32 12 16)		
32 12 16 43-0001 Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002 SY Up To 500 SY, Preformed Rubberized Asphalt Membrane	37.95	
32 12 16 43-0003 SY >500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	28.29	
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane	17.32	
32 12 33 Flexible Paving Surface Treatments (32 12)		
32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33) Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	3.28	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.93	
32 12 33 00-0004 Bituminous Surface Treatment For Trails (32 12 33) Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005 SY Bituminous Surface Treatment, For Trails	2.22	
32 12 36 Seal Coats (32 12) See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)		
32 12 36 13-0001 Asphalt Emulsion, Fog Seal (Monterey County) (32 12 36 13)		
32 12 36 13-0002 TON Asphaltic Emulsion, Fog Seal (Monterey County).....	1,552.15	
32 12 36 13-0003 Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13) Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0004 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003) Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0005 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.41	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0006 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.90	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0007 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.67	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0008 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.42	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0009 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.28	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0010 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.16	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0011 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.04	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0012 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.96	
For Each Additional 0.5% Latex Additive, Add	0.63	
32 12 36 13-0013 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0003) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0014 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.30	
For Each Additional 0.5% Latex Additive, Add	0.78	
32 12 36 13-0015 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.73	
For Each Additional 0.5% Latex Additive, Add	0.78	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Flexible Paving			32 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0016	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)		5.44	
		For Each Additional 0.5% Latex Additive, Add		0.78	
32 12 36 13-0017	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.29	
		For Each Additional 0.5% Latex Additive, Add		0.78	
32 12 36 13-0018	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	4.97	
		For Each Additional 0.5% Latex Additive, Add		0.78	
32 12 36 13-0019	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	4.78	
		For Each Additional 0.5% Latex Additive, Add		0.78	
32 12 36 13-0020	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	4.61	
		For Each Additional 0.5% Latex Additive, Add		0.78	
32 12 36 13-0021	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	4.53	
		For Each Additional 0.5% Latex Additive, Add		0.78	
32 12 36 13-0022		Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)			
		(32 12 36 13-0003)			
		Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.			
32 12 36 13-0023	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	7.11	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0024	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	6.46	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0025	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	6.14	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0026	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.77	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0027	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.57	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0028	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.29	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0029	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.11	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0030	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.00	
		For Each Additional 0.5% Latex Additive, Add		0.93	
32 12 36 13-0031		Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)			
		(32 12 36 13-0003)			
		Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.			
32 12 36 13-0032	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	7.18	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0033	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	6.53	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0034	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	6.21	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0035	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.84	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0036	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.64	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0037	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.45	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0038	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.19	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0039	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	5.08	
		For Each Additional 0.5% Latex Additive, Add		1.07	
32 12 36 13-0040		Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)			
		(32 12 36 13-0003)			
		Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.			
32 12 36 13-0041	SY	Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	10.85	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0042	SY	>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	10.00	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0043	SY	>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	9.52	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0044	SY	>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	8.98	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0045	SY	>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	8.68	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0046	SY	>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	8.34	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0047	SY	>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	8.04	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0048	SY	>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	.....	7.92	
		For Each Additional 0.5% Latex Additive, Add		1.54	
32 12 36 13-0049		Asphalt Emulsion Seal Coat (Scrub Seal)			
		(32 12 36 13)			
		Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.			
32 12 36 13-0050		Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)			
		(32 12 36 13-0049)			
		Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.			

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0051	SY	Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.91	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0052	SY	>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.63	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0053	SY	>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.42	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0054	SY	>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.19	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0055	SY	>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.08	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0056	SY	>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.98	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0057	SY	>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.87	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0058	SY	>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	3.82	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.63	
32 12 36 13-0059 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)				
		(32 12 36 13-0049) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0060	SY	Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.84	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0061	SY	>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.48	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0062	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.26	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0063	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.10	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0064	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.78	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0065	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.60	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0066	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.46	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0067	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.40	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.78	
32 12 36 13-0068 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)				
		(32 12 36 13-0049) Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0069	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.69	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0070	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.25	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0071	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.93	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0072	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.58	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0073	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.39	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0074	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.12	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0075	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.94	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0076	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.87	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	0.93	
32 12 36 13-0077 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)				
		(32 12 36 13-0049) Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0078	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.77	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	
32 12 36 13-0079	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.34	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	
32 12 36 13-0080	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.00	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	
32 12 36 13-0081	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.64	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	
32 12 36 13-0082	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.45	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	
32 12 36 13-0083	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.29	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	
32 12 36 13-0084	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.02	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	
32 12 36 13-0085	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.96	
		<i>For Each Additional 0.5% Latex Additive, Add</i>	1.07	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

32

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
32 12 36 13-0086	Sand Sealer (32 12 36 13) Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.			
32 12 36 13-0087	SY	Up To 200 SY, Sand Seal.....	2.99	
32 12 36 13-0088	SY	>200 To 500 SY, Sand Seal.....	2.00	
32 12 36 13-0089	SY	>500 To 1,000 SY, Sand Seal.....	1.98	
32 12 36 13-0090	SY	>1,000 To 5,000 SY, Sand Seal.....	1.75	
32 12 36 13-0091	SY	>5,000 To 10,000 SY, Sand Seal.....	1.64	
32 12 36 13-0092	SY	>10,000 To 20,000 SY, Sand Seal.....	1.53	
32 12 36 13-0093	SY	>20,000 To 50,000 SY, Sand Seal.....	1.45	
32 12 36 13-0094	SY	>50,000 SY, Sand Seal.....	1.43	
32 12 36 16	Coal Tar Seal Coats (32 12 36)			
32 12 36 16-0001	Thermoplastic Coal-Tar Asphalt Seal (32 12 36 16) Note: Includes sweeping and cleaning of area.			
32 12 36 16-0002	SY	Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	17.30	
32 12 36 16-0003	SY	>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	16.32	
32 12 36 16-0004	SY	>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	14.40	
32 12 36 16-0005	SY	>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	12.95	
32 12 36 16-0006	SY	>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	11.04	
32 12 36 16-0007	SY	>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	9.10	
32 12 36 16-0008	SY	Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	21.12	
32 12 36 16-0009	SY	>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	20.00	
32 12 36 16-0010	SY	>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	17.69	
32 12 36 16-0011	SY	>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	15.98	
32 12 36 16-0012	SY	>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	13.67	
32 12 36 16-0013	SY	>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	11.34	
32 12 43	Porous Flexible Paving (32 12)			
32 12 43 00-0001	Flexible Recycled Plastic Porous Grid (32 12 43) Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod.			
32 12 43 00-0002	SY	1" Thick, Recycled Plastic Flexible Pavement With Sand Fill.....	41.02	
		Note: Includes sand fill in rings. Excludes base, earthwork and grass or sod. Invisible Structures, Inc.; Grasspave2.		
		For Up To 100, Add	13.76	
		For >100 To 500, Add	3.45	
		For >1,000 To 5,000, Deduct	-1.40	
		For >5,000, Deduct	-2.91	
32 12 73	Asphalt Paving Joint Sealants (32 12)			
32 12 73 00-0001	Expansion Joint In Sidewalk (32 12 73)			
32 12 73 00-0002	LF	For Hot Asphalt Poured Over Expansion Joint In Sidewalk.....	3.72	
32 13	Rigid Paving (32 10)			
32 13 13	Concrete Paving (32 13) Note: The following section includes spreading and placing delivered Portland cement concrete mix.			
32 13 13 33	Plain Concrete Paving (32 13 13)			
32 13 13 33-0001	Concrete Paving Assemblies (32 13 13 33) Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.			
32 13 13 33-0002	4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)			
32 13 13 33-0003	SY	4" 4,500 PSI Concrete Paving Assembly.....	64.86	
		For 2,500 PSI Concrete, Deduct	-3.87	
		For 3,000 PSI Concrete, Deduct	-2.52	
		For 3,500 PSI Concrete, Deduct	-2.02	
		For 4,000 PSI Concrete, Deduct	-0.87	
		For 5,000 PSI Concrete, Add	0.54	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	4.37	
		For <12' Wide Pass, Add	11.17	
		For 24' Or Greater Wide Pass, Deduct	-12.97	
		For Air Entrainment, Add	1.68	
		For Slipforming, Deduct	-6.49	
		For Up To 100, Add	25.47	
		For >100 To 250, Add	14.42	
		For >250 To 500, Add	7.21	
		For >1,000 To 2,000, Deduct	-1.68	
		For >2,000 To 5,000, Deduct	-3.30	
		For >5,000 To 10,000, Deduct	-4.92	
		For >10,000 To 20,000, Deduct	-6.55	
		For >20,000, Deduct	-8.17	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0004	SY	5"	4,500 PSI Concrete Paving Assembly	76.91	
			For 2,500 PSI Concrete, Deduct	-4.85	
			For 3,000 PSI Concrete, Deduct	-3.17	
			For 3,500 PSI Concrete, Deduct	-2.53	
			For 4,000 PSI Concrete, Deduct	-1.10	
			For 5,000 PSI Concrete, Add	0.68	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.49	
			For <12' Wide Pass, Add	12.90	
			For 24' Or Greater Wide Pass, Deduct	-15.38	
			For Air Entrainment, Add	2.11	
			For Slipforming, Deduct	-7.69	
			For Up To 100, Add	29.27	
			For >100 To 250, Add	16.74	
			For >250 To 500, Add	8.37	
			For >1,000 To 2,000, Deduct	-2.11	
			For >2,000 To 5,000, Deduct	-4.03	
			For >5,000 To 10,000, Deduct	-5.96	
			For >10,000 To 20,000, Deduct	-7.88	
			For >20,000, Deduct	-9.80	
32 13 13 33-0005	SY	6"	4,500 PSI Concrete Paving Assembly	82.11	
			For 2,500 PSI Concrete, Deduct	-5.12	
			For 3,000 PSI Concrete, Deduct	-3.34	
			For 3,500 PSI Concrete, Deduct	-2.67	
			For 4,000 PSI Concrete, Deduct	-1.16	
			For 5,000 PSI Concrete, Add	0.71	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.79	
			For <12' Wide Pass, Add	13.85	
			For 24' Or Greater Wide Pass, Deduct	-16.42	
			For Air Entrainment, Add	2.23	
			For Slipforming, Deduct	-8.21	
			For Up To 100, Add	31.46	
			For >100 To 250, Add	17.96	
			For >250 To 500, Add	8.98	
			For >1,000 To 2,000, Deduct	-2.23	
			For >2,000 To 5,000, Deduct	-4.28	
			For >5,000 To 10,000, Deduct	-6.33	
			For >10,000 To 20,000, Deduct	-8.38	
			For >20,000, Deduct	-10.44	
32 13 13 33-0006	SY	7"	4,500 PSI Concrete Paving Assembly	97.78	
			For 2,500 PSI Concrete, Deduct	-6.45	
			For 3,000 PSI Concrete, Deduct	-4.21	
			For 3,500 PSI Concrete, Deduct	-3.37	
			For 4,000 PSI Concrete, Deduct	-1.46	
			For 5,000 PSI Concrete, Add	0.90	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	7.30	
			For <12' Wide Pass, Add	16.03	
			For 24' Or Greater Wide Pass, Deduct	-19.56	
			For Air Entrainment, Add	2.81	
			For Slipforming, Deduct	-9.78	
			For Up To 100, Add	36.22	
			For >100 To 250, Add	20.91	
			For >250 To 500, Add	10.46	
			For >1,000 To 2,000, Deduct	-2.81	
			For >2,000 To 5,000, Deduct	-5.25	
			For >5,000 To 10,000, Deduct	-7.70	
			For >10,000 To 20,000, Deduct	-10.14	
			For >20,000, Deduct	-12.58	
32 13 13 33-0007	SY	8"	4,500 PSI Concrete Paving Assembly	111.60	
			For 2,500 PSI Concrete, Deduct	-7.09	
			For 3,000 PSI Concrete, Deduct	-4.62	
			For 3,500 PSI Concrete, Deduct	-3.70	
			For 4,000 PSI Concrete, Deduct	-1.60	
			For 5,000 PSI Concrete, Add	0.99	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	8.01	
			For <12' Wide Pass, Add	18.66	
			For 24' Or Greater Wide Pass, Deduct	-22.32	
			For Air Entrainment, Add	3.08	
			For Slipforming, Deduct	-11.16	
			For Up To 100, Add	42.32	
			For >100 To 250, Add	24.24	
			For >250 To 500, Add	12.12	
			For >1,000 To 2,000, Deduct	-3.08	
			For >2,000 To 5,000, Deduct	-5.87	
			For >5,000 To 10,000, Deduct	-8.66	
			For >10,000 To 20,000, Deduct	-11.45	
			For >20,000, Deduct	-14.24	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Rigid Paving			32 13

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0008	SY		9" 4,500 PSI Concrete Paving Assembly.....	126.38	
			For 2,500 PSI Concrete, Deduct	-8.19	
			For 3,000 PSI Concrete, Deduct	-5.34	
			For 3,500 PSI Concrete, Deduct	-4.27	
			For 4,000 PSI Concrete, Deduct	-1.85	
			For 5,000 PSI Concrete, Add	1.14	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	9.25	
			For <12' Wide Pass, Add	20.92	
			For 24' Or Greater Wide Pass, Deduct	-25.28	
			For Air Entrainment, Add	3.56	
			For Slipforming, Deduct	-12.64	
			For Up To 100, Add	47.35	
			For >100 To 250, Add	27.24	
			For >250 To 500, Add	13.62	
			For >1,000 To 2,000, Deduct	-3.56	
			For >2,000 To 5,000, Deduct	-6.72	
			For >5,000 To 10,000, Deduct	-9.88	
			For >10,000 To 20,000, Deduct	-13.04	
			For >20,000, Deduct	-16.20	
32 13 13 33-0009	SY		10" 4,500 PSI Concrete Paving Assembly.....	140.79	
			For 2,500 PSI Concrete, Deduct	-9.01	
			For 3,000 PSI Concrete, Deduct	-5.87	
			For 3,500 PSI Concrete, Deduct	-4.70	
			For 4,000 PSI Concrete, Deduct	-2.04	
			For 5,000 PSI Concrete, Add	1.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	10.18	
			For <12' Wide Pass, Add	23.45	
			For 24' Or Greater Wide Pass, Deduct	-28.16	
			For Air Entrainment, Add	3.92	
			For Slipforming, Deduct	-14.08	
			For Up To 100, Add	53.15	
			For >100 To 250, Add	30.49	
			For >250 To 500, Add	15.25	
			For >1,000 To 2,000, Deduct	-3.92	
			For >2,000 To 5,000, Deduct	-7.44	
			For >5,000 To 10,000, Deduct	-10.96	
			For >10,000 To 20,000, Deduct	-14.47	
			For >20,000, Deduct	-17.99	
32 13 13 33-0010	SY		12" 4,500 PSI Concrete Paving Assembly.....	167.72	
			For 2,500 PSI Concrete, Deduct	-10.66	
			For 3,000 PSI Concrete, Deduct	-6.95	
			For 3,500 PSI Concrete, Deduct	-5.56	
			For 4,000 PSI Concrete, Deduct	-2.41	
			For 5,000 PSI Concrete, Add	1.48	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	12.05	
			For <12' Wide Pass, Add	28.02	
			For 24' Or Greater Wide Pass, Deduct	-33.54	
			For Air Entrainment, Add	4.64	
			For Slipforming, Deduct	-16.77	
			For Up To 100, Add	63.54	
			For >100 To 250, Add	36.41	
			For >250 To 500, Add	18.20	
			For >1,000 To 2,000, Deduct	-4.64	
			For >2,000 To 5,000, Deduct	-8.83	
			For >5,000 To 10,000, Deduct	-13.02	
			For >10,000 To 20,000, Deduct	-17.22	
			For >20,000, Deduct	-21.41	
32 13 13 33-0011	SY		15" 4,500 PSI Concrete Paving Assembly.....	213.39	
			For 2,500 PSI Concrete, Deduct	-13.10	
			For 3,000 PSI Concrete, Deduct	-8.54	
			For 3,500 PSI Concrete, Deduct	-6.83	
			For 4,000 PSI Concrete, Deduct	-2.96	
			For 5,000 PSI Concrete, Add	1.82	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	14.80	
			For <12' Wide Pass, Add	36.27	
			For 24' Or Greater Wide Pass, Deduct	-42.68	
			For Air Entrainment, Add	5.69	
			For Slipforming, Deduct	-21.34	
			For Up To 100, Add	82.48	
			For >100 To 250, Add	46.94	
			For >250 To 500, Add	23.47	
			For >1,000 To 2,000, Deduct	-5.69	
			For >2,000 To 5,000, Deduct	-11.03	
			For >5,000 To 10,000, Deduct	-16.36	
			For >10,000 To 20,000, Deduct	-21.70	
			For >20,000, Deduct	-27.03	

32 13 16 Decorative Concrete Paving (32 13)**32 13 16 13 Patterned Concrete Paving** (32 13 16)

See CSI section 32 17 26 00-0000 for tactile warning surfaces.

32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk.....5.51

32 13 43 Pervious Concrete Paving (32 13)

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 13 43 00-0001	Pervious Concrete Assemblies (32 13 43)	
	Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.	
32 13 43 00-0002	SF 6" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	18.60
	Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
	For >5,000 To 30,000, Deduct	-1.98
	For >30,000 To 100,000, Deduct	-3.62
	For >100,000, Deduct	-4.49
32 13 43 00-0003	SF 9" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	23.64
	Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
	For >5,000 To 30,000, Deduct	-2.45
	For >30,000 To 100,000, Deduct	-4.38
	For >100,000, Deduct	-5.45
32 13 73	Concrete Paving Joint Sealants (32 13)	
32 13 73 13	Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)	
32 13 73 13-0001	Concrete Pavement Joint And Crack Repair (32 13 73 13)	
	Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.	
32 13 73 13-0002	Silicone Concrete Pavement Joint And Crack Repair (32 13 73 13-0001)	
32 13 73 13-0003	CLF 1/4" x 1/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	636.27
	For Custom Match Coloring, Add	20.74
	For 1 Part Mildew Resistant, Add	30.25
	For High-Modulus Non-Acid Curing, Add	17.29
32 13 73 13-0004	CLF 1/4" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	716.14
	For Custom Match Coloring, Add	31.12
	For 1 Part Mildew Resistant, Add	45.38
	For High-Modulus Non-Acid Curing, Add	25.93
32 13 73 13-0005	CLF 1/4" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	796.01
	For Custom Match Coloring, Add	41.49
	For 1 Part Mildew Resistant, Add	60.50
	For High-Modulus Non-Acid Curing, Add	34.57
32 13 73 13-0006	CLF 3/8" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	817.62
	For Custom Match Coloring, Add	46.67
	For 1 Part Mildew Resistant, Add	68.06
	For High-Modulus Non-Acid Curing, Add	38.89
32 13 73 13-0007	CLF 3/8" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	900.77
	For Custom Match Coloring, Add	62.23
	For 1 Part Mildew Resistant, Add	90.75
	For High-Modulus Non-Acid Curing, Add	51.86
32 13 73 13-0008	CLF 3/8" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	983.92
	For Custom Match Coloring, Add	77.79
	For 1 Part Mildew Resistant, Add	113.44
	For High-Modulus Non-Acid Curing, Add	64.82
32 13 73 13-0009	CLF 3/8" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,085.40
	For Custom Match Coloring, Add	93.35
	For 1 Part Mildew Resistant, Add	136.13
	For High-Modulus Non-Acid Curing, Add	77.79
32 13 73 13-0010	CLF 1/2" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,005.53
	For Custom Match Coloring, Add	82.97
	For 1 Part Mildew Resistant, Add	121.00
	For High-Modulus Non-Acid Curing, Add	69.14
32 13 73 13-0011	CLF 1/2" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,165.27
	For Custom Match Coloring, Add	103.72
	For 1 Part Mildew Resistant, Add	151.25
	For High-Modulus Non-Acid Curing, Add	86.43
32 13 73 13-0012	CLF 1/2" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,288.35
	For Custom Match Coloring, Add	124.46
	For 1 Part Mildew Resistant, Add	181.50
	For High-Modulus Non-Acid Curing, Add	103.72
32 13 73 13-0013	CLF 1/2" x 7/8" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,411.45
	For Custom Match Coloring, Add	145.20
	For 1 Part Mildew Resistant, Add	211.75
	For High-Modulus Non-Acid Curing, Add	121.00
32 13 73 13-0014	CLF 1/2" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,516.20
	For Custom Match Coloring, Add	165.95
	For 1 Part Mildew Resistant, Add	242.00
	For High-Modulus Non-Acid Curing, Add	138.29
32 13 73 13-0015	CLF 3/4" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,620.96
	For Custom Match Coloring, Add	186.69
	For 1 Part Mildew Resistant, Add	272.25
	For High-Modulus Non-Acid Curing, Add	155.57
32 13 73 13-0016	CLF 3/4" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	1,960.13
	For Custom Match Coloring, Add	259.29
	For 1 Part Mildew Resistant, Add	378.13
	For High-Modulus Non-Acid Curing, Add	216.08
32 13 73 13-0017	CLF 1" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair.....	2,299.28
	For Custom Match Coloring, Add	331.89
	For 1 Part Mildew Resistant, Add	484.01
	For High-Modulus Non-Acid Curing, Add	276.58



Exterior Improvements		32	32
Bases, Ballasts, and Paving		32 10	
Rigid Paving		32 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)

32 13 73 16-0001			Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16)		
Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.					
32 13 73 16-0002	LF		Joint Sealing, Concrete Pavement Preformed Elastomeric	14.21	

32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)

32 13 73 19-0001			Silicone Joint Sealant For Concrete Pavement (32 13 73 19)		
Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.					
32 13 73 19-0002	LF	1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	11.77		2.70
32 13 73 19-0003	LF	3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	12.44		2.76
32 13 73 19-0004	LF	1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	13.36		2.81
32 13 73 19-0005	LF	3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	16.41		2.87
32 13 73 19-0006	LF	1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	19.52		2.92
32 13 73 19-0007	LF	1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	25.61		2.98
32 13 73 19-0008	LF	2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement	39.26		3.04

32 14 Unit Paving (32 10)

32 14 09 Paver Restraints (32 14)

32 14 09 00-0001			Paver Restraints (32 14 09)		
Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.					
32 14 09 00-0002	LF	Up To 2" Height, Vinyl Paver Restraint	5.28		1.17
		For >1,000 To 2,000, Deduct	-0.75		
		For >2,000 To 4,000, Deduct	-1.09		
		For >4,000, Deduct	-1.39		
32 14 09 00-0003	LF	Up To 2" Height, Galvanized Steel Paver Restraint	5.73		1.17
		For >500 To 1,000, Deduct	-0.19		
		For >1,000 To 2,000, Deduct	-0.39		
		For >2,000, Deduct	-0.58		
32 14 09 00-0004	LF	Up To 1" Height, Aluminum Paver Restraint	5.51		1.17
		For >250 To 500, Deduct	-0.36		
		For >500 To 1,000, Deduct	-0.54		
		For >1,000 To 1,500, Deduct	-0.91		
32 14 09 00-0005	LF	>1" To 2" Height, Aluminum Paver Restraint	6.52		1.17
		For >250 To 500, Deduct	-0.46		
		For >500 To 1,000, Deduct	-0.70		
		For >1,000 To 1,500, Deduct	-1.16		
32 14 09 00-0006	LF	>2" To 3" Height, Aluminum Paver Restraint	8.48		1.17
		For >250 To 500, Deduct	-0.66		
		For >500 To 1,000, Deduct	-0.99		
		For >1,000 To 1,500, Deduct	-1.65		
32 14 09 00-0007	LF	>3" To 4" Height, Aluminum Paver Restraint	9.98		1.17
		For >250 To 500, Deduct	-0.81		
		For >500 To 1,000, Deduct	-1.22		
		For >1,000 To 1,500, Deduct	-2.03		

32 14 11 Bedding for Unit Paving (32 14)

32 14 11 00-0001			Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11)		
Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.					
32 14 11 00-0002	SF	1" To 2" Screeded Sand Bedding	1.11		
		For Up To 100, Add	0.50		
		For >100 To 500, Add	0.15		
		For >1,000 To 5,000, Deduct	-0.09		
		For >5,000, Deduct	-0.14		
32 14 11 00-0003	SF	1" To 2" Screeded Stone Dust Bedding	1.28		
		For Up To 100, Add	0.55		
		For >100 To 500, Add	0.15		
		For >1,000 To 5,000, Deduct	-0.09		
		For >5,000, Deduct	-0.15		
32 14 11 00-0004	SF	3" Screeded Stone Dust Bedding	1.63		
		For Up To 100, Add	0.67		
		For >100 To 500, Add	0.19		
		For >1,000 To 5,000, Deduct	-0.11		
		For >5,000, Deduct	-0.18		
32 14 11 00-0005	SF	4" Screeded Stone Dust Bedding	2.05		
		For Up To 100, Add	0.84		
		For >100 To 500, Add	0.23		
		For >1,000 To 5,000, Deduct	-0.13		
		For >5,000, Deduct	-0.22		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 11 00-0006	SF	1" Mortar Bedding	3.63	
		For Up To 100, Add	1.64	
		For >100 To 500, Add	0.47	
		For >1,000 To 5,000, Deduct	-0.29	
		For >5,000, Deduct	-0.46	
32 14 11 00-0007	SF	2" Mortar Bedding	5.30	
		For Up To 100, Add	2.30	
		For >100 To 500, Add	0.65	
		For >1,000 To 5,000, Deduct	-0.39	
		For >5,000, Deduct	-0.63	
32 14 11 00-0008	SF	Thin-Set Latex Portland Cement Mortar	1.81	
		For Up To 100, Add	0.84	
		For >100 To 500, Add	0.25	
		For >1,000 To 5,000, Deduct	-0.16	
		For >5,000, Deduct	-0.24	
32 14 13 Precast Concrete Unit Paving (32 14)				
32 14 13 16 Precast Concrete Unit Paving Slabs (32 14 13)				
32 14 13 16-0001		Precast Concrete Paver Sidewalk (32 14 13 16)		
		Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 13 16-0002	SF	2-3/8" Thick, Up To 32 SI Precast Concrete Paver	13.01	3.64
		Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.22	
		For 3-1/8" Concrete Paver, Add	1.97	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	1.02	
		For Up To 100, Add	5.08	
		For >100 To 500, Add	1.38	
		For >1,000 To 5,000, Deduct	-0.73	
		For >5,000, Deduct	-1.27	
32 14 13 16-0003	SF	2-3/8" Thick, >32 to 64 SI Precast Concrete Paver	12.34	3.33
		Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.19	
		For 3-1/8" Concrete Paver, Add	1.92	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.95	
		For Up To 100, Add	4.75	
		For >100 To 500, Add	1.28	
		For >1,000 To 5,000, Deduct	-0.66	
		For >5,000, Deduct	-1.17	
32 14 13 16-0004	SF	2-3/8" Thick, >64 to 144 SI Precast Concrete Paver	11.74	2.64
		Note: Includes 6" x 12", 12" x 12" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.16	
		For 3-1/8" Concrete Paver, Add	1.88	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.89	
		For Up To 100, Add	4.45	
		For >100 To 500, Add	1.19	
		For >1,000 To 5,000, Deduct	-0.60	
		For >5,000, Deduct	-1.08	
32 14 13 16-0005	SF	2-3/8" Thick, >144 SI Precast Concrete Paver	11.19	2.75
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		For 2-3/4" Concrete Paver, Add	1.13	
		For 3-1/8" Concrete Paver, Add	1.84	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.83	
		For Up To 100, Add	4.17	
		For >100 To 500, Add	1.11	
		For >1,000 To 5,000, Deduct	-0.55	
		For >5,000, Deduct	-0.99	
32 14 13 16-0006	SF	2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns	12.03	3.16
		Note: Patterns made by combining pavers from two or more size groups.		
		For 2-3/4" Concrete Paver, Add	1.17	
		For 3-1/8" Concrete Paver, Add	1.90	
		For Cement/Sand Mix Or Polymeric Sand Joints, Add	0.92	
		For Up To 100, Add	4.59	
		For >100 To 500, Add	1.23	
		For >1,000 To 5,000, Deduct	-0.63	
		For >5,000, Deduct	-1.12	
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)				
32 14 13 19-0001		Turf Block (32 14 13 19)		
		Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002	SF	3-1/8" Thick, Precast Concrete Turf Block	13.20	3.16
		For Up To 100, Add	4.88	
		For >100 To 500, Add	1.29	
		For >1,000 To 5,000, Deduct	-0.63	
		For >5,000, Deduct	-1.16	
32 14 16 Brick Unit Paving (32 14)				



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Unit Paving			32 14

32

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 14 16 00-0001	Brick Paver Sidewalk (32 14 16) Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.			
32 14 16 00-0002	SF 4" x 8" x 2-1/4" Brick Paver, Laid Flat For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		16.34 -3.53 8.07 1.18 5.91 1.55 -0.73 -1.37	3.64
32 14 16 00-0003	SF 4" x 8" x 2-1/4" Brick, Laid On Edge For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		24.37 -6.04 14.12 1.63 8.17 2.05 -0.83 -1.73	4.16
32 14 33	Plastic Paving (32 14)			
32 14 33 13	Permeable Plastic Paving (32 14 33)			
32 14 33 13-0001	Turf Block Plastic Paving (32 14 33 13)			
32 14 33 13-0002	SF 4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		19.96 6.57 1.63 -0.63 -1.36	3.16
32 14 40	Stone Paving (32 14)			
32 14 40 00-0001	Slate Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.			
32 14 40 00-0002	SF 1" Thick, Up to 54 SI Slate Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		16.82 1.14 -8.41 -5.86 5.72 1.45 -0.60 -1.23	3.03
32 14 40 00-0003	SF 1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		16.27 1.09 -8.27 -5.78 5.44 1.36 -0.55 -1.15	2.75
32 14 40 00-0004	SF 1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		15.32 0.99 -8.03 -5.64 4.97 1.22 -0.45 -1.00	2.26
32 14 40 00-0005	SF 1" Thick, >216 SI Slate Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		14.91 0.95 -7.93 -5.58 4.76 1.16 -0.41 -0.94	2.06
32 14 40 00-0006	SF 1" Thick, Slate Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct		15.75 1.04 -8.14 -5.70 5.18 1.28 -0.50 -1.07	2.49

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 14 40 00-0007	Granite Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.			
32 14 40 00-0008	SF 1" Thick, Up to 54 SI Granite Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	31.54 1.88 1.58 3.15 3.46 9.40 2.18 -0.60 -1.67		3.03
32 14 40 00-0009	SF 1" Thick, >54 to 108 SI Granite Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	30.99 1.82 1.55 3.10 3.37 9.12 2.10 -0.55 -1.59		2.75
32 14 40 00-0010	SF 1" Thick, >108 to 216 SI Granite Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	30.04 1.73 1.50 3.00 3.23 8.65 1.96 -0.45 -1.45		2.26
32 14 40 00-0011	SF 1" Thick, >216 SI Granite Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	29.63 1.69 1.48 2.96 3.17 8.44 1.89 -0.41 -1.38		2.06
32 14 40 00-0012	SF 1" Thick, Granite Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	30.47 1.77 1.52 3.05 3.30 8.86 2.02 -0.50 -1.51		2.49

32 14 40 00-0013 Cobble Stone (32 14 40)

Note: Includes 6" thick 2,500 psi concrete mix with various colors of rounded 4" to 8" diameter cobble stones, half embedded in concrete.

32 14 40 00-0014 SF 4" to 8" diameter cobble stones, various colors, Up To 500 SF 36.80
Note: Half embedded in minimum 6" thick 2500 psi concrete mix.

32 14 40 00-0015 SF 4" to 8" diameter cobble stones, various colors, > 500 SF 28.93
Note: Half embedded in minimum 6" thick 2500 psi concrete mix.

32 15 Aggregate Surfacing (32 15)**32 15 40 Crushed Stone Surfacing** (32 15)

Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 15 40 00-0001 Gravel Surfacing And Spreading (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.

32 15 40 00-0002 CY Gravel Surfacing And Spreading 106.90

32 15 40 00-0003 Limestone Screenings (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.

32 15 40 00-0004 CY Limestone Screenings For Trail 76.29

32 15 40 00-0005 Decomposed Granite (32 15 40)

Note: Includes delivered material, placement, rolling and compaction water.



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Aggregate Surfacing			32 15

32

MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT COST		UNIT COST
32 15 40 00-0006	SY	3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	20.17		
		Note: Placed in 2 lifts.			
		For Additional 2" Lift	10.09		
		For >45 To 180, Deduct	-1.35		
		For >180 To 450, Deduct	-1.69		
		For >450, Deduct	-2.02		
32 16 Curbs, Gutters, Sidewalks, and Driveways (32 16)					
32 16 13 Curbs and Gutters (32 16)					
Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0057 for additional saw cuts within the 100'.					
32 16 13 13 Cast-In-Place Concrete Curbs and Gutters (32 16 13)					
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0001 CALTRANS Cast In Place Concrete Curbs Assemblies (32 16 13 13)					
Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0002	LF	CALTRANS Type A1-6 Straight Concrete Curb Assembly.....	28.99		12.19
		For Up To 20, Add	16.47		
		For >20 To 50, Add	9.30		
		For >50 To 100, Add	3.58		
		For >500 To 1,000, Deduct	-3.58		
		For >1,000, Deduct	-6.10		
32 16 13 13-0003	LF	CALTRANS Type A1-6 Radius Concrete Curb Assembly.....	32.40		14.02
		For Up To 20, Add	18.82		
		For >20 To 50, Add	10.64		
		For >50 To 100, Add	4.09		
		For >500 To 1,000, Deduct	-4.09		
		For >1,000, Deduct	-6.94		
32 16 13 13-0004	LF	CALTRANS Type A1-8 Straight Concrete Curb Assembly.....	30.20		12.19
		For Up To 20, Add	17.93		
		For >20 To 50, Add	10.15		
		For >50 To 100, Add	3.89		
		For >500 To 1,000, Deduct	-3.89		
		For >1,000, Deduct	-6.59		
32 16 13 13-0005	LF	CALTRANS Type A1-8 Radius Concrete Curb Assembly.....	32.41		14.02
		For Up To 20, Add	19.43		
		For >20 To 50, Add	11.01		
		For >50 To 100, Add	4.21		
		For >500 To 1,000, Deduct	-4.21		
		For >1,000, Deduct	-7.13		
32 16 13 13-0006	LF	CALTRANS Type A3-6 Straight Concrete Curb Assembly.....	15.55		8.24
		For Up To 20, Add	9.21		
		For >20 To 50, Add	5.21		
		For >50 To 100, Add	2.00		
		For >500 To 1,000, Deduct	-2.00		
		For >1,000, Deduct	-3.38		
32 16 13 13-0007	LF	CALTRANS Type A3-6 Radius Concrete Curb Assembly.....	17.99		9.51
		For Up To 20, Add	10.91		
		For >20 To 50, Add	6.19		
		For >50 To 100, Add	2.36		
		For >500 To 1,000, Deduct	-2.36		
		For >1,000, Deduct	-3.99		
32 16 13 13-0008	LF	CALTRANS Type A3-8 Straight Concrete Curb Assembly.....	17.26		8.53
		For Up To 20, Add	10.04		
		For >20 To 50, Add	5.68		
		For >50 To 100, Add	2.18		
		For >500 To 1,000, Deduct	-2.18		
		For >1,000, Deduct	-3.70		
32 16 13 13-0009	LF	CALTRANS Type A3-8 Radius Concrete Curb Assembly.....	19.81		10.23
		For Up To 20, Add	11.82		
		For >20 To 50, Add	6.70		
		For >50 To 100, Add	2.56		
		For >500 To 1,000, Deduct	-2.56		
		For >1,000, Deduct	-4.34		
32 16 13 13-0010	LF	CALTRANS Type B1-4 Straight Concrete Curb Assembly.....	26.42		12.19
		For Up To 20, Add	15.03		
		For >20 To 50, Add	8.49		
		For >50 To 100, Add	3.27		
		For >500 To 1,000, Deduct	-3.27		
		For >1,000, Deduct	-5.57		
32 16 13 13-0011	LF	CALTRANS Type B1-4 Straight Concrete Curb Assembly.....	29.54		14.02
		For Up To 20, Add	17.18		
		For >20 To 50, Add	9.72		
		For >50 To 100, Add	3.73		
		For >500 To 1,000, Deduct	-3.73		
		For >1,000, Deduct	-6.34		
32 16 13 13-0012	LF	CALTRANS Type B1-6 Straight Concrete Curb Assembly.....	29.62		12.19
		For Up To 20, Add	16.59		
		For >20 To 50, Add	9.36		
		For >50 To 100, Add	3.62		
		For >500 To 1,000, Deduct	-3.62		
		For >1,000, Deduct	-6.16		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 16 13 13-0013	LF	CALTRANS Type B1-6 Radius Concrete Curb Assembly	33.03	14.02	
		For Up To 20, Add	18.95		
		For >20 To 50, Add	10.71		
		For >50 To 100, Add	4.12		
		For >500 To 1,000, Deduct	-4.12		
		For >1,000, Deduct	-7.01		
32 16 13 13-0014	LF	CALTRANS Type B3-4 Straight Concrete Curb Assembly	112.35	7.43	
		For Up To 20, Add	77.33		
		For >20 To 50, Add	44.15		
		For >50 To 100, Add	16.59		
		For >500 To 1,000, Deduct	-16.59		
		For >1,000, Deduct	-27.69		
32 16 13 13-0015	LF	CALTRANS Type B3-4 Radius Concrete Curb Assembly	15.81	8.53	
		For Up To 20, Add	9.75		
		For >20 To 50, Add	5.53		
		For >50 To 100, Add	2.11		
		For >500 To 1,000, Deduct	-2.11		
		For >1,000, Deduct	-3.56		
32 16 13 13-0016	LF	CALTRANS Type B3-6 Straight Concrete Curb Assembly	15.26	7.68	
		For Up To 20, Add	8.97		
		For >20 To 50, Add	5.08		
		For >50 To 100, Add	1.95		
		For >500 To 1,000, Deduct	-1.95		
		For >1,000, Deduct	-3.30		
32 16 13 13-0017	LF	CALTRANS Type B3-6 Radius Concrete Curb Assembly	17.57	9.27	
		For Up To 20, Add	10.58		
		For >20 To 50, Add	6.00		
		For >50 To 100, Add	2.29		
		For >500 To 1,000, Deduct	-2.29		
		For >1,000, Deduct	-3.88		
32 16 13 13-0018	LF	CALTRANS Type D-4 Straight Concrete Curb Assembly	29.89	12.19	
		For Up To 20, Add	15.73		
		For >20 To 50, Add	8.84		
		For >50 To 100, Add	3.44		
		For >500 To 1,000, Deduct	-3.44		
		For >1,000, Deduct	-5.91		
32 16 13 13-0019	LF	CALTRANS Type D-4 Radius Concrete Curb Assembly	33.01	14.02	
		For Up To 20, Add	17.88		
		For >20 To 50, Add	10.07		
		For >50 To 100, Add	3.91		
		For >500 To 1,000, Deduct	-3.91		
		For >1,000, Deduct	-6.68		
32 16 13 13-0020	LF	CALTRANS Type D-6 Straight Concrete Curb Assembly	34.85	12.19	
		For Up To 20, Add	16.72		
		For >20 To 50, Add	9.34		
		For >50 To 100, Add	3.69		
		For >500 To 1,000, Deduct	-3.69		
		For >1,000, Deduct	-6.41		
32 16 13 13-0021	LF	CALTRANS Type D-6 Radius Concrete Curb Assembly	37.97	14.02	
		For Up To 20, Add	18.87		
		For >20 To 50, Add	10.56		
		For >50 To 100, Add	4.15		
		For >500 To 1,000, Deduct	-4.15		
		For >1,000, Deduct	-7.18		
32 16 13 13-0022 CALTRANS Cast In Place Concrete Curb And Gutter Assemblies (32 16 13 13)					
Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.					
32 16 13 13-0023	LF	CALTRANS Type A2-6 Straight Concrete Curb And Gutter Assembly	60.38	23.28	
		For Up To 20, Add	40.88		
		For >20 To 50, Add	22.77		
		For >50 To 100, Add	9.06		
		For >500 To 1,000, Deduct	-7.68		
		For >1,000, Deduct	-13.02		
		For Mountable Or Rolled Curb And Gutter, Add	3.90		
32 16 13 13-0024	LF	CALTRANS Type A2-6 Radius Concrete Curb And Gutter Assembly	65.28	25.74	
		For Up To 20, Add	44.31		
		For >20 To 50, Add	24.73		
		For >50 To 100, Add	9.79		
		For >500 To 1,000, Deduct	-8.41		
		For >1,000, Deduct	-14.25		
		For Mountable Or Rolled Curb And Gutter, Add	4.39		
32 16 13 13-0025	LF	CALTRANS Type A2-8 Straight Concrete Curb And Gutter Assembly	64.89	23.28	
		For Up To 20, Add	43.94		
		For >20 To 50, Add	24.47		
		For >50 To 100, Add	9.73		
		For >500 To 1,000, Deduct	-8.25		
		For >1,000, Deduct	-14.00		
		For Mountable Or Rolled Curb And Gutter, Add	4.19		
32 16 13 13-0026	LF	CALTRANS Type A2-8 Radius Concrete Curb And Gutter Assembly	70.15	25.74	
		For Up To 20, Add	47.62		
		For >20 To 50, Add	26.58		
		For >50 To 100, Add	10.52		
		For >500 To 1,000, Deduct	-9.04		
		For >1,000, Deduct	-15.31		
		For Mountable Or Rolled Curb And Gutter, Add	4.72		



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0027	LF		CALTRANS Type B2-4 Straight Concrete Curb And Gutter Assembly	33.69	13.35
			For Up To 20, Add	22.27	
			For >20 To 50, Add	12.17	
			For >50 To 100, Add	5.05	
			For >500 To 1,000, Deduct	-3.74	
			For >1,000, Deduct	-6.46	
			For Mountable Or Rolled Curb And Gutter, Add	1.34	
32 16 13 13-0028	LF		CALTRANS Type B2-4 Radius Concrete Curb And Gutter Assembly.....	35.66	14.71
			For Up To 20, Add	23.65	
			For >20 To 50, Add	12.95	
			For >50 To 100, Add	5.35	
			For >500 To 1,000, Deduct	-4.04	
			For >1,000, Deduct	-6.95	
			For Mountable Or Rolled Curb And Gutter, Add	1.53	
32 16 13 13-0029	LF		CALTRANS Type B2-6 Straight Concrete Curb And Gutter Assembly	40.05	14.71
			For Up To 20, Add	26.60	
			For >20 To 50, Add	14.59	
			For >50 To 100, Add	6.01	
			For >500 To 1,000, Deduct	-4.58	
			For >1,000, Deduct	-7.87	
			For Mountable Or Rolled Curb And Gutter, Add	1.79	
32 16 13 13-0030	LF		CALTRANS Type B2-6 Radius Concrete Curb And Gutter Assembly.....	42.50	19.61
			For Up To 20, Add	28.32	
			For >20 To 50, Add	15.57	
			For >50 To 100, Add	6.38	
			For >500 To 1,000, Deduct	-4.94	
			For >1,000, Deduct	-8.48	
			For Mountable Or Rolled Curb And Gutter, Add	2.03	
32 16 13 13-0031	LF		CALTRANS Type B4-6 Straight Concrete Curb And Gutter Assembly	64.68	25.61
			For Up To 20, Add	43.93	
			For >20 To 50, Add	24.53	
			For >50 To 100, Add	9.70	
			For >500 To 1,000, Deduct	-8.36	
			For >1,000, Deduct	-14.15	
			For Mountable Or Rolled Curb And Gutter, Add	4.38	
32 16 13 13-0032	LF		CALTRANS Type B4-6 Radius Concrete Curb And Gutter Assembly.....	69.34	27.93
			For Up To 20, Add	47.19	
			For >20 To 50, Add	26.39	
			For >50 To 100, Add	10.40	
			For >500 To 1,000, Deduct	-9.06	
			For >1,000, Deduct	-15.32	
			For Mountable Or Rolled Curb And Gutter, Add	4.85	
32 16 13 13-0033	LF		CALTRANS Type E Straight Concrete Curb And Gutter Assembly.....	69.11	26.96
			For Up To 20, Add	46.86	
			For >20 To 50, Add	26.12	
			For >50 To 100, Add	10.37	
			For >500 To 1,000, Deduct	-8.85	
			For >1,000, Deduct	-15.00	
			For Mountable Or Rolled Curb And Gutter, Add	4.56	
32 16 13 13-0034	LF		CALTRANS Type E Radius Concrete Curb And Gutter Assembly.....	74.02	29.40
			For Up To 20, Add	50.29	
			For >20 To 50, Add	28.09	
			For >50 To 100, Add	11.10	
			For >500 To 1,000, Deduct	-9.58	
			For >1,000, Deduct	-16.23	
			For Mountable Or Rolled Curb And Gutter, Add	5.05	
32 16 13 13-0035 Cast In Place Concrete Curbs Assemblies (32 16 13 13)					
Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0036	LF		"B3" Cast In Place Concrete Curb	14.07	12.19
32 16 13 13-0037	LF		"B3" Cast In Place Concrete Curb - Radius.....	15.89	14.02
32 16 13 13-0038	LF		"B1" Cast In Place Concrete Curb	30.96	12.19
32 16 13 13-0039	LF		"B1" Cast In Place Concrete Curb - Radius.....	35.35	13.41
32 16 13 13-0040	LF		"A1-150" Cast In Place Concrete Curb	30.29	12.19
32 16 13 13-0041	LF		"A1-150" Cast In Place Concrete Curb - Radius.....	34.59	13.41
32 16 13 13-0042	LF		"A1-200" Cast In Place Concrete Curb	31.26	12.19
32 16 13 13-0043	LF		"A1-200" Cast In Place Concrete Curb - Radius.....	35.68	13.41
32 16 13 13-0044	LF		6" x 12" Cast In Place Concrete Curb.....	25.81	12.19
			For Mountable Curb, Add	1.60	
			For Up To 20, Add	14.91	
			For >20 To 50, Add	8.43	
			For >50 To 100, Add	3.24	
			For >500 To 1,000, Deduct	-3.24	
			For >1,000, Deduct	-5.51	
32 16 13 13-0045	LF		6" x 12" Cast In Place Concrete Curb - Radius.....	29.27	14.02
			For Mountable Curb, Add	1.89	
			For Up To 20, Add	17.13	
			For >20 To 50, Add	9.69	
			For >50 To 100, Add	3.72	
			For >500 To 1,000, Deduct	-3.72	
			For >1,000, Deduct	-6.31	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0046	LF		6" x 14" Cast In Place Concrete Curb	28.14	12.19
			For Mountable Curb, Add	1.76	
			For Up To 20, Add	16.30	
			For >20 To 50, Add	9.22	
			For >50 To 100, Add	3.54	
			For >500 To 1,000, Deduct	-3.54	
			For >1,000, Deduct	-6.02	
32 16 13 13-0047	LF		6" x 14" Cast In Place Concrete Curb - Radius	31.93	14.02
			For Mountable Curb, Add	2.07	
			For Up To 20, Add	18.73	
			For >20 To 50, Add	10.60	
			For >50 To 100, Add	4.06	
			For >500 To 1,000, Deduct	-4.06	
			For >1,000, Deduct	-6.90	
32 16 13 13-0048	LF		6" x 16" Cast In Place Concrete Curb	30.74	12.19
			For Mountable Curb, Add	1.90	
			For Up To 20, Add	17.73	
			For >20 To 50, Add	10.02	
			For >50 To 100, Add	3.85	
			For >500 To 1,000, Deduct	-3.85	
			For >1,000, Deduct	-6.55	
32 16 13 13-0049	LF		6" x 16" Cast In Place Concrete Curb - Radius	34.78	18.28
			For Mountable Curb, Add	2.24	
			For Up To 20, Add	20.37	
			For >20 To 50, Add	11.52	
			For >50 To 100, Add	4.42	
			For >500 To 1,000, Deduct	-4.42	
			For >1,000, Deduct	-7.50	
32 16 13 13-0050	LF		6" x 18" Cast In Place Concrete Curb	32.79	12.19
			For Mountable Curb, Add	2.02	
			For Up To 20, Add	18.88	
			For >20 To 50, Add	10.67	
			For >50 To 100, Add	4.10	
			For >500 To 1,000, Deduct	-4.10	
			For >1,000, Deduct	-6.98	
32 16 13 13-0051	LF		6" x 18" Cast In Place Concrete Curb - Radius	36.77	14.02
			For Mountable Curb, Add	2.32	
			For Up To 20, Add	21.37	
			For >20 To 50, Add	12.09	
			For >50 To 100, Add	4.64	
			For >500 To 1,000, Deduct	-4.64	
			For >1,000, Deduct	-7.88	
32 16 13 13-0052	LF		6" x 24" Cast In Place Concrete Curb	37.36	13.41
			For Mountable Curb, Add	2.15	
			For Up To 20, Add	21.02	
			For >20 To 50, Add	11.87	
			For >50 To 100, Add	4.58	
			For >500 To 1,000, Deduct	-4.58	
			For >1,000, Deduct	-7.80	
32 16 13 13-0053	LF		6" x 24" Cast In Place Concrete Curb - Radius	41.54	15.24
			For Mountable Curb, Add	2.44	
			For Up To 20, Add	23.54	
			For >20 To 50, Add	13.30	
			For >50 To 100, Add	5.12	
			For >500 To 1,000, Deduct	-5.12	
			For >1,000, Deduct	-8.72	
32 16 13 13-0054	LF		12" x 24" Cast In Place Concrete Curb	47.50	15.24
			For Mountable Curb, Add	2.11	
			For Up To 20, Add	24.74	
			For >20 To 50, Add	13.89	
			For >50 To 100, Add	5.42	
			For >500 To 1,000, Deduct	-5.42	
			For >1,000, Deduct	-9.32	
32 16 13 13-0055	LF		12" x 24" Cast In Place Concrete Curb - Radius	52.64	17.06
			For Mountable Curb, Add	2.39	
			For Up To 20, Add	27.59	
			For >20 To 50, Add	15.50	
			For >50 To 100, Add	6.05	
			For >500 To 1,000, Deduct	-6.05	
			For >1,000, Deduct	-10.38	
32 16 13 13-0056	EA		Additional Finish For Handicap Drop Section In Curb	91.43	
32 16 13 13-0057			Cast In Place Concrete Curb And Gutter Assemblies (32 16 13 13)		
			Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0058	LF		"A2-6 Modified" Concrete Curb And Gutter - Straight	35.97	14.71
			For Up To 20, Add	24.16	
			For >20 To 50, Add	13.37	
			For >50 To 100, Add	5.40	
			For >500 To 1,000, Deduct	-4.37	
			For >1,000, Deduct	-7.46	
			For Mountable Or Rolled Curb And Gutter, Add	2.01	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13	13-0059	LF	"A2-6 Modified" Concrete Curb And Gutter - Radius	39.50	14.71
			For Up To 20, Add	26.52	
			For >20 To 50, Add	14.67	
			For >50 To 100, Add	5.93	
			For >500 To 1,000, Deduct	-4.79	
			For >1,000, Deduct	-8.18	
			For Mountable Or Rolled Curb And Gutter, Add	2.20	
32 16 13	13-0060	LF	"A2-6" Concrete Curb And Gutter - Straight.....	47.55	19.61
			For Up To 20, Add	32.45	
			For >20 To 50, Add	18.19	
			For >50 To 100, Add	7.13	
			For >500 To 1,000, Deduct	-6.30	
			For >1,000, Deduct	-10.64	
			For Mountable Or Rolled Curb And Gutter, Add	3.46	
32 16 13	13-0061	LF	"A2-6" Concrete Curb And Gutter - Radius.....	59.54	22.06
			For Up To 20, Add	40.13	
			For >20 To 50, Add	22.27	
			For >50 To 100, Add	8.93	
			For >500 To 1,000, Deduct	-7.39	
			For >1,000, Deduct	-12.57	
			For Mountable Or Rolled Curb And Gutter, Add	3.56	
32 16 13	13-0062	LF	"B-2" Concrete Curb And Gutter - Straight.....	57.19	21.45
			For Up To 20, Add	38.60	
			For >20 To 50, Add	21.45	
			For >50 To 100, Add	8.58	
			For >500 To 1,000, Deduct	-7.15	
			For >1,000, Deduct	-12.15	
			For Mountable Or Rolled Curb And Gutter, Add	3.50	
32 16 13	13-0063	LF	"B-2" Concrete Curb And Gutter - Radius.....	58.79	21.45
			For Up To 20, Add	39.56	
			For >20 To 50, Add	21.93	
			For >50 To 100, Add	8.82	
			For >500 To 1,000, Deduct	-7.23	
			For >1,000, Deduct	-12.31	
			For Mountable Or Rolled Curb And Gutter, Add	3.41	
32 16 13	13-0064	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	34.36	14.71
			For Up To 20, Add	23.19	
			For >20 To 50, Add	12.88	
			For >50 To 100, Add	5.15	
			For >500 To 1,000, Deduct	-4.29	
			For >1,000, Deduct	-7.30	
			For Mountable Or Rolled Curb And Gutter, Add	2.10	
32 16 13	13-0065	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	37.26	19.61
			For Up To 20, Add	25.18	
			For >20 To 50, Add	14.00	
			For >50 To 100, Add	5.59	
			For >500 To 1,000, Deduct	-4.68	
			For >1,000, Deduct	-7.95	
			For Mountable Or Rolled Curb And Gutter, Add	2.32	
32 16 13	13-0066	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	42.95	16.29
			For Up To 20, Add	29.02	
			For >20 To 50, Add	16.13	
			For >50 To 100, Add	6.44	
			For >500 To 1,000, Deduct	-5.39	
			For >1,000, Deduct	-9.17	
			For Mountable Or Rolled Curb And Gutter, Add	2.67	
32 16 13	13-0067	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	47.21	18.13
			For Up To 20, Add	31.94	
			For >20 To 50, Add	17.78	
			For >50 To 100, Add	7.08	
			For >500 To 1,000, Deduct	-5.97	
			For >1,000, Deduct	-10.14	
			For Mountable Or Rolled Curb And Gutter, Add	3.01	
32 16 13	13-0068	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	51.54	19.61
			For Up To 20, Add	34.84	
			For >20 To 50, Add	19.38	
			For >50 To 100, Add	7.73	
			For >500 To 1,000, Deduct	-6.50	
			For >1,000, Deduct	-11.03	
			For Mountable Or Rolled Curb And Gutter, Add	3.24	
32 16 13	13-0069	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	57.18	22.06
			For Up To 20, Add	38.72	
			For >20 To 50, Add	21.56	
			For >50 To 100, Add	8.58	
			For >500 To 1,000, Deduct	-7.27	
			For >1,000, Deduct	-12.33	
			For Mountable Or Rolled Curb And Gutter, Add	3.69	
32 16 13	13-0070	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	60.76	23.28
			For Up To 20, Add	41.11	
			For >20 To 50, Add	22.88	
			For >50 To 100, Add	9.11	
			For >500 To 1,000, Deduct	-7.69	
			For >1,000, Deduct	-13.06	
			For Mountable Or Rolled Curb And Gutter, Add	3.88	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0071 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	66.55	25.74
For Up To 20, Add	45.08	
For >20 To 50, Add	25.11	
For >50 To 100, Add	9.98	
For >500 To 1,000, Deduct	-8.47	
For >1,000, Deduct	-14.37	
For Mountable Or Rolled Curb And Gutter, Add	4.32	
32 16 13 13-0072 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	69.97	26.96
For Up To 20, Add	47.37	
For >20 To 50, Add	26.38	
For >50 To 100, Add	10.50	
For >500 To 1,000, Deduct	-8.89	
For >1,000, Deduct	-15.08	
For Mountable Or Rolled Curb And Gutter, Add	4.51	
32 16 13 13-0073 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	75.92	29.40
For Up To 20, Add	51.43	
For >20 To 50, Add	28.66	
For >50 To 100, Add	11.39	
For >500 To 1,000, Deduct	-9.68	
For >1,000, Deduct	-16.42	
For Mountable Or Rolled Curb And Gutter, Add	4.94	
32 16 13 13-0074 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	79.19	30.63
For Up To 20, Add	53.64	
For >20 To 50, Add	29.88	
For >50 To 100, Add	11.88	
For >500 To 1,000, Deduct	-10.09	
For >1,000, Deduct	-17.11	
For Mountable Or Rolled Curb And Gutter, Add	5.14	
32 16 13 13-0075 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	87.73	34.30
For Up To 20, Add	59.50	
For >20 To 50, Add	33.18	
For >50 To 100, Add	13.16	
For >500 To 1,000, Deduct	-11.25	
For >1,000, Deduct	-19.07	
For Mountable Or Rolled Curb And Gutter, Add	5.81	
32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)		
Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0001 Curbs, Machine Formed, Slip Form (32 16 13 14)		
Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0002 EA Machine Formed Concrete Curb Minimum Set-Up Charge (One Time Per Job)	1,625.76	
Note: For projects where the total curbing charge is less than the minimum set-up charge, use this task exclusively. This task shall not be used in conjunction with any other tasks in this section.		
32 16 13 14-0003 LF 6" x 12" Straight Concrete Curb, Machine Formed	14.01	
32 16 13 14-0004 LF 6" x 12" Curved Concrete Curb, Machine Formed	19.02	
32 16 13 14-0005 LF 6" x 18" Straight Concrete Curb, Machine Formed	18.51	
32 16 13 14-0006 LF 6" x 18" Curved Concrete Curb, Machine Formed	24.38	
32 16 13 16 Steel Faced Curbs (32 16 13)		
Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16)		
Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002 LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	16.05	5.58
For Curved Section, Add	3.69	
32 16 13 16-0003 LF 4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	17.74	6.35
For Curved Section, Add	4.16	
32 16 13 16-0004 LF 6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	23.55	7.11
For Curved Section, Add	5.03	
32 16 13 16-0005 LF 8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	28.71	8.00
For Curved Section, Add	5.85	
32 16 13 16-0006 LF 10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	34.88	8.76
For Curved Section, Add	6.76	
32 16 13 16-0007 LF 12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	45.53	11.17
For Curved Section, Add	8.72	
32 16 13 16-0008 LF 13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	52.90	14.46
For Curved Section, Add	10.70	
32 16 13 16-0009 EA Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section	161.59	
32 16 13 16-0010 EA Pedestrian/Handicap Ramp, Complete	154.46	
32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)		
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)		
Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0002 LF 2' Wide Cast In Place Concrete Valley Gutter, 6" Thick	24.66	
For Up To 20, Add	11.38	
For >20 To 50, Add	6.33	
For >50 To 100, Add	2.52	
For >500 To 1,000, Deduct	-2.52	
For >1,000, Deduct	-4.40	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0003	LF	2-1/2'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	30.23	
			For Up To 20, Add	13.81	
			For >20 To 50, Add	7.68	
			For >50 To 100, Add	3.06	
			For >500 To 1,000, Deduct	-3.06	
			For >1,000, Deduct	-5.35	
32 16 13 19-0004	LF	3'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	35.74	
			For Up To 20, Add	16.19	
			For >20 To 50, Add	9.00	
			For >50 To 100, Add	3.60	
			For >500 To 1,000, Deduct	-3.60	
			For >1,000, Deduct	-6.29	
32 16 13 19-0005	LF	3-1/2'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	41.22	
			For Up To 20, Add	18.56	
			For >20 To 50, Add	10.31	
			For >50 To 100, Add	4.12	
			For >500 To 1,000, Deduct	-4.12	
			For >1,000, Deduct	-7.22	
32 16 13 19-0006	LF	4'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	46.72	
			For Up To 20, Add	20.94	
			For >20 To 50, Add	11.63	
			For >50 To 100, Add	4.66	
			For >500 To 1,000, Deduct	-4.66	
			For >1,000, Deduct	-8.15	
32 16 13 19-0007	LF	5'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	55.50	
			For Up To 20, Add	24.15	
			For >20 To 50, Add	13.38	
			For >50 To 100, Add	5.38	
			For >500 To 1,000, Deduct	-5.38	
			For >1,000, Deduct	-9.46	
32 16 13 19-0008	LF	6'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	63.94	
			For Up To 20, Add	27.11	
			For >20 To 50, Add	14.99	
			For >50 To 100, Add	6.06	
			For >500 To 1,000, Deduct	-6.06	
			For >1,000, Deduct	-10.69	
32 16 13 19-0009	SF	>6'	Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	10.66	
			For Up To 100, Add	4.52	
			For >100 To 250, Add	2.50	
			For >250 To 500, Add	1.01	
			For >2,500 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-1.78	
32 16 13 19-0010	LF	2'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	27.13	
			For Up To 20, Add	12.22	
			For >20 To 50, Add	6.79	
			For >50 To 100, Add	2.72	
			For >500 To 1,000, Deduct	-2.72	
			For >1,000, Deduct	-4.75	
32 16 13 19-0011	LF	2-1/2'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	33.49	
			For Up To 20, Add	14.98	
			For >20 To 50, Add	8.32	
			For >50 To 100, Add	3.33	
			For >500 To 1,000, Deduct	-3.33	
			For >1,000, Deduct	-5.83	
32 16 13 19-0012	LF	3'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	39.39	
			For Up To 20, Add	17.42	
			For >20 To 50, Add	9.66	
			For >50 To 100, Add	3.88	
			For >500 To 1,000, Deduct	-3.88	
			For >1,000, Deduct	-6.80	
32 16 13 19-0013	LF	3-1/2'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	45.46	
			For Up To 20, Add	19.98	
			For >20 To 50, Add	11.08	
			For >50 To 100, Add	4.45	
			For >500 To 1,000, Deduct	-4.45	
			For >1,000, Deduct	-7.81	
32 16 13 19-0014	LF	4'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	51.56	
			For Up To 20, Add	22.55	
			For >20 To 50, Add	12.50	
			For >50 To 100, Add	5.03	
			For >500 To 1,000, Deduct	-5.03	
			For >1,000, Deduct	-8.83	
32 16 13 19-0015	LF	5'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	61.38	
			For Up To 20, Add	26.04	
			For >20 To 50, Add	14.40	
			For >50 To 100, Add	5.82	
			For >500 To 1,000, Deduct	-5.82	
			For >1,000, Deduct	-10.27	
32 16 13 19-0016	LF	6'	Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	70.86	
			For Up To 20, Add	29.29	
			For >20 To 50, Add	16.16	
			For >50 To 100, Add	6.57	
			For >500 To 1,000, Deduct	-6.57	
			For >1,000, Deduct	-11.62	

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0017	SF		>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	11.81	
			For Up To 100, Add	4.88	
			For >100 To 250, Add	2.69	
			For >250 To 500, Add	1.09	
			For >2,500 To 5,000, Deduct	-1.09	
			For >5,000, Deduct	-1.94	
32 16 13 19-0018	LF		2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	27.29	
			For Up To 20, Add	12.60	
			For >20 To 50, Add	7.02	
			For >50 To 100, Add	2.79	
			For >500 To 1,000, Deduct	-2.79	
			For >1,000, Deduct	-4.87	
32 16 13 19-0019	LF		2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	33.49	
			For Up To 20, Add	15.32	
			For >20 To 50, Add	8.52	
			For >50 To 100, Add	3.40	
			For >500 To 1,000, Deduct	-3.40	
			For >1,000, Deduct	-5.94	
32 16 13 19-0020	LF		3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	39.58	
			For Up To 20, Add	17.96	
			For >20 To 50, Add	9.98	
			For >50 To 100, Add	3.99	
			For >500 To 1,000, Deduct	-3.99	
			For >1,000, Deduct	-6.97	
32 16 13 19-0021	LF		3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	45.68	
			For Up To 20, Add	20.60	
			For >20 To 50, Add	11.45	
			For >50 To 100, Add	4.58	
			For >500 To 1,000, Deduct	-4.58	
			For >1,000, Deduct	-8.01	
32 16 13 19-0022	LF		4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	51.77	
			For Up To 20, Add	23.24	
			For >20 To 50, Add	12.91	
			For >50 To 100, Add	5.17	
			For >500 To 1,000, Deduct	-5.17	
			For >1,000, Deduct	-9.04	
32 16 13 19-0023	LF		5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	61.49	
32 16 13 19-0024	LF		6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	70.83	
32 16 13 19-0025	SF		>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	11.81	
			For Up To 100, Add	5.02	
			For >100 To 250, Add	2.77	
			For >250 To 500, Add	1.12	
			For >2,500 To 5,000, Deduct	-1.12	
			For >5,000, Deduct	-1.98	
32 16 13 19-0026			Gutter Intersections (32 16 13 19)		
			Note: Assembly includes installation, concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0027	EA		Cast In Place Concrete Cross Gutter At T Section	1,234.26	
32 16 13 19-0028	EA		8' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	1,487.93	
32 16 13 19-0029	EA		10' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	2,324.88	
32 16 13 19-0030	EA		15' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	5,230.99	
32 16 13 19-0031	EA		20' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	9,299.54	
32 16 13 19-0032	EA		25' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	14,530.53	
32 16 13 19-0033	EA		30' Cast In Place Concrete Alley Intersection Or Typical Cross Gutter.....	20,923.96	
32 16 13 19-0034			Driveway Approach, Cast In Place (32 16 13 19)		
			Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0035	SF		4 Cast In Place Concrete Driveway Approach	15.32	
			For Up To 100, Add	6.86	
			For >100 To 500, Add	1.98	
			For >2,000 To 5,000, Deduct	-0.91	
			For >5,000 To 10,000, Deduct	-1.98	
32 16 13 19-0036	SF		6" Cast In Place Concrete Driveway Approach	20.98	
			For Up To 100, Add	9.38	
			For >100 To 500, Add	2.70	
			For >2,000 To 5,000, Deduct	-1.24	
			For >5,000 To 10,000, Deduct	-2.70	
32 16 13 23			Precast Concrete Curbs and Gutters (32 16 13)		
32 16 13 23-0001			Precast Concrete Curb (32 16 13 23)		
32 16 13 23-0002	LF		6" x 18" Precast Concrete Curb	46.70	10.84
32 16 13 23-0003	LF		6" x 18" Precast Concrete Curb, Radius	55.80	12.47
32 16 13 23-0004	LF		6" x 20" Precast Concrete Curb	49.56	10.84
32 16 13 23-0005	LF		6" x 20" Precast Concrete Curb, Radius	59.59	12.47
32 16 13 23-0006	LF		7" x 18" Precast Concrete Curb	50.87	10.84
32 16 13 23-0007	LF		7" x 18" Precast Concrete Curb, Radius	61.09	12.47
32 16 13 23-0008	LF		7" x 20" Precast Concrete Curb	54.11	10.84
32 16 13 23-0009	LF		7" x 20" Precast Concrete Curb, Radius	65.21	12.47



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Curbs, Gutters, Sidewalks, and Driveways		32 16

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
32 16 13 33 Asphalt Curbs (32 16 13)				
32 16 13 33-0001 Asphalt Curbs (32 16 13 33)				
32 16 13 33-0002	LF	6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain	13.80	5.71
32 16 13 33-0003	LF	8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain	15.52	6.35
32 16 13 33-0004	LF	8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain	17.12	6.98
32 16 13 43 Stone Curbs (32 16 13)				
32 16 13 43-0001 Remove And Reset Stone And Precast Curbing (32 16 13 43)				
Note: Includes storage and cleaning.				
32 16 13 43-0002	LF	Removal And Resetting Of Stone Or Precast Curbing	40.28	
Note: Includes storage and cleaning.				
32 16 23 Sidewalks (32 16)				
32 16 23 00-0001 Cast In Place Concrete Sidewalk Assemblies (32 16 23)				
Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, sealer, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0079 for buggies, 03 31 13 00-0086 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.				
32 16 23 00-0002	SF	4" Cast In Place Concrete Sidewalk	9.94	
		For Up To 100, Add	4.27	
		For >100 To 500, Add	1.21	
		For 3,500 PSI Concrete, Add	0.13	
		For 4,000 PSI Concrete, Add	0.22	
		For 4,500 PSI Concrete, Add	0.26	
		For Welded Wire Reinforcement, Add	0.88	
		For >2,000 To 5,000, Deduct	-0.53	
		For >5,000 To 10,000, Deduct	-1.21	
		For >10,000 To 20,000, Deduct	-1.64	
		For >20,000, Deduct	-2.06	
32 16 23 00-0003	SF	5" Cast In Place Concrete Sidewalk	10.83	
		For Up To 100, Add	4.56	
		For >100 To 500, Add	1.28	
		For 3,500 PSI Concrete, Add	0.16	
		For 4,000 PSI Concrete, Add	0.27	
		For 4,500 PSI Concrete, Add	0.32	
		For Welded Wire Reinforcement, Add	0.88	
		For >2,000 To 5,000, Deduct	-0.56	
		For >5,000 To 10,000, Deduct	-1.28	
		For >10,000 To 20,000, Deduct	-1.74	
		For >20,000, Deduct	-2.19	
32 16 23 00-0004	SF	6" Cast In Place Concrete Sidewalk	11.73	
		For Up To 100, Add	4.85	
		For >100 To 500, Add	1.35	
		For 3,500 PSI Concrete, Add	0.19	
		For 4,000 PSI Concrete, Add	0.33	
		For 4,500 PSI Concrete, Add	0.38	
		For Welded Wire Reinforcement, Add	0.88	
		For >2,000 To 5,000, Deduct	-0.57	
		For >5,000 To 10,000, Deduct	-1.35	
		For >10,000 To 20,000, Deduct	-1.84	
		For >20,000, Deduct	-2.32	
32 16 23 00-0005	SF	7" Cast In Place Concrete Sidewalk	13.63	
		For Up To 100, Add	5.58	
		For >100 To 500, Add	1.55	
		For 3,500 PSI Concrete, Add	0.23	
		For 4,000 PSI Concrete, Add	0.40	
		For 4,500 PSI Concrete, Add	0.46	
		For Welded Wire Reinforcement, Add	0.88	
		For >2,000 To 5,000, Deduct	-0.65	
		For >5,000 To 10,000, Deduct	-1.55	
		For >10,000 To 20,000, Deduct	-2.11	
		For >20,000, Deduct	-2.67	
32 16 23 00-0006	SF	8" Cast In Place Concrete Sidewalk	14.41	
		For Up To 100, Add	5.81	
		For >100 To 500, Add	1.60	
		For 3,500 PSI Concrete, Add	0.26	
		For 4,000 PSI Concrete, Add	0.45	
		For 4,500 PSI Concrete, Add	0.52	
		For Welded Wire Reinforcement, Add	0.88	
		For >2,000 To 5,000, Deduct	-0.66	
		For >5,000 To 10,000, Deduct	-1.60	
		For >10,000 To 20,000, Deduct	-2.19	
		For >20,000, Deduct	-2.77	
32 16 23 00-0007	SF	For Exposed Aggregate Finish In Sidewalk	2.76	
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk	165.49	
Note: Excludes patterned (tactile) finish.				
32 16 23 00-0009	LF	For Hand Trowel Finish At Sidewalk Edges (Picture Frame)	2.76	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST	UNIT COST	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop		39.43	7.70
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop		42.55	7.70
32 17 13 26 Wood Parking Bumpers (32 17 13)					
32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated		10.77	1.85
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated		14.08	1.85
32 17 16 Manufactured Traffic-Calming Devices (32 17)					
32 17 16 00-0001 Modular Rubber Speed Tables (32 17 16)					
Note: 3" high flat-topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.					
32 17 16 00-0002	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table		71.11	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0003	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table		62.12	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0004	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table		58.29	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0005	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table		68.04	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0006	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table		59.82	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0007	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table		56.44	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0008	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table		64.98	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0009	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table		58.03	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0010	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table		54.91	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.					
32 17 16 00-0011 Asphalt Speed Table (32 17 16)					
Note: Excludes pavement markings or reflectors.					
32 17 16 00-0012	LF	Up to 36" Run, Asphalt Speed Table With 3" Center Crown		39.48	
Note: Tapered on edges to roadway.					
32 17 16 00-0013	LF	>36" To 48" Run, Asphalt Speed Table With 3" Center Crown		46.57	
Note: Tapered on edges to roadway.					
32 17 16 00-0014	LF	Up to 36" Run, Asphalt Speed Table With 4" Center Crown		49.61	
Note: Tapered on edges to roadway.					
32 17 16 00-0015	LF	>36" To 48" Run, Asphalt Speed Table With 4" Center Crown		58.54	
Note: Tapered on edges to roadway.					
32 17 16 00-0016	LF	Up to 36" Run, Asphalt Speed Table With 6" Center Crown		60.78	
Note: Tapered on edges to roadway.					
32 17 16 00-0017	LF	>36" To 48" Run, Asphalt Speed Table With 6" Center Crown		67.86	
Note: Tapered on edges to roadway.					
32 17 16 00-0018 Speed Bumps (32 17 16)					
Note: Excludes pavement markings or reflectors.					
32 17 16 00-0019	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump		37.58	1.95
32 17 16 00-0020	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump		31.10	1.30
32 17 16 00-0021	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump		157.01	1.30
32 17 23 Pavement Markings (32 17)					
32 17 23 13 Painted Pavement Markings (32 17 23)					
32 17 23 13-0001 Minimum Charge For Pavement Striping (32 17 23 13)					
32 17 23 13-0002	EA	Pavement Striping Minimum Charge		448.42	
32 17 23 13-0003 Painted Pavement Striping, Letters, Symbols And Markers for Roads (32 17 23 13)					
Note: Includes primers, adhesive and reflective glass beads. For broken line quantities use total lane length. Per Coat.					
32 17 23 13-0004 Painted Epoxy Reflective Pavement Marking (32 17 23 13-0003)					
Note: 15 mil thickness.					
32 17 23 13-0005	LF	Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping		0.59	
For 20 Mil Thickness, Add				0.12	
For Up To 5,000 LF, Add				0.12	
For >25,000 LF, Deduct				-0.09	
For Broken Line (25% Solid), Deduct				-0.25	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0006	LF		Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.80	
			For 20 Mil Thickness, Add	0.18	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
			For Broken Line (25% Solid), Deduct	-0.37	
32 17 23 13-0007	LF		Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.97	
			For 20 Mil Thickness, Add	0.21	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.15	
			For Broken Line (25% Solid), Deduct	-0.44	
32 17 23 13-0008	LF		Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.47	
			For 20 Mil Thickness, Add	0.35	
			For Up To 5,000 LF, Add	0.29	
			For >25,000 LF, Deduct	-0.22	
			For Broken Line (25% Solid), Deduct	-0.72	
32 17 23 13-0009	LF		Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.90	
			For 20 Mil Thickness, Add	0.23	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.14	
			For Broken Line On One Side, Deduct	-0.24	
			For Double Broken Line, Deduct	-0.48	
32 17 23 13-0010	LF		Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.28	
			For 20 Mil Thickness, Add	0.34	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.19	
			For Broken Line On One Side, Deduct	-0.36	
			For Double Broken Line, Deduct	-0.73	
32 17 23 13-0011	SF		Solid Area, Epoxy Reflective Pavement Marking.....	8.56	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
			For 20 Mil Thickness, Add	0.95	
32 17 23 13-0012	EA		6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	5.33	
			For 20 Mil Thickness, Add	0.47	
			For <10, Add	0.69	
			For >50 To 100, Deduct	-0.35	
			For >100 To 200, Deduct	-0.46	
			For >200, Deduct	-0.92	
32 17 23 13-0013	EA		12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	9.59	
			For 20 Mil Thickness, Add	1.23	
			For <10, Add	1.04	
			For >50 To 100, Deduct	-0.52	
			For >100 To 200, Deduct	-0.69	
			For >200, Deduct	-1.39	
32 17 23 13-0014	EA		24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	16.18	
			For 20 Mil Thickness, Add	2.12	
			For <10, Add	1.73	
			For >50 To 100, Deduct	-0.87	
			For >100 To 200, Deduct	-1.15	
			For >200, Deduct	-2.31	
32 17 23 13-0015	EA		36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	31.24	
			For 20 Mil Thickness, Add	3.87	
			For <10, Add	3.46	
			For >50 To 100, Deduct	-1.73	
			For >100 To 200, Deduct	-2.31	
			For >200, Deduct	-4.62	
32 17 23 13-0016	EA		48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	36.50	
			For 20 Mil Thickness, Add	4.83	
			For <10, Add	3.88	
			For >50 To 100, Deduct	-1.94	
			For >100 To 200, Deduct	-2.59	
			For >200, Deduct	-5.18	
32 17 23 13-0017	EA		72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	65.44	
			For 20 Mil Thickness, Add	8.76	
			For <10, Add	6.91	
			For >50 To 100, Deduct	-3.45	
			For >100 To 200, Deduct	-4.61	
			For >200, Deduct	-9.21	
32 17 23 13-0018	EA		96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	87.36	
			For 20 Mil Thickness, Add	11.59	
			For <10, Add	9.28	
			For >50 To 100, Deduct	-4.64	
			For >100 To 200, Deduct	-6.19	
			For >200, Deduct	-12.37	
32 17 23 13-0019	EA		120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	133.57	
			For 20 Mil Thickness, Add	22.80	
			For <10, Add	11.50	
			For >50 To 100, Deduct	-5.75	
			For >100 To 200, Deduct	-7.67	
			For >200, Deduct	-15.33	
32 17 23 13-0020	SF		Letter/Number, Epoxy Reflective Pavement Marking.....	8.78	
			For 20 Mil Thickness, Add	0.96	
32 17 23 13-0021	SF		Symbols, Epoxy Reflective Pavement Marking.....	11.14	
			Note: Handicap, railroad, diamond, arrows, etc.		

32 17 23 13-0022 Painted Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0003)
Note: 15 mil thickness.



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Paving Specialties		32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0023	LF		Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.35	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
			For Broken Line (25% Solid), Deduct	-0.07	
32 17 23 13-0024	LF		Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.44	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
			For Broken Line (25% Solid), Deduct	-0.10	
32 17 23 13-0025	LF		Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.55	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line (25% Solid), Deduct	-0.12	
32 17 23 13-0026	LF		Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.75	
			Note: Includes solvent based and latex paints.		
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
			For Broken Line (25% Solid), Deduct	-0.18	
32 17 23 13-0027	LF		Double 4" Wide Solid Lines, Painted Reflective Pavement Striping	0.50	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
			For Broken Line On One Side, Deduct	-0.06	
			For Double Broken Line, Deduct	-0.12	
32 17 23 13-0028	LF		Double 6" Wide Solid Lines, Painted Reflective Pavement Striping	0.75	
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
			For Broken Line On One Side, Deduct	-0.09	
			For Double Broken Line, Deduct	-0.18	
32 17 23 13-0029	SF		Solid Area, Painted Reflective Pavement Striping	6.96	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0030	EA		6" (15 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	5.04	
			Note: Includes solvent based and latex paints.		
			For <10, Add	0.69	
			For >50 To 100, Deduct	-0.35	
			For >100 To 200, Deduct	-0.46	
			For >200, Deduct	-0.92	
32 17 23 13-0031	EA		12" (31 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	8.55	
			Note: Includes solvent based and latex paints.		
			For <10, Add	1.04	
			For >50 To 100, Deduct	-0.52	
			For >100 To 200, Deduct	-0.69	
			For >200, Deduct	-1.39	
32 17 23 13-0032	EA		24" (61 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	14.35	
			Note: Includes solvent based and latex paints.		
			For <10, Add	1.73	
			For >50 To 100, Deduct	-0.87	
			For >100 To 200, Deduct	-1.15	
			For >200, Deduct	-2.31	
32 17 23 13-0033	EA		36" (91 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	28.03	
			Note: Includes solvent based and latex paints.		
			For <10, Add	3.46	
			For >50 To 100, Deduct	-1.73	
			For >100 To 200, Deduct	-2.31	
			For >200, Deduct	-4.62	
32 17 23 13-0034	EA		48" (122 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	32.32	
			Note: Includes solvent based and latex paints.		
			For <10, Add	3.88	
			For >50 To 100, Deduct	-1.94	
			For >100 To 200, Deduct	-2.59	
			For >200, Deduct	-5.18	
32 17 23 13-0035	EA		72" (183 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	57.81	
			Note: Includes solvent based and latex paints.		
			For <10, Add	6.91	
			For >50 To 100, Deduct	-3.45	
			For >100 To 200, Deduct	-4.61	
			For >200, Deduct	-9.21	
32 17 23 13-0036	EA		96" (244 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	77.32	
			Note: Includes solvent based and latex paints.		
			For <10, Add	9.28	
			For >50 To 100, Deduct	-4.64	
			For >100 To 200, Deduct	-6.19	
			For >200, Deduct	-12.37	
32 17 23 13-0037	EA		120" (305 cm) High, Letter/Number, Painted Reflective Pavement Marking.....	111.16	
			Note: Includes solvent based and latex paints.		
			For <10, Add	11.50	
			For >50 To 100, Deduct	-5.75	
			For >100 To 200, Deduct	-7.67	
			For >200, Deduct	-15.33	
32 17 23 13-0038	SF		Letter/Number, Painted Reflective Pavement Marking	8.05	
			Note: Includes solvent based and latex paints.		
32 17 23 13-0039	SF		Symbols, Painted Reflective Pavement Marking	9.63	
			Note: Handicap, railroad, diamond, arrows, etc. Includes solvent based and latex paints.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 17 23 13-0040	Painted Thermoplastic Reflective Pavement Marking (32 17 23 13-0003)		
	Note: 40 mil thickness.		
32 17 23 13-0041	LF Single 4" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	0.76	
	For Up To 5,000 LF, Add	0.15	
	For >25,000 LF, Deduct	-0.11	
	For 30 mils Thick, Deduct	-0.13	
	For 45 mils Thick, Add	0.06	
	For Broken Line (25% Solid), Deduct	-0.38	
	For Enhanced Wet-Night Visibility, Add	0.04	
32 17 23 13-0042	LF Single 6" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.03	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.21	
	For >25,000 LF, Deduct	-0.15	
	For 30 mils Thick, Deduct	-0.18	
	For 45 mils Thick, Add	0.09	
	For Broken Line (25% Solid), Deduct	-0.54	
	For Enhanced Wet-Night Visibility, Add	0.06	
32 17 23 13-0043	LF Single 8" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.38	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.28	
	For >25,000 LF, Deduct	-0.21	
	For 30 mils Thick, Deduct	-0.25	
	For 45 mils Thick, Add	0.12	
	For Broken Line (25% Solid), Deduct	-0.74	
	For Enhanced Wet-Night Visibility, Add	0.08	
32 17 23 13-0044	LF Single 12" Wide Solid Line, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.99	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.40	
	For >25,000 LF, Deduct	-0.30	
	For 30 mils Thick, Deduct	-0.37	
	For 45 mils Thick, Add	0.19	
	For Broken Line (25% Solid), Deduct	-1.11	
	For Enhanced Wet-Night Visibility, Add	0.12	
32 17 23 13-0045	LF Double 4" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.33	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.27	
	For >25,000 LF, Deduct	-0.20	
	For 30 mils Thick, Deduct	-0.25	
	For 45 mils Thick, Add	0.12	
	For Broken Line On One Side, Deduct	-0.37	
	For Double Broken Line, Deduct	-0.74	
	For Enhanced Wet-Night Visibility, Add	0.08	
32 17 23 13-0046	LF Double 6" Wide Solid Lines, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Striping	1.99	
	Note: Includes yellow or white.		
	For Up To 5,000 LF, Add	0.40	
	For >25,000 LF, Deduct	-0.30	
	For 30 mils Thick, Deduct	-0.37	
	For 45 mils Thick, Add	0.19	
	For Broken Line On One Side, Deduct	-0.56	
	For Double Broken Line, Deduct	-1.11	
	For Enhanced Wet-Night Visibility, Add	0.12	
32 17 23 13-0047	SF Solid Area, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	8.20	
	Note: Includes yellow or white.		
	For 30 mils Thick, Deduct	-0.37	
	For 45 mils Thick, Add	0.19	
	For Enhanced Wet-Night Visibility, Add	0.12	
32 17 23 13-0048	EA 6" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	5.54	
	For Up To 10, Add	0.69	
	For >50 To 100, Deduct	-0.35	
	For >100 To 200, Deduct	-0.46	
	For >200, Deduct	-0.92	
	For 30 mils Thick, Deduct	-0.24	
	For 45 mils Thick, Add	0.12	
	For Enhanced Wet-Night Visibility, Add	0.08	
32 17 23 13-0049	EA 12" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	10.33	
	For Up To 10, Add	1.04	
	For >50 To 100, Deduct	-0.52	
	For >100 To 200, Deduct	-0.69	
	For >200, Deduct	-1.39	
	For 30 mils Thick, Deduct	-0.85	
	For 45 mils Thick, Add	0.42	
	For Enhanced Wet-Night Visibility, Add	0.28	
32 17 23 13-0050	EA 24" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	17.48	
	For Up To 10, Add	1.73	
	For >50 To 100, Deduct	-0.87	
	For >100 To 200, Deduct	-1.15	
	For >200, Deduct	-2.31	
	For 30 mils Thick, Deduct	-1.49	
	For 45 mils Thick, Add	0.74	
	For Enhanced Wet-Night Visibility, Add	0.49	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0051	EA		36" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	33.52	
			For Up To 10, Add	3.46	
			For >50 To 100, Deduct	-1.73	
			For >100 To 200, Deduct	-2.31	
			For >200, Deduct	-4.62	
			For 30 mils Thick, Deduct	-2.61	
			For 45 mils Thick, Add	1.31	
			For Enhanced Wet-Night Visibility, Add	0.86	
32 17 23 13-0052	EA		48" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	39.47	
			For Up To 10, Add	3.88	
			For >50 To 100, Deduct	-1.94	
			For >100 To 200, Deduct	-2.59	
			For >200, Deduct	-5.18	
			For 30 mils Thick, Deduct	-3.40	
			For 45 mils Thick, Add	1.70	
			For Enhanced Wet-Night Visibility, Add	1.12	
32 17 23 13-0053	EA		72" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	70.87	
			For Up To 10, Add	6.91	
			For >50 To 100, Deduct	-3.45	
			For >100 To 200, Deduct	-4.61	
			For >200, Deduct	-9.21	
			For 30 mils Thick, Deduct	-6.20	
			For 45 mils Thick, Add	3.10	
			For Enhanced Wet-Night Visibility, Add	2.05	
32 17 23 13-0054	EA		96" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	94.50	
			For Up To 10, Add	9.28	
			For >50 To 100, Deduct	-4.64	
			For >100 To 200, Deduct	-6.19	
			For >200, Deduct	-12.37	
			For 30 mils Thick, Deduct	-8.16	
			For 45 mils Thick, Add	4.08	
			For Enhanced Wet-Night Visibility, Add	2.69	
32 17 23 13-0055	EA		120" High, Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	149.51	
			For Up To 10, Add	11.50	
			For >50 To 100, Deduct	-5.75	
			For >100 To 200, Deduct	-7.67	
			For >200, Deduct	-15.33	
			For 30 mils Thick, Deduct	-18.21	
			For 45 mils Thick, Add	9.11	
			For Enhanced Wet-Night Visibility, Add	6.01	
32 17 23 13-0056	SF		Letter/Number, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking.....	9.29	
			For 30 mils Thick, Deduct	-0.59	
			For 45 mils Thick, Add	0.29	
			For Enhanced Wet-Night Visibility, Add	0.19	
32 17 23 13-0057	SF		Symbols, 40 Mil Thick, Painted Thermoplastic Reflective Pavement Marking	11.65	
			Note: Handicap, railroad, diamond, arrows, etc.		
			For 30 mils Thick, Deduct	-0.59	
			For 45 mils Thick, Add	0.29	
			For Enhanced Wet-Night Visibility, Add	0.19	
32 17 23 13-0058 Painted Reflective Pavement Marking (CALTRANS) (32 17 23 13)					
Note: 20 to 25 mil thickness, per LF of detail.					
32 17 23 13-0059	LF		CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.29	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0060	LF		CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.47	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0061	LF		CALTRANS Detail 4 Centerline	1.10	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0062	LF		CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.28	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0063	LF		CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.48	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0064	LF		CALTRANS Detail 7 Centerline	0.79	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
32 17 23 13-0065	LF		CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.29	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0066	LF		CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.47	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
32 17 23 13-0067	LF		CALTRANS Detail 10 Lanelines	1.10	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0068	LF		CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.28	
			For Up To 5,000 LF, Add	0.06	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0069	LF		CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.47	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0070 LF CALTRANS Detail 13 Lanelines 0.79 For Up To 5,000 LF, Add 0.16 For >25,000 LF, Deduct -0.12		
32 17 23 13-0071 LF CALTRANS Detail 14 Lanelines 0.79 For Up To 5,000 LF, Add 0.16 For >25,000 LF, Deduct -0.12		
32 17 23 13-0072 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping 0.47 For Up To 5,000 LF, Add 0.09 For >25,000 LF, Deduct -0.07		
32 17 23 13-0073 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping 0.38 For Up To 5,000 LF, Add 0.08 For >25,000 LF, Deduct -0.06 For Broken Line On One Side, Deduct -0.05 For Double Broken Line, Deduct -0.09		
32 17 23 13-0074 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping 1.11 For Up To 5,000 LF, Add 0.22 For >25,000 LF, Deduct -0.17		
32 17 23 13-0075 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines 3.17 For Up To 5,000 LF, Add 0.63 For >25,000 LF, Deduct -0.48		
32 17 23 13-0076 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping 0.38 For Up To 5,000 LF, Add 0.08 For >25,000 LF, Deduct -0.06 For Broken Line On One Side, Deduct -0.05 For Double Broken Line, Deduct -0.09		
32 17 23 13-0077 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping 0.93 For Up To 5,000 LF, Add 0.19 For >25,000 LF, Deduct -0.14		
32 17 23 13-0078 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines 2.67 For Up To 5,000 LF, Add 0.53 For >25,000 LF, Deduct -0.40		
32 17 23 13-0079 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping 0.45 For Up To 5,000 LF, Add 0.09 For >25,000 LF, Deduct -0.07 For Broken Line On One Side, Deduct -0.07 For Double Broken Line, Deduct -0.14		
32 17 23 13-0080 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping 1.18 For Up To 5,000 LF, Add 0.24 For >25,000 LF, Deduct -0.18		
32 17 23 13-0081 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines 3.78 For Up To 5,000 LF, Add 0.76 For >25,000 LF, Deduct -0.57		
32 17 23 13-0082 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping 0.36 For Up To 5,000 LF, Add 0.07 For >25,000 LF, Deduct -0.05		
32 17 23 13-0083 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping 0.54 For Up To 5,000 LF, Add 0.11 For >25,000 LF, Deduct -0.08		
32 17 23 13-0084 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping 0.72 For Up To 5,000 LF, Add 0.14 For >25,000 LF, Deduct -0.11		
32 17 23 13-0085 LF CALTRANS Detail 26 Left Edgelines 0.18 For Up To 5,000 LF, Add 0.04 For >25,000 LF, Deduct -0.03		
32 17 23 13-0086 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping 0.63 For Up To 5,000 LF, Add 0.13 For >25,000 LF, Deduct -0.09		
32 17 23 13-0087 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping 0.36 For Up To 5,000 LF, Add 0.07 For >25,000 LF, Deduct -0.05		
32 17 23 13-0088 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping 0.28 For Up To 5,000 LF, Add 0.06 For >25,000 LF, Deduct -0.04		
32 17 23 13-0089 LF CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping 0.89 For Up To 5,000 LF, Add 0.18 For >25,000 LF, Deduct -0.13 For Broken Line On One Side, Deduct -0.14 For Double Broken Line, Deduct -0.29		
32 17 23 13-0090 LF CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping 1.62 For Up To 5,000 LF, Add 0.32 For >25,000 LF, Deduct -0.24		
32 17 23 13-0091 LF CALTRANS Detail 30 Median Islands 7.56 For Up To 5,000 LF, Add 1.51 For >25,000 LF, Deduct -1.13		
32 17 23 13-0092 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping 0.75 For Up To 5,000 LF, Add 0.15 For >25,000 LF, Deduct -0.11 For Broken Line On One Side, Deduct -0.09 For Double Broken Line, Deduct -0.18		
32 17 23 13-0093 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping 1.66 For Up To 5,000 LF, Add 0.33 For >25,000 LF, Deduct -0.25		
32 17 23 13-0094 LF CALTRANS Detail 33 Two-Way Left Turn Lanes 5.18 For Up To 5,000 LF, Add 1.04 For >25,000 LF, Deduct -0.78		



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0095	LF		CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping.....	0.93	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.14	
32 17 23 13-0096	LF		CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.38	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0097	LF		CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping.....	1.12	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0098	LF		CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.38	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0099	LF		CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	1.85	
			For Up To 5,000 LF, Add	0.37	
			For >25,000 LF, Deduct	-0.28	
32 17 23 13-0100	LF		CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping	1.19	
			For Up To 5,000 LF, Add	0.24	
			For >25,000 LF, Deduct	-0.18	
32 17 23 13-0101	LF		CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	1.27	
			For Up To 5,000 LF, Add	0.25	
			For >25,000 LF, Deduct	-0.19	
32 17 23 13-0102	LF		CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	1.18	
			For Up To 5,000 LF, Add	0.24	
			For >25,000 LF, Deduct	-0.18	
32 17 23 13-0103	LF		CALTRANS Detail 37A Lane Drop At Exit Ramps.....	2.53	
			For Up To 5,000 LF, Add	0.51	
			For >25,000 LF, Deduct	-0.38	
32 17 23 13-0104	LF		CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping.....	1.18	
			For Up To 5,000 LF, Add	0.24	
			For >25,000 LF, Deduct	-0.18	
32 17 23 13-0105	LF		CALTRANS Detail 37C Lane Drop At Intersections.....	2.53	
			For Up To 5,000 LF, Add	0.51	
			For >25,000 LF, Deduct	-0.38	
32 17 23 13-0106	LF		CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	1.09	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.16	
32 17 23 13-0107	LF		CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping.....	0.72	
			For Up To 5,000 LF, Add	0.14	
			For >25,000 LF, Deduct	-0.11	
32 17 23 13-0108	LF		CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping.....	1.45	
			For Up To 5,000 LF, Add	0.29	
			For >25,000 LF, Deduct	-0.22	
32 17 23 13-0109	LF		CALTRANS Detail 38C Channelizing Line	3.78	
			For Up To 5,000 LF, Add	0.76	
			For >25,000 LF, Deduct	-0.57	
32 17 23 13-0110	LF		CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping.....	0.43	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0111	LF		CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.35	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
32 17 23 13-0112	LF		CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.27	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0113	LF		CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.82	
			For Up To 5,000 LF, Add	0.36	
			For >25,000 LF, Deduct	-0.27	
32 17 23 13-0114	LF		CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.27	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0115	LF		CALTRANS Detail 41A Center Line Extensions Through Intersections.....	1.82	
			For Up To 5,000 LF, Add	0.36	
			For >25,000 LF, Deduct	-0.27	
32 17 23 13-0116	EA		CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	128.26	
			For <10, Add	16.81	
			For >50 To 100, Deduct	-8.41	
			For >100 To 200, Deduct	-11.21	
			For >200, Deduct	-22.41	
32 17 23 13-0117	EA		CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	225.02	
			For <10, Add	29.42	
			For >50 To 100, Deduct	-14.71	
			For >100 To 200, Deduct	-19.61	
			For >200, Deduct	-39.22	
32 17 23 13-0118	EA		CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	282.39	
			For <10, Add	36.98	
			For >50 To 100, Deduct	-18.49	
			For >100 To 200, Deduct	-24.66	
			For >200, Deduct	-49.31	
32 17 23 13-0119	EA		CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	410.65	
			For <10, Add	53.79	
			For >50 To 100, Deduct	-26.90	
			For >100 To 200, Deduct	-35.86	
			For >200, Deduct	-71.72	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0120	EA		CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	538.90	
			For <10, Add	70.60	
			For >50 To 100, Deduct	-35.30	
			For >100 To 200, Deduct	-47.07	
			For >200, Deduct	-94.14	
32 17 23 13-0121	EA		CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking.....	379.16	
			For <10, Add	49.59	
			For >50 To 100, Deduct	-24.80	
			For >100 To 200, Deduct	-33.06	
			For >200, Deduct	-66.12	
32 17 23 13-0122	EA		CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking.....	661.56	
			For <10, Add	86.57	
			For >50 To 100, Deduct	-43.29	
			For >100 To 200, Deduct	-57.72	
			For >200, Deduct	-115.43	
32 17 23 13-0123	EA		CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	135.01	
			For <10, Add	17.65	
			For >50 To 100, Deduct	-8.83	
			For >100 To 200, Deduct	-11.77	
			For >200, Deduct	-23.53	
32 17 23 13-0124	EA		CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	295.91	
			For <10, Add	38.66	
			For >50 To 100, Deduct	-19.33	
			For >100 To 200, Deduct	-25.78	
			For >200, Deduct	-51.55	
32 17 23 13-0125	EA		CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	379.16	
			For <10, Add	49.59	
			For >50 To 100, Deduct	-24.80	
			For >100 To 200, Deduct	-33.06	
			For >200, Deduct	-66.12	
32 17 23 13-0126	EA		CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking.....	244.35	
			For <10, Add	31.94	
			For >50 To 100, Deduct	-15.97	
			For >100 To 200, Deduct	-21.29	
			For >200, Deduct	-42.59	
32 17 23 13-0127	EA		CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking	321.79	
			For <10, Add	42.03	
			For >50 To 100, Deduct	-21.01	
			For >100 To 200, Deduct	-28.02	
			For >200, Deduct	-56.03	
32 17 23 13-0128	EA		CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking	64.13	
			For <10, Add	8.41	
			For >50 To 100, Deduct	-4.20	
			For >100 To 200, Deduct	-5.60	
			For >200, Deduct	-11.21	
32 17 23 13-0129	EA		CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	613.26	
			Note: Excludes variable width transverse lines.		
			For <10, Add	79.85	
			For >50 To 100, Deduct	-39.92	
			For >100 To 200, Deduct	-53.23	
			For >200, Deduct	-106.47	
32 17 23 13-0130	SF		CALTRANS Solid Area, Painted Reflective Pavement Marking.....	7.99	
32 17 23 13-0131	EA		CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking	59.75	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	6.05	
			For >50 To 100, Deduct	-3.03	
			For >100 To 200, Deduct	-4.04	
			For >200, Deduct	-8.07	
32 17 23 13-0132	EA		CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	63.28	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	6.39	
			For >50 To 100, Deduct	-3.19	
			For >100 To 200, Deduct	-4.26	
			For >200, Deduct	-8.52	
32 17 23 13-0133	EA		CALTRANS Diamond Symbol, Painted Reflective Pavement Marking	102.37	
			For <10, Add	13.45	
			For >50 To 100, Deduct	-6.72	
			For >100 To 200, Deduct	-8.97	
			For >200, Deduct	-17.93	
32 17 23 13-0134	EA		CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	208.14	
			For <10, Add	27.23	
			For >50 To 100, Deduct	-13.62	
			For >100 To 200, Deduct	-18.16	
			For >200, Deduct	-36.31	
32 17 23 13-0135	EA		CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking	44.81	
			Note: Approximate overall dimensions: 4' width x 8' height.		
			For <10, Add	6.39	
			For >50 To 100, Deduct	-3.19	
			For >100 To 200, Deduct	-4.26	
			For >200, Deduct	-8.52	
32 17 23 13-0136	SF		CALTRANS Letter/Number, Painted Reflective Pavement Marking	8.10	
32 17 23 13-0137	SF		CALTRANS Symbols, Painted Reflective Pavement Marking	9.01	
			Note: Handicap, railroad, diamond, arrows, etc.		



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
32 17 23 13-0138	Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)			
	Note: Includes primers. Per Coat.			
32 17 23 13-0139	Painted Pavement Marking For Parking Areas (32 17 23 13-0138)			
	Note: 15 mil thickness.			
32 17 23 13-0140	LF	Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.30	
32 17 23 13-0141	LF	Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.41	
32 17 23 13-0142	LF	Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.51	
32 17 23 13-0143	LF	Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.69	
32 17 23 13-0144	SF	Solid Area, Painted Pavement Marking For Parking Areas	6.92	
	Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.			
32 17 23 13-0145	EA	6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	4.91	
		For Up To 10, Add	0.67	
		For >50 To 100, Deduct	-0.34	
		For >100 To 200, Deduct	-0.45	
		For >200, Deduct	-0.90	
32 17 23 13-0146	EA	12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	8.27	
		For Up To 10, Add	1.01	
		For >50 To 100, Deduct	-0.50	
		For >100 To 200, Deduct	-0.67	
		For >200, Deduct	-1.34	
32 17 23 13-0147	EA	24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	13.93	
		For Up To 10, Add	1.68	
		For >50 To 100, Deduct	-0.84	
		For >100 To 200, Deduct	-1.12	
		For >200, Deduct	-2.24	
32 17 23 13-0148	EA	36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	26.07	
		For Up To 10, Add	3.19	
		For >50 To 100, Deduct	-1.60	
		For >100 To 200, Deduct	-2.13	
		For >200, Deduct	-4.26	
32 17 23 13-0149	EA	42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	34.63	
		For Up To 10, Add	4.37	
		For >50 To 100, Deduct	-2.19	
		For >100 To 200, Deduct	-2.91	
		For >200, Deduct	-5.83	
32 17 23 13-0150	EA	48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	42.07	
		For Up To 10, Add	5.38	
		For >50 To 100, Deduct	-2.69	
		For >100 To 200, Deduct	-3.59	
		For >200, Deduct	-7.17	
32 17 23 13-0151	EA	72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	56.17	
		For Up To 10, Add	6.72	
		For >50 To 100, Deduct	-3.36	
		For >100 To 200, Deduct	-4.48	
		For >200, Deduct	-8.97	
32 17 23 13-0152	EA	Through Lane Arrow, Painted Pavement Marking For Parking Areas	99.46	
		Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0153	EA	Turn Lane Arrow, Painted Pavement Marking For Parking Areas	113.43	
		Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0154	EA	Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	160.67	
		Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0155	EA	Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	163.89	
		Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0156	EA	Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	213.40	
		Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0157	EA	Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	40.87	
		Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
		For Blue Background With White Symbol, Add	29.90	
		For Blue Background With White Symbol And Border, Add	37.37	
32 17 23 13-0158	EA	Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas	59.47	
		Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
		For Blue Background With White Symbol, Add	60.78	
		For Blue Background With White Symbol And Border, Add	75.98	
32 17 23 13-0159	Painted Curbs (32 17 23 13)			
	Note: All colors.			
32 17 23 13-0160	LF	Reflective Painted Curb	3.78	
32 17 23 13-0161	LF	Reflective Painted Curb And Gutter.....	7.16	
32 17 23 13-0162	LF	Painted Curb.....	3.06	
32 17 23 13-0163	LF	Painted Curb And Gutter	6.53	
32 17 23 13-0164	Markings For Outdoor Play Areas, Courts (32 17 23 13)			
32 17 23 13-0165	LF	2" Wide Marking For Outdoor Play Areas	1.09	
32 17 23 13-0166	LF	3" Wide Marking For Outdoor Play Areas	1.24	
32 17 23 13-0167	LF	4" Wide Marking For Outdoor Play Areas	1.40	
32 17 23 13-0168	LF	6" Wide Marking For Outdoor Play Areas	1.64	
32 17 23 13-0169	EA	Layout And Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera).....	379.37	
32 17 23 23	Raised Pavement Markings (32 17 23)			

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 17 23 23-0001		Raised Pavement Markers (RPMs) (32 17 23 23)			
		Note: White, Red, Yellow/Amber, Green or Blue			
32 17 23 23-0002	EA	One-Way Reflective, Raised Pavement Marker (RPM)	8.29		2.82
		Note: Type G, H or R			
		For >100, Deduct	-0.83		
32 17 23 23-0003	EA	Two-Way Reflective, Raised Pavement Marker (RPM)	8.81		2.82
		Note: Type B, C, D, AC, RA or RR			
		For >100, Deduct	-0.88		
32 17 23 23-0004	EA	4" Diameter, Round Reflective, Raised Pavement Marker (RPM)	10.94		2.82
		For >100, Deduct	-1.09		
32 17 23 23-0005	EA	4" Diameter, Non-Reflective, Raised Pavement Marker (RPM)	7.61		2.82
		Note: Type A or AY			
		For >100, Deduct	-0.76		
32 17 23 23-0006		Snowplowable Pavement Markers (32 17 23 23)			
32 17 23 23-0007	EA	One-Way Reflective, Snowplowable Pavement Marker With Center Rail	81.55		34.36
		Note: Type G, H or R			
32 17 23 23-0008	EA	Two-Way Reflective, Snowplowable Pavement Marker With Center Rail	82.00		34.36
		Note: Type B, C, D, AC, RA or RR			
32 17 23 23-0009	EA	Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	23.82		
32 17 23 23-0010	EA	Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	30.00		
32 17 23 33		Plastic Pavement Markings (32 17 23)			
32 17 23 33-0001		Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33)			
		Note: Includes primers, adhesive and reflective glass beads. For broken line modifier quantity use total lane length.			
32 17 23 33-0002		Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)			
		Note: 90 mil thickness.			
32 17 23 33-0003	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	1.50		
		For Up To 5,000 LF, Add	0.30		
		For >25,000 LF, Deduct	-0.23		
		For Enhanced Wet-Night Visibility, Add	0.06		
		For 60 mils Thick, Deduct	-0.20		
		For 125 mils Thick, Add	0.26		
		For Broken Line (25% Solid), Deduct	-0.87		
32 17 23 33-0004	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.14		
		Note: Includes yellow or white.			
		For Up To 5,000 LF, Add	0.43		
		For >25,000 LF, Deduct	-0.32		
		For Enhanced Wet-Night Visibility, Add	0.08		
		For 60 mils Thick, Deduct	-0.30		
		For 125 mils Thick, Add	0.39		
		For Broken Line (25% Solid), Deduct	-1.30		
32 17 23 33-0005	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.84		
		Note: Includes yellow or white.			
		For Up To 5,000 LF, Add	0.57		
		For >25,000 LF, Deduct	-0.43		
		For Enhanced Wet-Night Visibility, Add	0.11		
		For 60 mils Thick, Deduct	-0.40		
		For 125 mils Thick, Add	0.52		
		For Broken Line (25% Solid), Deduct	-1.73		
32 17 23 33-0006	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	4.15		
		Note: Includes yellow or white.			
		For Up To 5,000 LF, Add	0.83		
		For >25,000 LF, Deduct	-0.62		
		For Enhanced Wet-Night Visibility, Add	0.16		
		For 60 mils Thick, Deduct	-0.61		
		For 125 mils Thick, Add	0.78		
		For Broken Line (25% Solid), Deduct	-2.60		
32 17 23 33-0007	LF	Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	2.82		
		Note: Includes yellow or white.			
		For Up To 5,000 LF, Add	0.56		
		For >25,000 LF, Deduct	-0.42		
		For Enhanced Wet-Night Visibility, Add	0.11		
		For 60 mils Thick, Deduct	-0.40		
		For 125 mils Thick, Add	0.52		
		For Broken Line On One Side, Deduct	-0.87		
		For Double Broken Line, Deduct	-1.73		
32 17 23 33-0008	LF	Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping	4.15		
		Note: Includes yellow or white.			
		For Up To 5,000 LF, Add	0.83		
		For >25,000 LF, Deduct	-0.62		
		For Enhanced Wet-Night Visibility, Add	0.16		
		For 60 mils Thick, Deduct	-0.61		
		For 125 mils Thick, Add	0.78		
		For Broken Line On One Side, Deduct	-1.30		
		For Double Broken Line, Deduct	-2.60		



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0009	SF		Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Includes yellow or white. For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	10.17 0.16 -0.60 0.78	
32 17 23 33-0010	EA		6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	6.76 0.76 -0.38 -0.50 -1.01 0.08 -0.30 0.39	
32 17 23 33-0011	EA		12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	13.86 1.14 -0.57 -0.76 -1.52 0.30 -1.09 1.40	
32 17 23 33-0012	EA		24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	23.58 1.90 -0.95 -1.27 -2.53 0.52 -1.91 2.46	
32 17 23 33-0013	EA		36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	44.63 3.82 -1.91 -2.54 -5.09 0.91 -3.36 4.32	
32 17 23 33-0014	EA		48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	53.42 4.27 -2.14 -2.85 -5.69 1.19 -4.37 5.61	
32 17 23 33-0015	EA		72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	96.24 7.60 -3.80 -5.07 -10.13 2.17 -7.98 10.26	
32 17 23 33-0016	EA		96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	128.00 10.20 -5.10 -6.80 -13.60 2.85 -10.50 13.50	
32 17 23 33-0017	EA		120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	218.14 12.64 -6.32 -8.43 -16.85 6.36 -23.43 30.12	
32 17 23 33-0018	SF		Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	11.94 0.21 -0.76 0.97	
32 17 23 33-0019	SY		Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Per SY of area. For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	35.77 0.37 -1.36 1.75	
32 17 23 33-0020	EA		Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	313.26 4.72 -17.38 22.35	
32 17 23 33-0021	EA		Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Enhanced Wet-Night Visibility, Add For 60 mils Thick, Deduct For 125 mils Thick, Add	929.87 14.36 -52.90 68.02	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0022 EA Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 181.64 Note: Approximate overall dimensions: 4' width x 8' height. For Enhanced Wet-Night Visibility, Add 6.50 For 60 mils Thick, Deduct -23.94 For 125 mils Thick, Add 30.78		
32 17 23 33-0023 EA Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 149.82 For Enhanced Wet-Night Visibility, Add 2.26 For 60 mils Thick, Deduct -8.31 For 125 mils Thick, Add 10.69		
32 17 23 33-0024 SF Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 13.62 Note: Handicap, railroad, diamond, arrows, etc. For Enhanced Wet-Night Visibility, Add 0.21 For 60 mils Thick, Deduct -0.76 For 125 mils Thick, Add 0.97		
32 17 23 33-0025 EA 10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 190.68 For Enhanced Wet-Night Visibility, Add 2.87 For 60 mils Thick, Deduct -10.58 For 125 mils Thick, Add 13.60		
32 17 23 33-0026 EA 18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 340.50 For Enhanced Wet-Night Visibility, Add 5.13 For 60 mils Thick, Deduct -18.89 For 125 mils Thick, Add 24.29		
32 17 23 33-0027 EA 24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 422.23 For Enhanced Wet-Night Visibility, Add 6.36 For 60 mils Thick, Deduct -23.43 For 125 mils Thick, Add 30.12		
32 17 23 33-0028 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 612.91 For Enhanced Wet-Night Visibility, Add 9.23 For 60 mils Thick, Deduct -34.01 For 125 mils Thick, Add 43.72		
32 17 23 33-0029 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 803.59 For Enhanced Wet-Night Visibility, Add 12.10 For 60 mils Thick, Deduct -44.59 For 125 mils Thick, Add 57.33		
32 17 23 33-0030 EA 24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 572.05 For Enhanced Wet-Night Visibility, Add 8.62 For 60 mils Thick, Deduct -31.74 For 125 mils Thick, Add 40.81		
32 17 23 33-0031 EA 24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 994.27 For Enhanced Wet-Night Visibility, Add 14.97 For 60 mils Thick, Deduct -55.17 For 125 mils Thick, Add 70.93		
32 17 23 33-0032 EA 8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 204.31 For Enhanced Wet-Night Visibility, Add 3.08 For 60 mils Thick, Deduct -11.34 For 125 mils Thick, Add 14.58		
32 17 23 33-0033 EA 24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 449.46 For Enhanced Wet-Night Visibility, Add 6.77 For 60 mils Thick, Deduct -24.94 For 125 mils Thick, Add 32.06		
32 17 23 33-0034 EA 18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 572.05 For Enhanced Wet-Night Visibility, Add 8.62 For 60 mils Thick, Deduct -31.74 For 125 mils Thick, Add 40.81		
32 17 23 33-0035 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 367.75 For Enhanced Wet-Night Visibility, Add 5.54 For 60 mils Thick, Deduct -20.41 For 125 mils Thick, Add 26.24		
32 17 23 33-0036 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 490.32 For Enhanced Wet-Night Visibility, Add 7.38 For 60 mils Thick, Deduct -27.21 For 125 mils Thick, Add 34.98		
32 17 23 33-0037 EA 5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking 95.35 For Enhanced Wet-Night Visibility, Add 1.44 For 60 mils Thick, Deduct -5.29 For 125 mils Thick, Add 6.80		
32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001) 3.53		
32 17 23 33-0039 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs 3.53 For Enhanced Wet-Night Visibility, Add 0.06 For 60 mils Thick, Deduct -0.20 For 125 mils Thick, Add 0.26		
32 17 23 33-0040 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs 4.43 For Enhanced Wet-Night Visibility, Add 0.08 For 60 mils Thick, Deduct -0.30 For 125 mils Thick, Add 0.39		
32 17 23 33-0041 LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs 5.46 For Enhanced Wet-Night Visibility, Add 0.11 For 60 mils Thick, Deduct -0.40 For 125 mils Thick, Add 0.52		
32 17 23 33-0042 LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs 7.83 For Enhanced Wet-Night Visibility, Add 0.16 For 60 mils Thick, Deduct -0.61 For 125 mils Thick, Add 0.78		



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 17 23 33-0043	LF Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs <i>For Enhanced Wet-Night Visibility, Add</i> <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i>	14.03	0.33	-1.21
			1.56	
32 17 23 33-0044	Preformed, Patterned Thermoplastic Reflective Pavement Marking Tape (32 17 23 33-0001) Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).			
32 17 23 33-0045	LF Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	3.19	0.64	-0.48
32 17 23 33-0046	LF Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	4.71	0.94	-0.71
32 17 23 33-0047	LF Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	6.26	1.25	-0.94
32 17 23 33-0048	LF Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For >25,000 LF, Deduct</i>	9.28	1.86	-1.39
32 17 23 33-0049	SF Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape Note: Includes yellow or white.	26.45		
32 17 23 33-0050	EA 6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	39.21	1.38	-0.69
			-0.92	-1.84
32 17 23 33-0051	EA 12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	68.78	1.75	-0.87
			-1.17	-2.33
32 17 23 33-0052	EA 24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	118.46	3.46	-1.73
			-2.31	-4.62
32 17 23 33-0053	EA 36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	172.25	6.93	-3.46
			-4.62	-9.23
32 17 23 33-0054	EA 48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	201.68	7.77	-3.88
			-5.18	-10.36
32 17 23 33-0055	EA 72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	260.61	13.82	-6.91
			-9.21	-18.42
32 17 23 33-0056	EA 96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	332.88	18.56	-9.28
			-12.37	-24.74
32 17 23 33-0057	EA 120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape <i>For <10, Add</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	417.08	23.00	-11.50
			-15.33	-30.66
32 17 23 33-0058	SF Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	27.35		
32 17 23 33-0059	SF Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape Note: Handicap, railroad, diamond symbol, etc.	29.03		
32 17 23 33-0060	Preformed, Thermoplastic Reflective Pavement Marking Tape (32 17 23 33-0001) Note: Heat applied. (Flint PreMark or HotTape Series).			
32 17 23 33-0061	EA Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 4' width x 8' height.	414.43		
32 17 23 33-0062	EA Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	1,098.83		
32 17 23 33-0063	EA Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 13' height.	220.64		
32 17 23 33-0064	EA 6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 2' width x 6' height.	186.98		
32 17 23 33-0065	EA 9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	361.12		
32 17 23 33-0066	EA 4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 4' height.	216.28		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0067 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 401.77 Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 33-0068 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 685.12 Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.		
32 17 23 33-0069 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 1,030.34 Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.		
32 17 23 33-0070 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 372.10 Note: Approximate overall dimensions: 1-2/3' width x 12' height.		
32 17 23 33-0071 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 412.75 Note: Approximate overall dimensions: 3' width x 12' height.		
32 17 23 33-0072 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 758.26 Note: Approximate overall dimensions: 5-1/2' width x 12' height.		
32 17 23 33-0073 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 697.45 Note: Approximate overall dimensions: 3-1/2' width x 20' height.		
32 17 23 33-0074 EA Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 700.81 Note: Approximate overall dimensions: 5-1/2' width x 20' height.		
32 17 23 33-0075 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape 961.92 Note: Approximate overall dimensions: 5-1/2' width x 18' height.		
32 17 23 33-0076 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0077 Thermoplastic Pavement Marking Symbols For Parking Areas (32 17 23 33-0076) Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0078 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 141.97 Note: White or blue symbol. Excludes striping.		
32 17 23 33-0079 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 528.80		
32 17 23 33-0080 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 300.40 Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0081 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 360.57 Note: White symbol on blue background. Excludes striping.		
32 17 23 33-0082 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas 377.85		
32 17 26 Tactile Warning Surfaces (32 17)		
32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26) Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface 71.48 Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.	10.95	
32 17 26 00-0003 SF Embedded, VPC Truncated Dome Detectable Warning Surface 57.26 Note: Also raised strips or directional bars. All colors.	10.95	
32 17 26 00-0004 EA 30.5" x 24" x 2" Precast Concrete Truncated Dome Panel Set In Thinset 417.99		
32 17 26 00-0005 LF 24" Wide Temporary Truncated Dome Strips, Screw Down Only Into Asphalt Or Concrete 102.40	21.88	
32 17 26 00-0006 Fiber-Reinforced, Polymer Modified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26) Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0007 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) 85.01 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.	10.95	
32 17 26 00-0008 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) 75.16 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish. All colors. 2' or 3' width.	10.95	
32 18 Athletic and Recreational Surfacing (32 18)		
32 18 16 Synthetic Resilient Surfacing (32 18)		
32 18 16 13 Playground Protective Surfacing (32 18 16)		
32 18 16 13-0001 Tile Playground Surface Material (32 18 16 13) Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002 SF 1-3/4" Thick, Resilient Rubber Tile Playground Surfacing 25.52 For Manufacturer's Standard Colors, Add 1.60 For Interlocking Tiles, Add 3.57 For Mechanically Fastened, Add 1.94 For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add 1.50	2.57	
32 18 16 13-0003 SF 2" Thick, Resilient Rubber Tile Playground Surfacing 26.00 For Manufacturer's Standard Colors, Add 1.60 For Interlocking Tiles, Add 3.57 For Mechanically Fastened, Add 2.03 For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add 1.50	2.72	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0004	SF	2-1/4" Thick, Resilient Rubber Tile Playground Surfacing	26.97	3.04	
		For Manufacturer's Standard Colors, Add	1.60		
		For Interlocking Tiles, Add	3.57		
		For Mechanically Fastened, Add	2.23		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0005	SF	2-1/2" Thick, Resilient Rubber Tile Playground Surfacing	27.93	3.36	
		For Manufacturer's Standard Colors, Add	1.60		
		For Interlocking Tiles, Add	3.57		
		For Mechanically Fastened, Add	2.42		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0006	SF	2-3/4" Thick, Resilient Rubber Tile Playground Surfacing	31.19	3.68	
		For Manufacturer's Standard Colors, Add	1.21		
		For Interlocking Tiles, Add	4.03		
		For Mechanically Fastened, Add	2.61		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0007	SF	3" Thick, Resilient Rubber Tile Playground Surfacing	32.25	4.03	
		For Manufacturer's Standard Colors, Add	1.21		
		For Interlocking Tiles, Add	4.03		
		For Mechanically Fastened, Add	2.82		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0008	SF	3-1/4" Thick, Resilient Rubber Tile Playground Surfacing	33.36	4.40	
		For Manufacturer's Standard Colors, Add	1.21		
		For Interlocking Tiles, Add	4.03		
		For Mechanically Fastened, Add	3.04		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0009	SF	3-1/2" Thick, Resilient Rubber Tile Playground Surfacing	36.71	4.71	
		For Manufacturer's Standard Colors, Add	0.67		
		For Interlocking Tiles, Add	4.50		
		For Mechanically Fastened, Add	3.25		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0010	SF	3-3/4" Thick, Resilient Rubber Tile Playground Surfacing	37.67	5.09	
		For Manufacturer's Standard Colors, Add	0.67		
		For Interlocking Tiles, Add	4.50		
		For Mechanically Fastened, Add	3.44		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0011	SF	4" Thick, Resilient Rubber Tile Playground Surfacing	38.73	5.38	
		For Manufacturer's Standard Colors, Add	0.67		
		For Interlocking Tiles, Add	4.50		
		For Mechanically Fastened, Add	3.65		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0012	SF	4-1/2" Thick, Resilient Rubber Tile Playground Surfacing	44.62	6.06	
		For Manufacturer's Standard Colors, Add	0.66		
		For Interlocking Tiles, Add	5.27		
		For Mechanically Fastened, Add	4.05		
		For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50		
32 18 16 13-0013		Loose Laid Playground Surface Material (32 18 16 13)			
		Note: Excludes sub base.			
32 18 16 13-0014	SF	3" Loose Laid Wood Fiber Safety Playground Surfacing	1.82	0.39	
32 18 16 13-0015	SF	6" Loose Laid Wood Fiber Safety Playground Surfacing	2.41	0.48	
32 18 16 13-0016	SF	9" Loose Laid Wood Fiber Safety Playground Surfacing	3.09	0.58	
32 18 16 13-0017	SF	12" Loose Laid Wood Fiber Safety Playground Surfacing	4.35	0.87	
32 18 16 13-0018	SF	3" Loose Laid Synthetic Fiber Safety Playground Surfacing	2.72	0.39	
32 18 16 13-0019	SF	6" Loose Laid Synthetic Fiber Safety Playground Surfacing	3.36	0.48	
32 18 16 13-0020	SF	9" Loose Laid Synthetic Fiber Safety Playground Surfacing	5.15	0.58	
32 18 16 13-0021	SF	12" Loose Laid Synthetic Fiber Safety Playground Surfacing	6.43	0.87	
32 18 16 13-0022	SF	8" FIBAR System Playground Surfacing	10.92	1.45	
		Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.			
32 18 16 13-0023	SF	12" FIBAR System Playground Surfacing	13.91	1.93	
		Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.			
32 18 16 13-0024		Poured In Place Playground Surfacing (32 18 16 13)			
		Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.			
32 18 16 13-0025	SF	1-3/4" Thick, Up To 4' Critical Fall Height, Poured In Place Rubber Playground Surfacing	20.24	2.97	
		For Up To 2,000, Add	4.02		
		For >2,000 To 3,000, Add	2.83		
		For >3,000 To 4,000, Add	1.93		
		For >4,000 To 5,000, Add	1.23		
		For >5,000 To 7,000, Add	0.51		
		For Aliphatic (Non-Yellowing) Binder, Add	4.41		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60		
32 18 16 13-0026	SF	2" Thick, 5' Critical Fall Height, Poured In Place Rubber Playground Surfacing	20.88	3.29	
		For Up To 2,000, Add	4.15		
		For >2,000 To 3,000, Add	2.92		
		For >3,000 To 4,000, Add	1.99		
		For >4,000 To 5,000, Add	1.27		
		For >5,000 To 7,000, Add	0.53		
		For Aliphatic (Non-Yellowing) Binder, Add	4.41		
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0027	SF	2-1/2" Thick, 6' Critical Fall Height, Poured In Place Rubber Playground Surfacing	22.54	3.76
		For Up To 2,000, Add	4.47	
		For >2,000 To 3,000, Add	3.16	
		For >3,000 To 4,000, Add	2.15	
		For >4,000 To 5,000, Add	1.37	
		For >5,000 To 7,000, Add	0.57	
		For Aliphatic (Non-Yellowing) Binder, Add	4.41	
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60	
32 18 16 13-0028	SF	3" Thick, 7' Critical Fall Height, Poured In Place Rubber Playground Surfacing	24.35	4.00
		For Up To 2,000, Add	4.83	
		For >2,000 To 3,000, Add	3.41	
		For >3,000 To 4,000, Add	2.32	
		For >4,000 To 5,000, Add	1.48	
		For >5,000 To 7,000, Add	0.62	
		For Aliphatic (Non-Yellowing) Binder, Add	4.41	
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60	
32 18 16 13-0029	SF	3-1/2" Thick, 8' Critical Fall Height, Poured In Place Rubber Playground Surfacing	26.14	4.21
		For Up To 2,000, Add	5.19	
		For >2,000 To 3,000, Add	3.66	
		For >3,000 To 4,000, Add	2.49	
		For >4,000 To 5,000, Add	1.59	
		For >5,000 To 7,000, Add	0.66	
		For Aliphatic (Non-Yellowing) Binder, Add	4.41	
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60	
32 18 16 13-0030	SF	4" Thick, 9' Critical Fall Height, Poured In Place Rubber Playground Surfacing	27.68	4.45
		For Up To 2,000, Add	5.49	
		For >2,000 To 3,000, Add	3.87	
		For >3,000 To 4,000, Add	2.64	
		For >4,000 To 5,000, Add	1.69	
		For >5,000 To 7,000, Add	0.70	
		For Aliphatic (Non-Yellowing) Binder, Add	4.41	
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60	
32 18 16 13-0031	SF	4-1/2" Thick, 10' Critical Fall Height, Poured In Place Rubber Playground Surfacing	29.48	4.70
		For Up To 2,000, Add	5.85	
		For >2,000 To 3,000, Add	4.13	
		For >3,000 To 4,000, Add	2.81	
		For >4,000 To 5,000, Add	1.80	
		For >5,000 To 7,000, Add	0.75	
		For Aliphatic (Non-Yellowing) Binder, Add	4.41	
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60	
32 18 16 13-0032	SF	5-1/2" Thick, 12' Critical Fall Height, Poured In Place Rubber Playground Surfacing	33.07	5.26
		For Up To 2,000, Add	6.56	
		For >2,000 To 3,000, Add	4.63	
		For >3,000 To 4,000, Add	3.15	
		For >4,000 To 5,000, Add	2.01	
		For >5,000 To 7,000, Add	0.84	
		For Aliphatic (Non-Yellowing) Binder, Add	4.41	
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60	
32 18 16 13-0033	SF	1/2" Top Only, Poured In Place Playground Surfacing	13.22	
		Note: Not used with new surfacing system tasks.		
		For Up To 2,000, Add	3.95	
		For >2,000 To 3,000, Add	2.56	
		For >3,000 To 4,000, Add	1.56	
		For >4,000 To 5,000, Add	0.94	
		For >5,000 To 7,000, Add	0.43	
		For Aliphatic (Non-Yellowing) Binder, Add	4.41	
		For Each 10% Of Area In Black Instead Of Color, Deduct	-0.60	
32 18 16 13-0034	EA	Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing	2,920.42	
32 18 16 13-0035		Synthetic Playground Turf (Sporturf) (32 18 16 13)		
		Note: Excludes base preparation, aggregate, or drainage.		
32 18 16 13-0036	SF	60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929)	10.83	
32 18 16 13-0037	SF	71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906)	9.52	
32 18 16 13-0038	SF	2" Foam Padding (Sporturf)	6.14	
32 18 16 13-0039	CF	Sand/Rubber Infill (Sporturf)	57.41	
32 18 23		Athletic Surfacing (32 18)		
32 18 23 13		Baseball Field Surfacing (32 18 23)		
32 18 23 13-0001		Clay Infield Maintenance (32 18 23 13)		
32 18 23 13-0002	MSF	Playing Field Maintenance (Clay - Nail Drag)	12.29	
32 18 23 13-0003	MSF	Playing Field Maintenance (Clay - Screen Drag)	12.29	
32 18 23 13-0004	CY	Playing Field Maintenance Of Clay	111.50	
32 18 23 13-0005	Ton	Medium Pro Baseball Infield Mix (Diamond Select 60/40 Pro Infield Mix)	187.89	
32 18 23 23		Field Sport Surfacing (32 18 23)		
32 18 23 23-0001		Turf Field Maintenance (32 18 23 23)		
32 18 23 23-0002	ACR	Turf Aeration (Minimum 6" Penetration)	165.39	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Athletic and Recreational Surfacing			32 18

32

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 18 23 23-0003	MSF	Top Dressing 1/8" - 1/4" Sand	15.73	
32 18 23 23-0004	BAG	Envirofill, 50 Lb. Bag	124.15	
32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)				
32 18 23 29-0001		Synthetic Field Sport Surfacing (32 18 23 29)		
32 18 23 29-0002		Synthetic Turf (AstroTurf) (32 18 23 29-0001)		
Note: Includes labor, equipment and material required to install the task.				
32 18 23 29-0003		Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) (32 18 23 29-0002)		
32 18 23 29-0004		38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) (32 18 23 29-0003)		
32 18 23 29-0005	SF	38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38)	8.52	
		For Ambient Rubber And Sand Infill, Add	0.10	
		For Cryo Rubber Infill, Add	0.26	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
		For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0006	EA	Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields	28,277.14	
32 18 23 29-0007	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields	23,048.54	
32 18 23 29-0008	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields	6,935.90	
Note: Per sport.				
32 18 23 29-0009	EA	End Zone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields	2,560.95	
Note: Per letter. Excludes outline.				
32 18 23 29-0010	EA	Colored End Zone For AstroTurf® GameDay Grass™ MT 38 Fields	2,454.24	
Note: Per end zone.				
32 18 23 29-0011	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields	21,341.24	
Note: Block letter.				
32 18 23 29-0012	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields	30,944.80	
Note: Graphic.				
32 18 23 29-0013		41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) (32 18 23 29-0003)		
32 18 23 29-0014	SF	41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41)	9.81	
		For Ambient Rubber And Sand Infill, Add	0.10	
		For Cryo Rubber Infill, Add	0.26	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
		For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0015	EA	Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields	28,810.85	
32 18 23 29-0016	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields	23,902.33	
32 18 23 29-0017	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields	7,469.48	
Note: Per sport.				
32 18 23 29-0018	EA	End Zone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields	2,774.38	
Note: Per letter. Excludes outline.				
32 18 23 29-0019	EA	Colored End Zone For AstroTurf® GameDay Grass™ MT 41 Fields	2,560.96	
Note: Per end zone.				
32 18 23 29-0020	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields	22,408.44	
Note: Block letter.				
32 18 23 29-0021	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields	32,492.23	
Note: Graphic.				
32 18 23 29-0022		45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) (32 18 23 29-0003)		
32 18 23 29-0023	SF	45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45)	10.00	
		For Ambient Rubber And Sand Infill, Add	0.10	
		For Cryo Rubber Infill, Add	0.26	
		For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.31	
		For Cryo Rubber And Sand Infill, Add	0.36	
32 18 23 29-0024	EA	Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields	29,344.38	
32 18 23 29-0025	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields	25,823.06	
32 18 23 29-0026	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields	8,003.01	
Note: Per sport.				
32 18 23 29-0027	EA	End Zone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields	2,987.79	
Note: Per letter. Excludes outline.				
32 18 23 29-0028	EA	Colored End Zone For AstroTurf® GameDay Grass™ MT 45 Fields	2,667.67	
Note: Per end zone.				
32 18 23 29-0029	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields	23,475.50	
Note: Block letter.				
32 18 23 29-0030	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields	34,039.48	
Note: Graphic.				
32 18 23 29-0031		Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) (32 18 23 29-0002)		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 18 23 29-0032	52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) ^(32 18 23 29-0031)			
32 18 23 29-0033	SF 52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52)	11.20		
	For Ambient Rubber And Sand Infill, Add	0.10		
	For Cryo Rubber Infill, Add	0.20		
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25		
	For Cryo Rubber And Sand Infill, Add	0.30		
32 18 23 29-0034	EA Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	30,411.27		
32 18 23 29-0035	EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	32,438.68		
32 18 23 29-0036	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields	9,070.03		
	Note: Per sport.			
32 18 23 29-0037	EA End Zone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields	3,414.60		
	Note: Per letter. Excludes outline.			
32 18 23 29-0038	EA Colored End Zone For AstroTurf® GameDay Grass™ 3DX 52 Fields	2,881.07		
	Note: Per end zone.			
32 18 23 29-0039	EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	25,609.49		
	Note: Block letter.			
32 18 23 29-0040	EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields	37,133.76		
	Note: Graphic.			
32 18 23 29-0041	60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) ^(32 18 23 29-0031)			
32 18 23 29-0042	SF 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60)	11.59		
	For Ambient Rubber And Sand Infill, Add	0.10		
	For Cryo Rubber Infill, Add	0.20		
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25		
	For Cryo Rubber And Sand Infill, Add	0.30		
32 18 23 29-0043	EA Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	30,944.80		
32 18 23 29-0044	EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	36,066.70		
32 18 23 29-0045	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields	9,603.56		
	Note: Per sport.			
32 18 23 29-0046	EA End Zone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields	3,628.01		
	Note: Per letter. Excludes outline.			
32 18 23 29-0047	EA Colored End Zone For AstroTurf® GameDay Grass™ 3DX 60 Fields	2,987.77		
	Note: Per end zone.			
32 18 23 29-0048	EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	26,676.55		
	Note: Block letter.			
32 18 23 29-0049	EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields	38,681.00		
	Note: Graphic.			
32 18 23 29-0050	52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) ^(32 18 23 29-0031)			
32 18 23 29-0051	SF 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52)	11.61		
	For Ambient Rubber And Sand Infill, Add	0.10		
	For Cryo Rubber Infill, Add	0.20		
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25		
	For Cryo Rubber And Sand Infill, Add	0.30		
32 18 23 29-0052	EA Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	31,478.33		
32 18 23 29-0053	EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	36,280.11		
32 18 23 29-0054	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields	10,137.09		
	Note: Per sport.			
32 18 23 29-0055	EA End Zone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields	3,841.42		
	Note: Per letter. Excludes outline.			
32 18 23 29-0056	EA Colored End Zone For AstroTurf® GameDay Grass™ 3D 52 Fields	3,094.48		
	Note: Per end zone.			
32 18 23 29-0057	EA Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	27,743.61		
	Note: Block letter.			
32 18 23 29-0058	EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields	40,228.24		
	Note: Graphic.			
32 18 23 29-0059	60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) ^(32 18 23 29-0031)			
32 18 23 29-0060	SF 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60)	11.84		
	For Ambient Rubber And Sand Infill, Add	0.10		
	For Cryo Rubber Infill, Add	0.20		
	For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add	0.25		
	For Cryo Rubber And Sand Infill, Add	0.30		
32 18 23 29-0061	EA Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	32,011.86		
32 18 23 29-0062	EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	38,627.64		
32 18 23 29-0063	EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields	10,670.62		
	Note: Per sport.			
32 18 23 29-0064	EA End Zone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields	4,268.25		
	Note: Per letter. Excludes outline.			
32 18 23 29-0065	EA Colored End Zone For AstroTurf® GameDay Grass™ 3D 60 Fields	3,201.19		
	Note: Per end zone.			



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0066	EA	Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	28,810.67		
Note: Block letter.					
32 18 23 29-0067	EA	Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	41,775.48		
Note: Graphic.					
32 18 23 29-0068		Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) (32 18 23 29-0002)			
32 18 23 29-0069		38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38) (32 18 23 29-0068)			
32 18 23 29-0070	SF	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38)	9.42		
For Ambient Rubber And Sand Infill, Add				0.10	
For Cryo Rubber Infill, Add				0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add				0.31	
For Cryo Rubber And Sand Infill, Add				0.36	
32 18 23 29-0071	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	27,210.24		
32 18 23 29-0072	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	20,060.89		
32 18 23 29-0073	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields	5,868.88		
Note: Per sport.					
32 18 23 29-0074	EA	End Zone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields	2,134.14		
Note: Per letter. Excludes outline.					
32 18 23 29-0075	EA	Colored End Zone For AstroTurf® GameDay Grass™ XPe 38 Fields.....	2,240.84		
Note: Per end zone.					
32 18 23 29-0076	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	19,207.23		
Note: Block letter.					
32 18 23 29-0077	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields	27,850.49		
Note: Graphic.					
32 18 23 29-0078		42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42) (32 18 23 29-0068)			
32 18 23 29-0079	SF	42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42)	8.26		
For Ambient Rubber And Sand Infill, Add				0.10	
For Cryo Rubber Infill, Add				0.26	
For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add				0.31	
For Cryo Rubber And Sand Infill, Add				0.36	
32 18 23 29-0080	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	27,743.61		
32 18 23 29-0081	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	21,341.24		
32 18 23 29-0082	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields	6,402.37		
Note: Per sport.					
32 18 23 29-0083	EA	End Zone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields	2,347.54		
Note: Per letter. Excludes outline.					
32 18 23 29-0084	EA	Colored End Zone For AstroTurf® GameDay Grass™ XPe 42 Fields.....	2,347.54		
Note: Per end zone.					
32 18 23 29-0085	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	20,274.18		
Note: Block letter.					
32 18 23 29-0086	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields	29,397.56		
Note: Graphic.					
32 18 23 29-0087		Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®) (32 18 23 29-0002)			
32 18 23 29-0088	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	18.68		
32 18 23 29-0089	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®)	16.72		
32 18 23 29-0090	EA	Football Markings For AstroTurf® PureGrass® Fields	52,652.55		
32 18 23 29-0091	EA	Baseball Markings For AstroTurf® PureGrass® Fields	62,553.03		
32 18 23 29-0092	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields	15,300.74		
Note: Per sport.					
32 18 23 29-0093	EA	End Zone Lettering For AstroTurf® PureGrass® Fields	5,850.28		
Note: Per letter. Excludes outline.					
32 18 23 29-0094	EA	Colored End Zone For AstroTurf® PureGrass® Fields.....	4,342.48		
Note: Per end zone.					
32 18 23 29-0095	EA	Simple Logo For AstroTurf® PureGrass® Fields.....	39,082.31		
Note: Block letter.					
32 18 23 29-0096	EA	Deluxe Logo For AstroTurf® PureGrass® Fields	57,377.78		
Note: Graphic.					
32 18 23 29-0097		Synthetic Turf (G9 Turf) (32 18 23 29-0001)			
Note: Includes labor, equipment and material required to install the task.					
32 18 23 29-0098	SF	2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf)	10.26		
Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.					
For >35,000, Deduct				-0.92	
32 18 23 29-0099	SF	2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf)	10.16		
Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.					
For >35,000, Deduct				-0.91	

32 Exterior Improvements
32 10 Bases, Ballasts, and Paving
32 18 Athletic and Recreational Surfacing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0100	SF		1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf).....	10.62	
			Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.		
32 18 23 29-0101	EA		Football Inlays For G9 Synthetic Turf.....	72,806.55	
			Note: Includes field grid, numbers, arrows, coach's box and kick off lines.		
32 18 23 29-0102	EA		Soccer Inlays For G9 Synthetic Turf.....	31,549.50	
32 18 23 29-0103	EA		Boys Lacrosse Inlays For G9 Synthetic Turf.....	31,549.50	
32 18 23 29-0104	EA		Girls Lacrosse Inlays For G9 Synthetic Turf.....	31,549.50	
32 18 23 29-0105	EA		Field Hockey Inlays For G9 Synthetic Turf.....	31,549.50	
32 18 23 29-0106	EA		End Zone Lettering For G9 Synthetic Turf.....	3,640.33	
			Note: Priced per letter. Includes single color outlining.		
32 18 23 29-0107	SF		Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf.....	3.41	
32 18 23 29-0108	SF		Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf.....	8.90	
32 18 23 29-0109	SF		Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf.....	2.54	
32 18 23 29-0110	SF		Sand Infill For G9 Synthetic Turf.....	1.28	
32 18 23 29-0111	SF		Acrylic Coated Sand Infill For G9 Synthetic Turf.....	2.10	
32 18 23 29-0112	EA		Gmax Compaction And Hardness Test For G9 Synthetic Turf.....	2,426.88	
			Note: Includes a comprehensive report.		
32 18 23 29-0113	EA		Safety Bridge Over Track For G9 Synthetic Turf.....	24,268.85	
32 18 23 29-0114	SF		Clean And Groom Synthetic Turf.....	0.80	
			Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.		
			For >10,000 To 30,000, Deduct.....	-0.32	
			For >30,000 To 60,000, Deduct.....	-0.56	
			For >60,000, Deduct.....	-0.61	
32 18 23 29-0115	SF		Rejuvenate Synthetic Turf And Reinstall Existing Infill.....	5.44	
			Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high-pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.		
32 18 23 29-0116	SF		Rejuvenate Synthetic Turf For Installation Of New Infill.....	6.05	
			Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high-pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.		
32 18 23 29-0117	SF		Drainage Layer For G9 Synthetic Turf.....	4.96	
			Note: Used for drainage over asphalt or on rooftops.		
32 18 23 29-0118	SF		15 mm, Shock Pad For G9 Synthetic Turf.....	3.05	
			Note: Used for additional Gmax for a stone base field.		
32 18 23 29-0119	EA		Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf.....	4,836.60	
			Note: Includes field inspection and report.		
32 18 23 29-0120	LF		Repair Inlay Lines Or Seams On G9 Synthetic Turf.....	13.30	
			Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.		
32 18 23 29-0121	LF		Nailer Used To Attach G9 Synthetic Turf.....	5.32	
32 18 23 29-0122	SF		Removal And Recycling Of Existing Field.....	3.75	
			Note: Includes removal, shipping and recycling of infill, fibers and backing.		
32 18 23 33			Running Track Surfacing (32 18 23)		
32 18 23 33-0001			Running Track Surfacing (32 18 23 33)		
32 18 23 33-0002	SY		2-1/2" Asphaltic Concrete Running Track Surfacing.....	34.26	
32 18 23 33-0003			Running Track Seal And Colored Surfaces (32 18 23 33)		
32 18 23 33-0004	SY		1 Seal Coat, Striping Of Track.....	21.18	
			Note: Includes certification.		
32 18 23 39			Synthetic Running Track Surfacing (32 18 23)		
32 18 23 39-0001			Synthetic Running Track Surfacing And Striping (32 18 23 39)		
			Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.		
32 18 23 39-0002	SY		Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing.....	85.33	7.47
			For >5,500, Deduct.....	-6.70	
			For Up To 4,000, Add.....	21.30	
32 18 23 39-0003	SY		Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing.....	107.21	7.47
			For >5,500, Deduct.....	-8.99	
			For Up To 4,000, Add.....	28.59	
			For Custom Color Upgrade, Add.....	7.76	
			For Aliphatic Top Coating, Add.....	14.70	
32 18 23 39-0004	SY		Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing.....	175.56	7.47
			For >5,500, Deduct.....	-8.24	
			For Up To 4,000, Add.....	48.05	
			For Custom Color Upgrade, Add.....	10.57	
			For Aliphatic Top Coating, Add.....	19.63	
32 18 23 39-0005	SY		Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing.....	228.14	7.47
			For >5,500, Deduct.....	-10.64	
			For Up To 4,000, Add.....	62.07	
			For Custom Color Upgrade, Add.....	13.83	
			For Aliphatic Top Coating, Add.....	20.22	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0006	SY		Latex Binder, Synthetic Running Track Surfacing..... <i>For >5,500, Deduct</i> <i>For Up To 4,000, Add</i>	78.01 -11.31 27.30	
32 18 23 39-0007	SY		Spray Retop Running Tracks..... <i>For Up To 4,000, Add</i> <i>For >5,500, Deduct</i>	68.52 23.98 -6.70	
32 18 23 39-0008	SY		Sandwich Retop Running Tracks..... <i>For Up To 4,000, Add</i> <i>For >5,500, Deduct</i>	132.64 46.42 -13.98	
32 18 23 53 Tennis Court Surfacing (32 18 23)					
32 18 23 53-0001			Tennis Court Surfacing (32 18 23 53) See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002	SY		Tennis Court Bituminous Pavement, 2-1/2" Thick	34.85	
32 18 23 53-0003 Tennis Court Markings (32 18 23 53)					
32 18 23 53-0004	EA		Paint Markings On Asphalt Tennis Court 2 Coats.....	633.79	
32 18 23 56 Natural Tennis Court Surfacing (32 18 23)					
32 18 23 56-0001	SY		Clay Tennis Court.....	47.94	
32 18 23 56-0002	SY		Tennis Court, Pulverized Natural Greenstone, Fast Dry..... Note: Includes 4" base.	53.27	
32 18 23 56-0003	SY		Tennis Court, Rubber-Cork Base Resilient Pavement.....	21.56	
32 18 23 56-0004	SY		Resurface Clay Tennis Court.....	14.19	
32 18 23 56-0005	SY		Resurface Tennis Court, Pulverized Natural Greenstone.....	12.09	
32 18 23 56-0006	SY		Resurface Tennis Court, Resilient Pavement.....	9.07	
32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)					
32 18 23 61-0001			100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0002			Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)		
32 18 23 61-0003	SY		100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	1.60	
32 18 23 61-0004	SY		Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat..... Note: For previously uncoated portland cement concrete. Applied with broom.	0.80	
32 18 23 61-0005	SY		Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat..... Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.	2.05	
32 18 23 61-0006	SY		Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat..... Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.	91.07	
32 18 23 61-0007 Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)					
			Note: Standard color includes dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	3.28	
			<i>For Pacific Blue, Add</i>	1.18	
			<i>For US Open Blue, Add</i>	1.83	
32 18 23 61-0009	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat..... Note: Includes ultra fine silica sand. Applied with rubber squeegee.	2.68	
			<i>For Pacific Blue, Add</i>	0.85	
			<i>For US Open Blue, Add</i>	1.31	
32 18 23 61-0010	SY		100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat..... Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.	2.34	
			<i>For Pacific Blue, Add</i>	0.66	
			<i>For US Open Blue, Add</i>	1.02	
32 18 23 61-0011	SY		Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat..... Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.	2.33	
			<i>For Pacific Blue, Add</i>	0.79	
			<i>For US Open Or Australian Open Blue, Add</i>	1.29	
			<i>For Pro Purple, Add</i>	2.22	
32 18 23 61-0012 Line Striping For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)					
32 18 23 61-0013	SY		Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®)..... Note: Textured or non-textured highly reflective line marking paint.	1.57	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 18 23 61-0014		Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®) (32 18 23 61-0001)		
32 18 23 61-0015	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat Note: Applied with rubber squeegee.	4.98	
32 18 23 61-0016	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat Note: Applied with rubber squeegee.	6.76	
32 18 23 61-0017	SY	Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat Note: Price per coat for third or additional coats. Applied with rubber squeegee.	5.83	
32 18 23 61-0018	SY	Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat Note: Applied with rubber squeegee.	4.39	
32 18 23 61-0019	SY	Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat Note: Price per coat for second or additional coats. Applied with rubber squeegee.	3.38	
32 18 23 61-0020		Resurface Athletic Court (32 18 23 61) Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0021	SY	Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster)	2.79	

32 30 Site Improvements (32)**32 31 Fences and Gates (32 30)****32 31 11 Gate Operators (32 31)**

32 31 11 00-0001		Gate Operators (32 31 11) Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002		Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0003		Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0004		Single Gate, Swing Gate Actuator (32 31 11 00-0003)		
32 31 11 00-0005	EA	Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	2,085.48	231.36
32 31 11 00-0006	EA	Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	2,788.68	231.36
		Note: Includes one primary operator with a 14' wide gate capacity.		
32 31 11 00-0007		Dual Gate, Swing Gate Actuator (32 31 11 00-0003)		
32 31 11 00-0008	EA	Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)	4,170.96	462.71
32 31 11 00-0009	EA	Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)	5,577.35	462.71
		Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.		
32 31 11 00-0010		Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0011		Single Gate, Swing Gate Operators (32 31 11 00-0010)		
32 31 11 00-0012	EA	400 Lb. Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050)	4,285.23	231.36
		Note: Includes one primary operator with a 10' wide and 400 Lb. gate capacity.		
32 31 11 00-0013	EA	500 Lb. Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100)	4,663.87	231.36
		Note: Includes one primary operator with a 14' wide and 500 Lb. gate capacity.		
32 31 11 00-0014	EA	700 Lb. Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	6,340.73	231.36
		Note: Includes one primary operator with an 18' wide and 700 Lb. gate capacity.		
		For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0015	EA	800 Lb. Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	7,188.18	231.36
		Note: Includes one primary operator with a 22' wide and 800 Lb. gate capacity.		
		For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0016		Dual Gate, Swing Gate Operators (32 31 11 00-0010)		
32 31 11 00-0017	EA	400 Lb. Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050)	7,578.77	462.71
		Note: Includes one primary and one secondary operator each with a 10' wide and 400 Lb. gate capacity.		
32 31 11 00-0018	EA	500 Lb. Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100)	8,336.06	462.71
		Note: Includes one primary and one secondary operator each with a 14' wide and 500 Lb. gate capacity.		
32 31 11 00-0019	EA	700 Lb. Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)	11,671.75	462.71
		Note: Includes one primary and one secondary operator each with an 18' wide and 700 Lb. gate capacity.		
		For 208/230/460 Volt AC, Add	322.50	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0020	EA	800 Lb. Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary and one secondary operator each with a 22' wide and 800 Lb. gate capacity. For 208/230/460 Volt AC, Add	13,528.91 322.50	462.71
32 31 11 00-0021		Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002) Note: Includes 20' of chain. See CSI section 32 31 11 00-0030 for additional chain over 20'.		
32 31 11 00-0022	EA	300 Lb. Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050)..... Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	1,955.88	231.36
32 31 11 00-0023	EA	1,000 Lb. Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100)..... Note: Includes operator, chain brackets, hardware and 20' of #41 chain.	2,727.13	277.63
32 31 11 00-0024	EA	1,500 Lb. Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150)..... Note: Includes operator, chain brackets, hardware and 20' of #40 chain.	3,360.59	277.63
32 31 11 00-0025	EA	3,000 Lb. Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210)..... Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	4,380.71	323.90
32 31 11 00-0026	EA	2,000 Lb. Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220)..... Note: Includes operator, chain brackets, hardware and 20' of #50 chain.	5,358.05	323.90
32 31 11 00-0027	EA	5,000 Lb. Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	7,296.69	370.17
32 31 11 00-0028	EA	5,000 Lb. Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	12,142.70	370.17
32 31 11 00-0029	EA	10,000 Lb. Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550)..... Note: Includes operator, chain brackets, hardware and 20' of #60 chain.	20,542.69	416.44
32 31 11 00-0030		Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0002)		
32 31 11 00-0031	EA	Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	683.61	
32 31 11 00-0032	EA	Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	1,329.35	
32 31 11 00-0033	EA	Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	906.31	
32 31 11 00-0034	EA	Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	980.83	
32 31 11 00-0035	EA	Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	872.64	
32 31 11 00-0036	EA	Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	611.20	
32 31 11 00-0037	LF	#40 Chain For Sliding Gate Operators.....	6.11	
32 31 11 00-0038	LF	#41 Chain For Sliding Gate Operators.....	6.38	
32 31 11 00-0039	LF	#50 Chain For Sliding Gate Operators.....	8.13	
32 31 11 00-0040	LF	#60 Chain For Sliding Gate Operators.....	12.48	
32 31 11 00-0041	EA	Exterior Keypad Gate Operator (Linear AK-11).....	761.53	162.61
32 31 11 00-0042		Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0043	EA	Up To 1,500 Lb. Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U)..... Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL). For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add For Plug-In Loop Detector Option (Liftmaster LOOPDETLM), Add For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add For 10 Watt Solar Panel (Liftmaster SP10W12V), Add For Each Additional 10' Chain, Add	2,875.87 191.03 136.74 67.34 270.67 40.54	283.53
32 31 13		Chain Link Fences and Gates (32 31)		
32 31 13 13		Chain Link Fences and Gates (32 31 13)		
32 31 13 13-0001		Post Holes (32 31 13 13) Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0081 for core drilling in concrete, 02 41 19 13-0219 for core drilling in asphalt.		
32 31 13 13-0002		Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.19	
32 31 13 13-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	11.46	
32 31 13 13-0005	VLF	3" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	13.58	
32 31 13 13-0006	VLF	4" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	15.27	
32 31 13 13-0007	VLF	6" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	16.66	
32 31 13 13-0008	VLF	8" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	18.33	
32 31 13 13-0009	VLF	10" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	20.37	
32 31 13 13-0010	VLF	12" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	22.91	
32 31 13 13-0011	VLF	18" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	26.19	
32 31 13 13-0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	30.56	
32 31 13 13-0013	VLF	30" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	36.66	
32 31 13 13-0014	VLF	36" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	45.83	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0015 Post Hole In Rock (32 31 13 13-0001)		
32 31 13 13-0016 CF Jackhammer Post Hole In Rock.....	77.70	
32 31 13 13-0017 CF Rock Drill Post Hole In Rock.....	21.24	
32 31 13 13-0018 Fill For Post Holes (32 31 13 13-0001)		
See CSI section 03 21 00 00-0000 for reinforcing steel.		
32 31 13 13-0019 Concrete Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole.....	6.29	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole.....	8.06	
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole.....	8.91	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole.....	10.28	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole.....	14.53	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole.....	19.40	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole.....	23.74	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole.....	27.70	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole.....	37.89	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole.....	47.14	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole.....	56.18	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole.....	65.57	
32 31 13 13-0032 Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	7.42	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole.....	9.54	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole.....	10.41	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole.....	11.76	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole.....	16.45	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole.....	21.95	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole.....	26.77	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole.....	31.09	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole.....	41.72	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole.....	51.13	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole.....	60.25	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole.....	69.62	
32 31 13 13-0045 Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	5.15	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	6.70	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole.....	7.01	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole.....	7.22	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole.....	9.64	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole.....	12.85	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole.....	15.43	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole.....	17.48	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole.....	21.30	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole.....	23.91	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole.....	26.22	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole.....	28.28	
32 31 13 13-0058 Fence Posts (32 31 13 13)		
Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059 Fence Posts (32 31 13 13-0058)		
32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059)		
Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length.....	22.91	3.58
For Each Top Rail Fitting, Add.....	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length.....	21.89	3.04
For Each Top Rail Fitting, Add.....	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length.....	20.65	2.52
For Each Top Rail Fitting, Add.....	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length.....	19.65	1.99
For Each Top Rail Fitting, Add.....	0.85	
32 31 13 13-0065 LF 1-7/8" Galvanized H-beam Post, 21' To 24' In Length.....	19.00	1.72
For Each Top Rail Fitting, Add.....	0.85	
32 31 13 13-0066 LF 1-7/8" Galvanized H-beam Post, >24' In Length.....	17.95	1.19
For Each Top Rail Fitting, Add.....	0.85	
32 31 13 13-0067 Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)		
Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0068	LF Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	15.68		3.32
	For Each Top Rail Fitting, Add	0.85		
	For Each Single Barbed Wire Arm, Add	1.90		
	For Each Double Barbed Wire Arm, Add	3.40		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.27		
	For Vinyl Coated, Add	5.44		
	For Powder Coated, Add	7.25		
	For Aluminum Coated, Add	11.33		
	For Schedule 20, Deduct	-1.81		
	For Schedule 80, Add	5.01		
32 31 13 13-0069	LF 7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	14.54		2.78
	For Each Top Rail Fitting, Add	0.85		
	For Each Single Barbed Wire Arm, Add	1.90		
	For Each Double Barbed Wire Arm, Add	3.40		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.24		
	For Vinyl Coated, Add	5.37		
	For Powder Coated, Add	7.16		
	For Aluminum Coated, Add	11.19		
	For Schedule 20, Deduct	-1.79		
	For Schedule 80, Add	4.86		
32 31 13 13-0070	LF 11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	13.36		2.25
	For Each Top Rail Fitting, Add	0.85		
	For Each Single Barbed Wire Arm, Add	1.90		
	For Each Double Barbed Wire Arm, Add	3.40		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.22		
	For Vinyl Coated, Add	5.33		
	For Powder Coated, Add	7.11		
	For Aluminum Coated, Add	11.11		
	For Schedule 20, Deduct	-1.78		
	For Schedule 80, Add	4.71		
32 31 13 13-0071	LF 16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	12.44		1.72
	For Each Top Rail Fitting, Add	0.85		
	For Each Single Barbed Wire Arm, Add	1.90		
	For Each Double Barbed Wire Arm, Add	3.40		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.22		
	For Vinyl Coated, Add	5.32		
	For Powder Coated, Add	7.09		
	For Aluminum Coated, Add	11.08		
	For Schedule 20, Deduct	-1.77		
	For Schedule 80, Add	4.61		
32 31 13 13-0072	LF 21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	11.84		1.46
	For Each Top Rail Fitting, Add	0.85		
	For Each Single Barbed Wire Arm, Add	1.90		
	For Each Double Barbed Wire Arm, Add	3.40		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.21		
	For Vinyl Coated, Add	5.31		
	For Powder Coated, Add	7.08		
	For Aluminum Coated, Add	11.06		
	For Schedule 20, Deduct	-1.77		
	For Schedule 80, Add	4.55		
32 31 13 13-0073	LF >24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	11.18		1.19
	For Each Top Rail Fitting, Add	0.85		
	For Each Single Barbed Wire Arm, Add	1.90		
	For Each Double Barbed Wire Arm, Add	3.40		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.21		
	For Vinyl Coated, Add	5.30		
	For Powder Coated, Add	7.07		
	For Aluminum Coated, Add	11.05		
	For Schedule 20, Deduct	-1.77		
	For Schedule 80, Add	4.48		
32 31 13 13-0074	Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)			
	Note: 2" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0075	LF 2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	17.94		3.45
	For Each Top Rail Fitting, Add	1.35		
	For Each Single Barbed Wire Arm, Add	2.65		
	For Each Double Barbed Wire Arm, Add	4.88		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.77		
	For Vinyl Coated, Add	6.65		
	For Powder Coated, Add	8.87		
	For Aluminum Coated, Add	13.86		
	For Schedule 20, Deduct	-2.22		
	For Schedule 80, Add	6.01		
32 31 13 13-0076	LF 2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	16.87		2.91
	For Each Top Rail Fitting, Add	1.35		
	For Each Single Barbed Wire Arm, Add	2.65		
	For Each Double Barbed Wire Arm, Add	4.88		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	2.74		
	For Vinyl Coated, Add	6.56		
	For Powder Coated, Add	8.75		
	For Aluminum Coated, Add	13.68		
	For Schedule 20, Deduct	-2.19		
	For Schedule 80, Add	5.84		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0077	LF		2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	15.60	2.39
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.72	
			For Vinyl Coated, Add	6.52	
			For Powder Coated, Add	8.70	
			For Aluminum Coated, Add	13.59	
			For Schedule 20, Deduct	-2.17	
			For Schedule 80, Add	5.69	
32 31 13 13-0078	LF		2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	14.62	1.85
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.71	
			For Vinyl Coated, Add	6.50	
			For Powder Coated, Add	8.66	
			For Aluminum Coated, Add	13.54	
			For Schedule 20, Deduct	-2.17	
			For Schedule 80, Add	5.58	
32 31 13 13-0079	LF		2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	13.96	1.59
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.70	
			For Vinyl Coated, Add	6.49	
			For Powder Coated, Add	8.65	
			For Aluminum Coated, Add	13.51	
			For Schedule 20, Deduct	-2.16	
			For Schedule 80, Add	5.50	
32 31 13 13-0080	LF		2" Outside Diameter Galvanized Steel Post, >24' In Length	13.37	1.32
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.70	
			For Vinyl Coated, Add	6.49	
			For Powder Coated, Add	8.65	
			For Aluminum Coated, Add	13.51	
			For Schedule 20, Deduct	-2.16	
			For Schedule 80, Add	5.44	
32 31 13 13-0081			Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)		
			Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082	LF		2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	21.89	3.71
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.67	
			For Vinyl Coated, Add	8.80	
			For Powder Coated, Add	11.73	
			For Aluminum Coated, Add	18.33	
			For Schedule 20, Deduct	-2.93	
			For Schedule 80, Add	7.76	
32 31 13 13-0083	LF		2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	20.70	3.18
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.62	
			For Vinyl Coated, Add	8.69	
			For Powder Coated, Add	11.59	
			For Aluminum Coated, Add	18.11	
			For Schedule 20, Deduct	-2.90	
			For Schedule 80, Add	7.58	
32 31 13 13-0084	LF		2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	19.38	2.52
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.60	
			For Vinyl Coated, Add	8.65	
			For Powder Coated, Add	11.53	
			For Aluminum Coated, Add	18.01	
			For Schedule 20, Deduct	-2.88	
			For Schedule 80, Add	7.41	
32 31 13 13-0085	LF		2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	18.34	1.99
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.59	
			For Vinyl Coated, Add	8.62	
			For Powder Coated, Add	11.50	
			For Aluminum Coated, Add	17.96	
			For Schedule 20, Deduct	-2.87	
			For Schedule 80, Add	7.29	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM DESCRIPTION		
32 31 13 13-0086	LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	17.67 1.35 2.65 4.88 3.59 8.61 11.48 17.94 -2.87 7.22	1.72
32 31 13 13-0087	LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	17.02 1.35 2.65 4.88 3.59 8.60 11.47 17.93 -2.87 7.15	1.32
32 31 13 13-0088	Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059) Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089	LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	30.11 1.85 3.85 7.05 5.54 13.30 17.73 27.70 -4.43 11.43	3.97
32 31 13 13-0090	LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	28.66 1.85 3.85 7.05 5.45 13.09 17.45 27.26 -4.36 11.15	3.45
32 31 13 13-0091	LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	27.16 1.85 3.85 7.05 5.41 12.98 17.31 27.05 -4.33 10.94	2.78
32 31 13 13-0092	LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	25.96 1.85 3.85 7.05 5.39 12.93 17.24 26.94 -4.31 10.79	2.25
32 31 13 13-0093	LF 3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	25.19 1.85 3.85 7.05 5.38 12.91 17.21 26.89 -4.30 10.69	1.85
32 31 13 13-0094	LF 3" Outside Diameter Galvanized Steel Post, >24' In Length..... For Each Top Rail Fitting, Add For Each Single Barbed Wire Arm, Add For Each Double Barbed Wire Arm, Add For SS40 (Hot-Dip Galvanized And Chromated), Add For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add For Schedule 20, Deduct For Schedule 80, Add	24.49 1.85 3.85 7.05 5.38 12.90 17.20 26.88 -4.30 10.62	1.46

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 31 13 13-0095	Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0059)				
	Note: 4" outside diameter, Schedule 40. Includes cap and accessories.				
32 31 13 13-0096	LF 4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	44.53		4.24	
	For Each Top Rail Fitting, Add	2.60			
	For Each Single Barbed Wire Arm, Add	5.10			
	For Each Double Barbed Wire Arm, Add	11.25			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	9.04			
	For Vinyl Coated, Add	21.70			
	For Powder Coated, Add	28.94			
	For Aluminum Coated, Add	45.21			
	For Schedule 20, Deduct	-7.23			
	For Schedule 80, Add	18.20			
32 31 13 13-0097	LF 4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	42.51		3.45	
	For Each Top Rail Fitting, Add	2.60			
	For Each Single Barbed Wire Arm, Add	5.10			
	For Each Double Barbed Wire Arm, Add	11.25			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	8.89			
	For Vinyl Coated, Add	21.32			
	For Powder Coated, Add	28.43			
	For Aluminum Coated, Add	44.43			
	For Schedule 20, Deduct	-7.11			
	For Schedule 80, Add	17.76			
32 31 13 13-0098	LF 4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	41.04		2.91	
	For Each Top Rail Fitting, Add	2.60			
	For Each Single Barbed Wire Arm, Add	5.10			
	For Each Double Barbed Wire Arm, Add	11.25			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	8.81			
	For Vinyl Coated, Add	21.14			
	For Powder Coated, Add	28.18			
	For Aluminum Coated, Add	44.04			
	For Schedule 20, Deduct	-7.05			
	For Schedule 80, Add	17.49			
32 31 13 13-0099	LF 4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	39.72		2.39	
	For Each Top Rail Fitting, Add	2.60			
	For Each Single Barbed Wire Arm, Add	5.10			
	For Each Double Barbed Wire Arm, Add	11.25			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	8.77			
	For Vinyl Coated, Add	21.04			
	For Powder Coated, Add	28.06			
	For Aluminum Coated, Add	43.84			
	For Schedule 20, Deduct	-7.01			
	For Schedule 80, Add	17.30			
32 31 13 13-0100	LF 4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	39.64		2.39	
	For Each Top Rail Fitting, Add	2.60			
	For Each Single Barbed Wire Arm, Add	5.10			
	For Each Double Barbed Wire Arm, Add	11.25			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	8.75			
	For Vinyl Coated, Add	20.99			
	For Powder Coated, Add	27.99			
	For Aluminum Coated, Add	43.74			
	For Schedule 20, Deduct	-7.00			
	For Schedule 80, Add	17.26			
32 31 13 13-0101	LF 4" Outside Diameter Galvanized Steel Post, >24' In Length	38.30		1.72	
	For Each Top Rail Fitting, Add	2.60			
	For Each Single Barbed Wire Arm, Add	5.10			
	For Each Double Barbed Wire Arm, Add	11.25			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	8.75			
	For Vinyl Coated, Add	20.99			
	For Powder Coated, Add	27.98			
	For Aluminum Coated, Add	43.73			
	For Schedule 20, Deduct	-7.00			
	For Schedule 80, Add	17.12			
32 31 13 13-0102	Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0059)				
	Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.				
32 31 13 13-0103	LF 6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	88.62		4.64	
	For Each Top Rail Fitting, Add	4.55			
	For Each Single Barbed Wire Arm, Add	7.15			
	For Each Double Barbed Wire Arm, Add	14.95			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	19.83			
	For Vinyl Coated, Add	47.60			
	For Powder Coated, Add	63.46			
	For Aluminum Coated, Add	99.16			
	For Schedule 20, Deduct	-15.87			
	For Schedule 80, Add	39.01			
32 31 13 13-0104	LF 6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	84.73		3.84	
	For Each Top Rail Fitting, Add	4.55			
	For Each Single Barbed Wire Arm, Add	7.15			
	For Each Double Barbed Wire Arm, Add	14.95			
	For SS40 (Hot-Dip Galvanized And Chromated), Add	19.24			
	For Vinyl Coated, Add	46.16			
	For Powder Coated, Add	61.55			
	For Aluminum Coated, Add	96.18			
	For Schedule 20, Deduct	-15.39			
	For Schedule 80, Add	37.71			



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 31 13 13-0105	LF 6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	82.21		3.18
	For Each Top Rail Fitting, Add	4.55		
	For Each Single Barbed Wire Arm, Add	7.15		
	For Each Double Barbed Wire Arm, Add	14.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	18.94		
	For Vinyl Coated, Add	45.45		
	For Powder Coated, Add	60.60		
	For Aluminum Coated, Add	94.69		
	For Schedule 20, Deduct	-15.15		
	For Schedule 80, Add	37.01		
32 31 13 13-0106	LF 6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	80.32		2.52
	For Each Top Rail Fitting, Add	4.55		
	For Each Single Barbed Wire Arm, Add	7.15		
	For Each Double Barbed Wire Arm, Add	14.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	18.79		
	For Vinyl Coated, Add	45.10		
	For Powder Coated, Add	60.13		
	For Aluminum Coated, Add	93.95		
	For Schedule 20, Deduct	-15.03		
	For Schedule 80, Add	36.59		
32 31 13 13-0107	LF 6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	79.27		2.25
	For Each Top Rail Fitting, Add	4.55		
	For Each Single Barbed Wire Arm, Add	7.15		
	For Each Double Barbed Wire Arm, Add	14.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	18.72		
	For Vinyl Coated, Add	44.92		
	For Powder Coated, Add	59.89		
	For Aluminum Coated, Add	93.58		
	For Schedule 20, Deduct	-14.97		
	For Schedule 80, Add	36.37		
32 31 13 13-0108	LF 6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	78.48		1.85
	For Each Top Rail Fitting, Add	4.55		
	For Each Single Barbed Wire Arm, Add	7.15		
	For Each Double Barbed Wire Arm, Add	14.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	18.70		
	For Vinyl Coated, Add	44.88		
	For Powder Coated, Add	59.84		
	For Aluminum Coated, Add	93.50		
	For Schedule 20, Deduct	-14.96		
	For Schedule 80, Add	36.27		
32 31 13 13-0109	Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) (32 31 13 13-0059)			
	Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.			
32 31 13 13-0110	LF 8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	172.51		5.17
	For Each Top Rail Fitting, Add	7.50		
	For Each Single Barbed Wire Arm, Add	9.15		
	For Each Double Barbed Wire Arm, Add	18.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	40.55		
	For Vinyl Coated, Add	97.31		
	For Powder Coated, Add	129.75		
	For Aluminum Coated, Add	202.74		
	For Schedule 20, Deduct	-32.44		
	For Schedule 80, Add	78.88		
32 31 13 13-0111	LF 8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	166.09		4.37
	For Each Top Rail Fitting, Add	7.50		
	For Each Single Barbed Wire Arm, Add	9.15		
	For Each Double Barbed Wire Arm, Add	18.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	39.36		
	For Vinyl Coated, Add	94.47		
	For Powder Coated, Add	125.96		
	For Aluminum Coated, Add	196.81		
	For Schedule 20, Deduct	-31.49		
	For Schedule 80, Add	76.44		
32 31 13 13-0112	LF 8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	162.23		3.58
	For Each Top Rail Fitting, Add	7.50		
	For Each Single Barbed Wire Arm, Add	9.15		
	For Each Double Barbed Wire Arm, Add	18.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	38.77		
	For Vinyl Coated, Add	93.04		
	For Powder Coated, Add	124.06		
	For Aluminum Coated, Add	193.84		
	For Schedule 20, Deduct	-31.01		
	For Schedule 80, Add	75.15		
32 31 13 13-0113	LF 8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	159.57		2.78
	For Each Top Rail Fitting, Add	7.50		
	For Each Single Barbed Wire Arm, Add	9.15		
	For Each Double Barbed Wire Arm, Add	18.95		
	For SS40 (Hot-Dip Galvanized And Chromated), Add	38.47		
	For Vinyl Coated, Add	92.33		
	For Powder Coated, Add	123.11		
	For Aluminum Coated, Add	192.36		
	For Schedule 20, Deduct	-30.78		
	For Schedule 80, Add	74.44		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0114	LF	8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	158.19		2.39
		For Each Top Rail Fitting, Add	7.50		
		For Each Single Barbed Wire Arm, Add	9.15		
		For Each Double Barbed Wire Arm, Add	18.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	38.32		
		For Vinyl Coated, Add	91.97		
		For Powder Coated, Add	122.63		
		For Aluminum Coated, Add	191.61		
		For Schedule 20, Deduct	-30.66		
		For Schedule 80, Add	74.07		
32 31 13 13-0115	LF	8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length	157.26		1.99
		For Each Top Rail Fitting, Add	7.50		
		For Each Single Barbed Wire Arm, Add	9.15		
		For Each Double Barbed Wire Arm, Add	18.95		
		For SS40 (Hot-Dip Galvanized And Chromated), Add	38.29		
		For Vinyl Coated, Add	91.90		
		For Powder Coated, Add	122.54		
		For Aluminum Coated, Add	191.46		
		For Schedule 20, Deduct	-30.63		
		For Schedule 80, Add	73.93		
32 31 13 13-0116		Driven Post Supports (32 31 13 13)			
		Note: OZ-Post.			
32 31 13 13-0117		Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)			
32 31 13 13-0118	EA	26" Driven Post Support For 1-5/8" Round Chain Link Fence Post	80.98		
		Note: OZ-Post GB-700.			
32 31 13 13-0119	EA	26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post	80.98		
		Note: OZ-Post HB-700.			
32 31 13 13-0120	EA	26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post	83.01		
		Note: OZ-Post IS-600.			
32 31 13 13-0121	EA	32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post	99.88		
		Note: OZ-Post ISW-850.			
32 31 13 13-0122		Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)			
32 31 13 13-0123	EA	34" Driven Post Support For 1-3/4" Square Ornamental Fence Post	93.79		
		Note: OZ-Post C175-850.			
32 31 13 13-0124	EA	24" Driven Post Support For 2" Square Ornamental Fence Post	90.74		
		Note: OZ-Post I2-600.			
32 31 13 13-0125	EA	34" Driven Post Support For 2" Square Ornamental Fence Post	94.40		
		Note: OZ-Post I2-850.			
32 31 13 13-0126	EA	34" Driven Post Support For 2-1/2" Square Ornamental Fence Post	99.88		
		Note: OZ-Post I25-850.			
32 31 13 13-0127	EA	34" Driven Post Support For 3" Square Ornamental Fence Post	99.88		
		Note: OZ-Post I3-850.			
32 31 13 13-0128		Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)			
32 31 13 13-0129	EA	24" Driven Post Support For 3-1/2" Square Wooden Fence Post	91.81		
		Note: OZ-Post T4-600.			
32 31 13 13-0130	EA	34" Driven Post Support For 3-1/2" Square Wooden Fence Post	96.83		
		Note: OZ-Post T4-850.			
32 31 13 13-0131	EA	34" Driven Post Support For 3-3/4" Square Wooden Fence Post	103.95		
		Note: OZ-Post C4-850.			
32 31 13 13-0132	EA	34" Driven Post Support For 4" Square Wooden Fence Post	103.95		
		Note: OZ-Post P4-850.			
32 31 13 13-0133	EA	36" Driven Post Support For 4" x 6" Wooden Fence Post	117.16		
		Note: OZ-Post T46-850.			
32 31 13 13-0134	EA	36" Driven Post Support For 6" Square Wooden Fence Post	126.50		
		Note: OZ-Post T6-850.			
32 31 13 13-0135		Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)			
32 31 13 13-0136	EA	24" Driven Post Support For 3-1/2" Square Vinyl Fence Post	91.81		
		Note: OZ-Post T4-600.			
32 31 13 13-0137	EA	34" Driven Post Support For 3-1/2" Square Vinyl Fence Post	96.83		
		Note: OZ-Post T4-850.			
32 31 13 13-0138	EA	34" Driven Post Support For 4" Square Vinyl Fence Post	103.95		
		Note: OZ-Post P4-850.			
32 31 13 13-0139	EA	34" Driven Post Support For 5" Square Vinyl Fence Post	105.57		
		Note: OZ-Post P4-850.			
32 31 13 13-0140		Chain Link Fence Assemblies (32 31 13 13)			



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
32 31 13 13-0141	Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140) Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0684 for barb wire attachments.			
32 31 13 13-0142	Galvanized (32 31 13 13-0141)			
32 31 13 13-0143	LF 3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	44.31		4.50
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.10		
	For 13 Gauge Fabric, Deduct	-9.26		
	For 11 Gauge Fabric, Deduct	-5.41		
	For 6 Gauge Fabric, Add	8.50		
	For 1" Mesh Fabric, Add	11.60		
	For 1-3/4" Mesh Fabric, Add	4.64		
	For 2-1/8" Mesh Fabric, Deduct	-2.32		
	For 2-3/8" Mesh Fabric, Deduct	-3.09		
	For Posts 8' On Centers, Add	2.43		
	For Posts 5' On Centers, Add	9.12		
	For 3/8" Non-Climbable Mesh, Add	32.98		
	For Up To 100, Add	8.41		
	For >100 To 250, Add	3.10		
	For >2,500 To 5,000, Deduct	-1.55		
	For >5,000, Deduct	-3.10		
32 31 13 13-0144	LF 3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	46.03		4.50
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.20		
	For 13 Gauge Fabric, Deduct	-9.77		
	For 11 Gauge Fabric, Deduct	-5.71		
	For 6 Gauge Fabric, Add	8.97		
	For 1" Mesh Fabric, Add	12.23		
	For 1-3/4" Mesh Fabric, Add	4.89		
	For 2-1/8" Mesh Fabric, Deduct	-2.45		
	For 2-3/8" Mesh Fabric, Deduct	-3.26		
	For Posts 8' On Centers, Add	2.52		
	For Posts 5' On Centers, Add	9.45		
	For 3/8" Non-Climbable Mesh, Add	37.81		
	For Up To 100, Add	8.70		
	For >100 To 250, Add	3.20		
	For >2,500 To 5,000, Deduct	-1.60		
	For >5,000, Deduct	-3.20		
32 31 13 13-0145	LF 4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	47.57		4.50
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.29		
	For 13 Gauge Fabric, Deduct	-10.21		
	For 11 Gauge Fabric, Deduct	-5.96		
	For 6 Gauge Fabric, Add	9.37		
	For 1" Mesh Fabric, Add	12.78		
	For 1-3/4" Mesh Fabric, Add	5.11		
	For 2-1/8" Mesh Fabric, Deduct	-2.56		
	For 2-3/8" Mesh Fabric, Deduct	-3.41		
	For Posts 8' On Centers, Add	2.60		
	For Posts 5' On Centers, Add	9.75		
	For 3/8" Non-Climbable Mesh, Add	42.68		
	For Up To 100, Add	8.96		
	For >100 To 250, Add	3.29		
	For >2,500 To 5,000, Deduct	-1.64		
	For >5,000, Deduct	-3.29		
32 31 13 13-0146	LF 5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	51.13		4.50
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.50		
	For 13 Gauge Fabric, Deduct	-11.24		
	For 11 Gauge Fabric, Deduct	-6.57		
	For 6 Gauge Fabric, Add	10.32		
	For 1" Mesh Fabric, Add	14.07		
	For 1-3/4" Mesh Fabric, Add	5.63		
	For 2-1/8" Mesh Fabric, Deduct	-2.81		
	For 2-3/8" Mesh Fabric, Deduct	-3.75		
	For Posts 8' On Centers, Add	2.78		
	For Posts 5' On Centers, Add	10.42		
	For 3/8" Non-Climbable Mesh, Add	51.79		
	For Up To 100, Add	9.55		
	For >100 To 250, Add	3.50		
	For >2,500 To 5,000, Deduct	-1.75		
	For >5,000, Deduct	-3.50		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0147	LF	6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	55.36		4.50
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.77		
		For 13 Gauge Fabric, Deduct	-12.29		
		For 11 Gauge Fabric, Deduct	-7.18		
		For 6 Gauge Fabric, Add	11.28		
		For 1" Mesh Fabric, Add	15.38		
		For 1-3/4" Mesh Fabric, Add	6.15		
		For 2-1/8" Mesh Fabric, Deduct	-3.08		
		For 2-3/8" Mesh Fabric, Deduct	-4.10		
		For Posts 8' On Centers, Add	3.01		
		For Posts 5' On Centers, Add	11.26		
		For 3/8" Non-Climbable Mesh, Add	60.96		
		For Up To 100, Add	10.30		
		For >100 To 250, Add	3.77		
		For >2,500 To 5,000, Deduct	-1.88		
		For >5,000, Deduct	-3.77		
32 31 13 13-0148	LF	7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	57.40		6.75
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.91		
		For 13 Gauge Fabric, Deduct	-12.73		
		For 11 Gauge Fabric, Deduct	-7.44		
		For 6 Gauge Fabric, Add	11.69		
		For 1" Mesh Fabric, Add	15.94		
		For 1-3/4" Mesh Fabric, Add	6.38		
		For 2-1/8" Mesh Fabric, Deduct	-3.19		
		For 2-3/8" Mesh Fabric, Deduct	-4.25		
		For Posts 8' On Centers, Add	3.12		
		For Posts 5' On Centers, Add	11.68		
		For 3/8" Non-Climbable Mesh, Add	70.28		
		For Up To 100, Add	10.69		
		For >100 To 250, Add	3.91		
		For >2,500 To 5,000, Deduct	-1.95		
		For >5,000, Deduct	-3.91		
32 31 13 13-0149	LF	8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	65.18		7.88
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.36		
		For 13 Gauge Fabric, Deduct	-14.97		
		For 11 Gauge Fabric, Deduct	-8.74		
		For 6 Gauge Fabric, Add	13.74		
		For 1" Mesh Fabric, Add	18.74		
		For 1-3/4" Mesh Fabric, Add	7.49		
		For 2-1/8" Mesh Fabric, Deduct	-3.75		
		For 2-3/8" Mesh Fabric, Deduct	-5.00		
		For Posts 8' On Centers, Add	3.52		
		For Posts 5' On Centers, Add	13.17		
		For 3/8" Non-Climbable Mesh, Add	79.69		
		For Up To 100, Add	11.99		
		For >100 To 250, Add	4.36		
		For >2,500 To 5,000, Deduct	-2.18		
		For >5,000, Deduct	-4.36		
32 31 13 13-0150	LF	9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	69.47		10.14
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.63		
		For 13 Gauge Fabric, Deduct	-16.10		
		For 11 Gauge Fabric, Deduct	-9.40		
		For 6 Gauge Fabric, Add	14.78		
		For 1" Mesh Fabric, Add	20.15		
		For 1-3/4" Mesh Fabric, Add	8.06		
		For 2-1/8" Mesh Fabric, Deduct	-4.03		
		For 2-3/8" Mesh Fabric, Deduct	-5.37		
		For Posts 8' On Centers, Add	3.75		
		For Posts 5' On Centers, Add	14.01		
		For 3/8" Non-Climbable Mesh, Add	87.87		
		For Up To 100, Add	12.74		
		For >100 To 250, Add	4.63		
		For >2,500 To 5,000, Deduct	-2.32		
		For >5,000, Deduct	-4.63		
32 31 13 13-0151	LF	10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	73.78		11.26
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.90		
		For 13 Gauge Fabric, Deduct	-17.23		
		For 11 Gauge Fabric, Deduct	-10.06		
		For 6 Gauge Fabric, Add	15.81		
		For 1" Mesh Fabric, Add	21.56		
		For 1-3/4" Mesh Fabric, Add	8.63		
		For 2-1/8" Mesh Fabric, Deduct	-4.31		
		For 2-3/8" Mesh Fabric, Deduct	-5.75		
		For Posts 8' On Centers, Add	3.98		
		For Posts 5' On Centers, Add	14.85		
		For 3/8" Non-Climbable Mesh, Add	96.34		
		For Up To 100, Add	13.49		
		For >100 To 250, Add	4.90		
		For >2,500 To 5,000, Deduct	-2.45		
		For >5,000, Deduct	-4.90		



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
32 31 13 13-0152	LF 12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	81.90		13.51
	For Each Additional Foot >12, Add	4.37		
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	5.41		
	For 13 Gauge Fabric, Deduct	-19.34		
	For 11 Gauge Fabric, Deduct	-11.30		
	For 6 Gauge Fabric, Add	17.76		
	For 1" Mesh Fabric, Add	24.21		
	For 1-3/4" Mesh Fabric, Add	9.68		
	For 2-1/8" Mesh Fabric, Deduct	-4.64		
	For 2-3/8" Mesh Fabric, Deduct	-6.46		
	For Posts 8' On Centers, Add	4.41		
	For Posts 5' On Centers, Add	16.45		
	For 3/8" Non-Climbable Mesh, Add	104.49		
	For Up To 100, Add	14.91		
	For >100 To 250, Add	5.41		
	For >2,500 To 5,000, Deduct	-2.70		
	For >5,000, Deduct	-5.41		
32 31 13 13-0153	Vinyl Coated (32 31 13 13-0141)			
32 31 13 13-0154	LF 4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	49.21		4.50
	For Powder Coated Framework (Posts, Rails, Hardware), Add	4.65		
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.37		
	For 13 Gauge Fabric, Deduct	-10.78		
	For 11 Gauge Fabric, Deduct	-6.30		
	For 6 Gauge Fabric, Add	9.89		
	For 1" Mesh Fabric, Add	13.49		
	For 1-3/4" Mesh Fabric, Add	5.40		
	For 2-1/8" Mesh Fabric, Deduct	-2.70		
	For 2-3/8" Mesh Fabric, Deduct	-3.60		
	For Posts 8' On Centers, Add	2.68		
	For Posts 5' On Centers, Add	10.04		
	For 3/8" Non-Climbable Mesh, Add	47.82		
	For Up To 100, Add	9.20		
	For >100 To 250, Add	3.37		
	For >2,500 To 5,000, Deduct	-1.69		
	For >5,000, Deduct	-3.37		
32 31 13 13-0155	LF 5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	53.20		4.50
	For Powder Coated Framework (Posts, Rails, Hardware), Add	5.16		
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.60		
	For 13 Gauge Fabric, Deduct	-11.96		
	For 11 Gauge Fabric, Deduct	-6.99		
	For 6 Gauge Fabric, Add	10.98		
	For 1" Mesh Fabric, Add	14.97		
	For 1-3/4" Mesh Fabric, Add	5.99		
	For 2-1/8" Mesh Fabric, Deduct	-2.99		
	For 2-3/8" Mesh Fabric, Deduct	-3.99		
	For Posts 8' On Centers, Add	2.89		
	For Posts 5' On Centers, Add	10.80		
	For 3/8" Non-Climbable Mesh, Add	58.21		
	For Up To 100, Add	9.86		
	For >100 To 250, Add	3.60		
	For >2,500 To 5,000, Deduct	-1.80		
	For >5,000, Deduct	-3.60		
32 31 13 13-0156	LF 6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	59.57		4.50
	For Powder Coated Framework (Posts, Rails, Hardware), Add	5.94		
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.98		
	For 13 Gauge Fabric, Deduct	-13.75		
	For 11 Gauge Fabric, Deduct	-8.03		
	For 6 Gauge Fabric, Add	12.62		
	For 1" Mesh Fabric, Add	17.21		
	For 1-3/4" Mesh Fabric, Add	6.89		
	For 2-1/8" Mesh Fabric, Deduct	-3.44		
	For 2-3/8" Mesh Fabric, Deduct	-4.59		
	For Posts 8' On Centers, Add	3.22		
	For Posts 5' On Centers, Add	12.02		
	For 3/8" Non-Climbable Mesh, Add	68.66		
	For Up To 100, Add	10.94		
	For >100 To 250, Add	3.98		
	For >2,500 To 5,000, Deduct	-1.99		
	For >5,000, Deduct	-3.98		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR

CSI UOM DESCRIPTION

TOTAL DIRECT

UNIT COST

DEMOLITION

UNIT COST

32 31 13 13-0157	LF	7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	62.29	6.75
		For Powder Coated Framework (Posts, Rails, Hardware), Add	6.23	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.15	
		For 13 Gauge Fabric, Deduct	-14.43	
		For 11 Gauge Fabric, Deduct	-8.43	
		For 6 Gauge Fabric, Add	13.25	
		For 1" Mesh Fabric, Add	18.07	
		For 1-3/4" Mesh Fabric, Add	7.23	
		For 2-1/8" Mesh Fabric, Deduct	-3.61	
		For 2-3/8" Mesh Fabric, Deduct	-4.82	
		For Posts 8' On Centers, Add	3.36	
		For Posts 5' On Centers, Add	12.56	
		For 3/8" Non-Climbable Mesh, Add	79.27	
		For Up To 100, Add	11.42	
		For >100 To 250, Add	4.15	
		For >2,500 To 5,000, Deduct	-2.08	
		For >5,000, Deduct	-4.15	
32 31 13 13-0158	LF	8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	70.87	7.88
		For Powder Coated Framework (Posts, Rails, Hardware), Add	7.31	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.65	
		For 13 Gauge Fabric, Deduct	-16.94	
		For 11 Gauge Fabric, Deduct	-9.90	
		For 6 Gauge Fabric, Add	15.55	
		For 1" Mesh Fabric, Add	21.21	
		For 1-3/4" Mesh Fabric, Add	8.48	
		For 2-1/8" Mesh Fabric, Deduct	-4.24	
		For 2-3/8" Mesh Fabric, Deduct	-5.66	
		For Posts 8' On Centers, Add	3.81	
		For Posts 5' On Centers, Add	14.19	
		For 3/8" Non-Climbable Mesh, Add	89.96	
		For Up To 100, Add	12.84	
		For >100 To 250, Add	4.65	
		For >2,500 To 5,000, Deduct	-2.32	
		For >5,000, Deduct	-4.65	
32 31 13 13-0159	LF	9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	75.58	10.14
		For Powder Coated Framework (Posts, Rails, Hardware), Add	7.86	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	4.94	
		For 13 Gauge Fabric, Deduct	-18.22	
		For 11 Gauge Fabric, Deduct	-10.64	
		For 6 Gauge Fabric, Add	16.73	
		For 1" Mesh Fabric, Add	22.81	
		For 1-3/4" Mesh Fabric, Add	9.12	
		For 2-1/8" Mesh Fabric, Deduct	-4.56	
		For 2-3/8" Mesh Fabric, Deduct	-6.08	
		For Posts 8' On Centers, Add	4.06	
		For Posts 5' On Centers, Add	15.11	
		For 3/8" Non-Climbable Mesh, Add	99.30	
		For Up To 100, Add	13.65	
		For >100 To 250, Add	4.94	
		For >2,500 To 5,000, Deduct	-2.47	
		For >5,000, Deduct	-4.94	
32 31 13 13-0160	LF	10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	80.31	11.26
		For Powder Coated Framework (Posts, Rails, Hardware), Add	8.42	
		For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	5.23	
		For 13 Gauge Fabric, Deduct	-19.49	
		For 11 Gauge Fabric, Deduct	-11.39	
		For 6 Gauge Fabric, Add	17.90	
		For 1" Mesh Fabric, Add	24.40	
		For 1-3/4" Mesh Fabric, Add	9.76	
		For 2-1/8" Mesh Fabric, Deduct	-4.88	
		For 2-3/8" Mesh Fabric, Deduct	-6.51	
		For Posts 8' On Centers, Add	4.31	
		For Posts 5' On Centers, Add	16.03	
		For 3/8" Non-Climbable Mesh, Add	108.93	
		For Up To 100, Add	14.47	
		For >100 To 250, Add	5.23	
		For >2,500 To 5,000, Deduct	-2.61	
		For >5,000, Deduct	-5.23	



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
32 31 13 13-0161	LF 12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	87.64		13.51
	For Each Additional Foot >12, Add	4.62		
	For Powder Coated Framework (Posts, Rails, Hardware), Add	9.21		
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	5.69		
	For 13 Gauge Fabric, Deduct	-21.34		
	For 11 Gauge Fabric, Deduct	-12.46		
	For 6 Gauge Fabric, Add	19.59		
	For 1" Mesh Fabric, Add	26.71		
	For 1-3/4" Mesh Fabric, Add	10.68		
	For 2-1/8" Mesh Fabric, Deduct	-5.34		
	For 2-3/8" Mesh Fabric, Deduct	-7.12		
	For Posts 8' On Centers, Add	4.70		
	For Posts 5' On Centers, Add	17.48		
	For 3/8" Non-Climbable Mesh, Add	118.13		
	For Up To 100, Add	15.77		
	For >100 To 250, Add	5.69		
	For >2,500 To 5,000, Deduct	-2.85		
	For >5,000, Deduct	-5.69		
32 31 13 13-0162	Rails (32 31 13 13)			
	Note: Includes rail end fittings.			
32 31 13 13-0163	SS-20 Chain Link Fence Rails (32 31 13 13-0162)			
	Note: Includes tie wires.			
32 31 13 13-0164	LF 1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	8.06		1.46
	For SS15, Deduct	-0.50		
	For SS40, Add	1.26		
32 31 13 13-0165	LF 1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	9.75		1.46
	For SS40, Add	0.67		
	For Powder Coated, Add	1.34		
	For Aluminum Coated, Add	2.68		
32 31 13 13-0166	LF 1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	10.02		1.65
	For SS15, Deduct	-0.67		
	For SS40, Add	1.68		
32 31 13 13-0167	LF 1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	12.27		1.65
	For SS40, Add	0.90		
	For Powder Coated, Add	1.79		
	For Aluminum Coated, Add	3.58		
32 31 13 13-0168	LF 2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	11.74		1.85
	For SS40, Add	2.01		
32 31 13 13-0169	LF 2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	14.45		1.85
	For SS40, Add	1.07		
	For Powder Coated, Add	2.15		
	For Aluminum Coated, Add	4.30		
32 31 13 13-0170	SS-20 Middle/Bottom Rail With Tie Wire (1.66" Nominal) (32 31 13 13-0162)			
32 31 13 13-0171	LF 1-5/8" Galvanized Steel Fence Rail, Tie Wire And Fittings.....	10.56		1.46
	For SS40, Add	1.81		
32 31 13 13-0172	LF 1-5/8" Vinyl Coated Fence Rail, Tie Wires And Fittings.....	12.82		1.46
	For SS40, Add	0.95		
	For Powder Coated, Add	1.90		
	For Aluminum Coated, Add	3.80		
32 31 13 13-0173	Fabric (32 31 13 13)			
32 31 13 13-0174	Fabric, Galvanized Chain Link (32 31 13 13-0173)			
32 31 13 13-0175	LF 3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	12.65		2.65
	For 1-1/4" Mesh Fabric, Add	1.13		
	For 2 Oz Galvanized Or Zinc Coating, Add	1.01		
	For 13 Gauge Fabric, Deduct	-1.82		
	For 11 Gauge Fabric, Deduct	-1.01		
	For 6 Gauge Fabric, Add	3.23		
	For 1" Mesh Fabric, Add	3.03		
	For 1-1/4" Mesh Fabric, Add	2.02		
	For 1-3/4" Mesh Fabric, Add	1.21		
	For 2-1/8" Mesh Fabric, Deduct	-0.61		
	For 2-3/8" Mesh Fabric, Deduct	-0.61		
	For 3/8" Non-Climbable Mesh, Add	34.27		
32 31 13 13-0176	LF 3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.98		2.98
	For 1-1/4" Mesh Fabric, Add	1.32		
	For 2 Oz Galvanized Or Zinc Coating, Add	1.18		
	For 13 Gauge Fabric, Deduct	-2.12		
	For 11 Gauge Fabric, Deduct	-1.18		
	For 6 Gauge Fabric, Add	3.77		
	For 1" Mesh Fabric, Add	3.53		
	For 1-1/4" Mesh Fabric, Add	2.36		
	For 1-3/4" Mesh Fabric, Add	1.41		
	For 2-1/8" Mesh Fabric, Deduct	-0.71		
	For 2-3/8" Mesh Fabric, Deduct	-0.94		
	For 3/8" Non-Climbable Mesh, Add	39.20		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0177	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	15.12		3.32
		For 1-1/4" Mesh Fabric, Add	1.45		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.30		
		For 13 Gauge Fabric, Deduct	-2.33		
		For 11 Gauge Fabric, Deduct	-1.30		
		For 6 Gauge Fabric, Add	4.14		
		For 1" Mesh Fabric, Add	3.89		
		For 1-1/4" Mesh Fabric, Add	2.59		
		For 1-3/4" Mesh Fabric, Add	1.55		
		For 2-1/8" Mesh Fabric, Deduct	-0.78		
		For 2-3/8" Mesh Fabric, Deduct	-1.04		
		For 3/8" Non-Climbable Mesh, Add	44.18		
32 31 13 13-0178	LF	5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	17.06		3.97
		For 1-1/4" Mesh Fabric, Add	1.81		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.62		
		For 13 Gauge Fabric, Deduct	-2.91		
		For 11 Gauge Fabric, Deduct	-1.62		
		For 6 Gauge Fabric, Add	5.17		
		For 1" Mesh Fabric, Add	4.85		
		For 1-1/4" Mesh Fabric, Add	3.23		
		For 1-3/4" Mesh Fabric, Add	1.94		
		For 2-1/8" Mesh Fabric, Deduct	-0.97		
		For 2-3/8" Mesh Fabric, Deduct	-1.29		
		For 3/8" Non-Climbable Mesh, Add	53.38		
32 31 13 13-0179	LF	6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	19.12		4.64
		For 1-1/4" Mesh Fabric, Add	2.18		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.94		
		For 13 Gauge Fabric, Deduct	-3.50		
		For 11 Gauge Fabric, Deduct	-1.94		
		For 6 Gauge Fabric, Add	6.22		
		For 1" Mesh Fabric, Add	5.83		
		For 1-1/4" Mesh Fabric, Add	3.89		
		For 1-3/4" Mesh Fabric, Add	2.33		
		For 2-1/8" Mesh Fabric, Deduct	-1.17		
		For 2-3/8" Mesh Fabric, Deduct	-1.55		
		For 3/8" Non-Climbable Mesh, Add	62.67		
32 31 13 13-0180	LF	7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	21.28		5.30
		For 1-1/4" Mesh Fabric, Add	2.53		
		For 2 Oz Galvanized Or Zinc Coating, Add	2.26		
		For 13 Gauge Fabric, Deduct	-4.07		
		For 11 Gauge Fabric, Deduct	-2.26		
		For 6 Gauge Fabric, Add	7.24		
		For 1" Mesh Fabric, Add	6.79		
		For 1-1/4" Mesh Fabric, Add	4.53		
		For 1-3/4" Mesh Fabric, Add	2.72		
		For 2-1/8" Mesh Fabric, Deduct	-1.36		
		For 2-3/8" Mesh Fabric, Deduct	-1.81		
		For 3/8" Non-Climbable Mesh, Add	72.11		
32 31 13 13-0181	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	23.60		6.62
		For 1-1/4" Mesh Fabric, Add	2.90		
		For 2 Oz Galvanized Or Zinc Coating, Add	2.59		
		For 13 Gauge Fabric, Deduct	-4.66		
		For 11 Gauge Fabric, Deduct	-2.59		
		For 6 Gauge Fabric, Add	8.28		
		For 1" Mesh Fabric, Add	7.76		
		For 1-1/4" Mesh Fabric, Add	5.18		
		For 1-3/4" Mesh Fabric, Add	3.11		
		For 2-1/8" Mesh Fabric, Deduct	-1.55		
		For 2-3/8" Mesh Fabric, Deduct	-2.07		
		For 3/8" Non-Climbable Mesh, Add	81.69		
32 31 13 13-0182	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	28.06		7.29
		For 1-1/4" Mesh Fabric, Add	3.76		
		For 2 Oz Galvanized Or Zinc Coating, Add	3.36		
		For 13 Gauge Fabric, Deduct	-6.05		
		For 11 Gauge Fabric, Deduct	-3.36		
		For 6 Gauge Fabric, Add	10.75		
		For 1" Mesh Fabric, Add	10.08		
		For 1-1/4" Mesh Fabric, Add	6.72		
		For 1-3/4" Mesh Fabric, Add	4.03		
		For 2-1/8" Mesh Fabric, Deduct	-2.02		
		For 2-3/8" Mesh Fabric, Deduct	-2.69		
		For 3/8" Non-Climbable Mesh, Add	98.54		
32 31 13 13-0183	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	32.01		7.95
		For 1-1/4" Mesh Fabric, Add	4.51		
		For 2 Oz Galvanized Or Zinc Coating, Add	4.03		
		For 13 Gauge Fabric, Deduct	-7.25		
		For 11 Gauge Fabric, Deduct	-4.03		
		For 6 Gauge Fabric, Add	12.89		
		For 1" Mesh Fabric, Add	12.08		
		For 1-1/4" Mesh Fabric, Add	8.06		
		For 1-3/4" Mesh Fabric, Add	4.83		
		For 2-1/8" Mesh Fabric, Deduct	-2.42		
		For 2-3/8" Mesh Fabric, Deduct	-3.22		
		For 3/8" Non-Climbable Mesh, Add	106.88		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
32 31 13 13-0184	LF 14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....		35.84	9.27
	For 1-1/4" Mesh Fabric, Add		4.84	
	For 2 Oz Galvanized Or Zinc Coating, Add		4.33	
	For 13 Gauge Fabric, Deduct		-7.79	
	For 11 Gauge Fabric, Deduct		-4.33	
	For 6 Gauge Fabric, Add		13.84	
	For 1" Mesh Fabric, Add		12.98	
	For 1-1/4" Mesh Fabric, Add		8.65	
	For 1-3/4" Mesh Fabric, Add		5.19	
	For 2-1/8" Mesh Fabric, Deduct		-2.60	
	For 2-3/8" Mesh Fabric, Deduct		-3.46	
	For 3/8" Non-Climbable Mesh, Add		116.59	
32 31 13 13-0185	LF 16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....		39.69	10.60
	For 1-1/4" Mesh Fabric, Add		5.18	
	For 2 Oz Galvanized Or Zinc Coating, Add		4.63	
	For 13 Gauge Fabric, Deduct		-8.33	
	For 11 Gauge Fabric, Deduct		-4.63	
	For 6 Gauge Fabric, Add		14.80	
	For 1" Mesh Fabric, Add		13.88	
	For 1-1/4" Mesh Fabric, Add		9.25	
	For 1-3/4" Mesh Fabric, Add		5.55	
	For 2-1/8" Mesh Fabric, Deduct		-2.78	
	For 2-3/8" Mesh Fabric, Deduct		-3.70	
	For 3/8" Non-Climbable Mesh, Add		126.32	
32 31 13 13-0186	SF >16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....		2.48	0.62
	For 1-1/4" Mesh Fabric, Add		0.32	
	For 2 Oz Galvanized Or Zinc Coating, Add		0.29	
	For 13 Gauge Fabric, Deduct		-0.52	
	For 11 Gauge Fabric, Deduct		-0.29	
	For 6 Gauge Fabric, Add		0.93	
	For 1" Mesh Fabric, Add		0.87	
	For 1-1/4" Mesh Fabric, Add		0.58	
	For 1-3/4" Mesh Fabric, Add		0.35	
	For 2-1/8" Mesh Fabric, Deduct		-0.17	
	For 2-3/8" Mesh Fabric, Deduct		-0.23	
32 31 13 13-0187	Fabric, Vinyl Coated Chain Link (32 31 13 13-0173)			
32 31 13 13-0188	LF 4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh		16.77	2.65
	For 1-1/4" Mesh Fabric, Add		1.91	
	For 13 Gauge Fabric, Deduct		-3.07	
	For 11 Gauge Fabric, Deduct		-1.71	
	For 6 Gauge Fabric, Add		5.46	
	For 1" Mesh Fabric, Add		5.12	
	For 1-1/4" Mesh Fabric, Add		3.42	
	For 1-3/4" Mesh Fabric, Add		2.05	
	For 2-1/8" Mesh Fabric, Deduct		-1.02	
	For 2-3/8" Mesh Fabric, Deduct		-1.37	
	For 3/8" Non-Climbable Mesh, Add		49.32	
	For Aluminum Coated, Add		2.73	
32 31 13 13-0189	LF 5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh		19.13	3.97
	For 1-1/4" Mesh Fabric, Add		2.39	
	For 13 Gauge Fabric, Deduct		-3.84	
	For 11 Gauge Fabric, Deduct		-2.13	
	For 6 Gauge Fabric, Add		6.82	
	For 1" Mesh Fabric, Add		6.40	
	For 1-1/4" Mesh Fabric, Add		4.27	
	For 1-3/4" Mesh Fabric, Add		2.56	
	For 2-1/8" Mesh Fabric, Deduct		-1.28	
	For 2-3/8" Mesh Fabric, Deduct		-1.71	
	For 3/8" Non-Climbable Mesh, Add		59.80	
	For Aluminum Coated, Add		3.41	
32 31 13 13-0190	LF 6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh		23.32	4.64
	For 1-1/4" Mesh Fabric, Add		3.35	
	For 13 Gauge Fabric, Deduct		-5.39	
	For 11 Gauge Fabric, Deduct		-2.99	
	For 6 Gauge Fabric, Add		9.58	
	For 1" Mesh Fabric, Add		8.98	
	For 1-1/4" Mesh Fabric, Add		5.99	
	For 1-3/4" Mesh Fabric, Add		3.59	
	For 2-1/8" Mesh Fabric, Deduct		-1.80	
	For 2-3/8" Mesh Fabric, Deduct		-2.39	
	For 3/8" Non-Climbable Mesh, Add		70.37	
	For Aluminum Coated, Add		4.79	
32 31 13 13-0191	LF 7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh		26.16	5.30
	For 1-1/4" Mesh Fabric, Add		3.90	
	For 13 Gauge Fabric, Deduct		-6.27	
	For 11 Gauge Fabric, Deduct		-3.48	
	For 6 Gauge Fabric, Add		11.14	
	For 1" Mesh Fabric, Add		10.45	
	For 1-1/4" Mesh Fabric, Add		6.97	
	For 1-3/4" Mesh Fabric, Add		4.18	
	For 2-1/8" Mesh Fabric, Deduct		-2.09	
	For 2-3/8" Mesh Fabric, Deduct		-2.79	
	For 3/8" Non-Climbable Mesh, Add		81.10	
	For Aluminum Coated, Add		5.57	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0192	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	29.29		6.62
		For 1-1/4" Mesh Fabric, Add	4.49		
		For 13 Gauge Fabric, Deduct	-7.22		
		For 11 Gauge Fabric, Deduct	-4.01		
		For 6 Gauge Fabric, Add	12.83		
		For 1" Mesh Fabric, Add	12.03		
		For 1-1/4" Mesh Fabric, Add	8.02		
		For 1-3/4" Mesh Fabric, Add	4.81		
		For 2-1/8" Mesh Fabric, Deduct	-2.41		
		For 2-3/8" Mesh Fabric, Deduct	-3.21		
		For 3/8" Non-Climbable Mesh, Add	91.96		
		For Aluminum Coated, Add	6.42		
32 31 13 13-0193	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	34.59		7.29
		For 1-1/4" Mesh Fabric, Add	5.59		
		For 13 Gauge Fabric, Deduct	-8.99		
		For 11 Gauge Fabric, Deduct	-4.99		
		For 6 Gauge Fabric, Add	15.98		
		For 1" Mesh Fabric, Add	14.98		
		For 1-1/4" Mesh Fabric, Add	9.99		
		For 1-3/4" Mesh Fabric, Add	5.99		
		For 2-1/8" Mesh Fabric, Deduct	-3.00		
		For 2-3/8" Mesh Fabric, Deduct	-3.99		
		For 3/8" Non-Climbable Mesh, Add	111.13		
		For Aluminum Coated, Add	7.99		
32 31 13 13-0194	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	37.74		7.95
		For 1-1/4" Mesh Fabric, Add	6.12		
		For 13 Gauge Fabric, Deduct	-9.83		
		For 11 Gauge Fabric, Deduct	-5.46		
		For 6 Gauge Fabric, Add	17.47		
		For 1" Mesh Fabric, Add	16.38		
		For 1-1/4" Mesh Fabric, Add	10.92		
		For 1-3/4" Mesh Fabric, Add	6.55		
		For 2-1/8" Mesh Fabric, Deduct	-3.28		
		For 2-3/8" Mesh Fabric, Deduct	-4.37		
		For 3/8" Non-Climbable Mesh, Add	120.52		
		For Aluminum Coated, Add	8.74		
32 31 13 13-0195	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	42.58		9.27
		For 1-1/4" Mesh Fabric, Add	6.73		
		For 13 Gauge Fabric, Deduct	-10.82		
		For 11 Gauge Fabric, Deduct	-6.01		
		For 6 Gauge Fabric, Add	19.23		
		For 1" Mesh Fabric, Add	18.03		
		For 1-1/4" Mesh Fabric, Add	12.02		
		For 1-3/4" Mesh Fabric, Add	7.21		
		For 2-1/8" Mesh Fabric, Deduct	-3.61		
		For 2-3/8" Mesh Fabric, Deduct	-4.81		
		For 3/8" Non-Climbable Mesh, Add	131.30		
		For Aluminum Coated, Add	9.62		
32 31 13 13-0196	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	47.54		10.60
		For 1-1/4" Mesh Fabric, Add	7.38		
		For 13 Gauge Fabric, Deduct	-11.86		
		For 11 Gauge Fabric, Deduct	-6.59		
		For 6 Gauge Fabric, Add	21.08		
		For 1" Mesh Fabric, Add	19.76		
		For 1-1/4" Mesh Fabric, Add	13.18		
		For 1-3/4" Mesh Fabric, Add	7.91		
		For 2-1/8" Mesh Fabric, Deduct	-3.95		
		For 2-3/8" Mesh Fabric, Deduct	-5.27		
		For 3/8" Non-Climbable Mesh, Add	142.09		
		For Aluminum Coated, Add	10.54		
32 31 13 13-0197	SF	>16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	2.97		0.62
		For 1-1/4" Mesh Fabric, Add	0.46		
		For 13 Gauge Fabric, Deduct	-0.74		
		For 11 Gauge Fabric, Deduct	-0.41		
		For 6 Gauge Fabric, Add	1.32		
		For 1" Mesh Fabric, Add	1.24		
		For 1-1/4" Mesh Fabric, Add	0.83		
		For 1-3/4" Mesh Fabric, Add	0.50		
		For 2-1/8" Mesh Fabric, Deduct	-0.25		
		For 2-3/8" Mesh Fabric, Deduct	-0.33		
		For Aluminum Coated, Add	0.66		
32 31 13 13-0198		Fabric, Aluminized Steel Chain Link (32 31 13 13-0173)			
32 31 13 13-0199	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	12.32		2.65
		For 6 Gauge Fabric, Add	2.97		
		For 1" Mesh Fabric, Add	3.90		
32 31 13 13-0200	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	13.59		2.98
		For 6 Gauge Fabric, Add	3.46		
		For 1" Mesh Fabric, Add	4.54		
32 31 13 13-0201	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	14.88		3.32
		For 6 Gauge Fabric, Add	3.95		
		For 1" Mesh Fabric, Add	5.19		
32 31 13 13-0202	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	16.77		3.97
		For 6 Gauge Fabric, Add	4.94		
		For 1" Mesh Fabric, Add	6.48		



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0203	LF	6'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	18.73 5.90 7.75	4.64
32 31 13 13-0204	LF	7'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	20.86 6.90 9.06	5.30
32 31 13 13-0205	LF	8'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	23.11 7.89 10.35	6.62
32 31 13 13-0206	LF	10'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	26.94 9.86 12.94	7.29
32 31 13 13-0207	LF	12'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	30.68 11.82 15.52	7.95
32 31 13 13-0208 Fabric, All Aluminum Chain Link (32 31 13 13-0173)					
32 31 13 13-0209	LF	3'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	18.32 7.77 10.20	2.65
32 31 13 13-0210	LF	3'-6"	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	20.60 9.06 11.90	2.98
32 31 13 13-0211	LF	4'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	22.89 10.36 13.60	3.32
32 31 13 13-0212	LF	5'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	26.79 12.95 17.00	3.97
32 31 13 13-0213	LF	6'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	30.77 15.54 20.39	4.64
32 31 13 13-0214	LF	7'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	34.89 18.13 23.79	5.30
32 31 13 13-0215	LF	8'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	39.15 20.72 27.20	6.62
32 31 13 13-0216	LF	10'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	46.99 25.90 33.99	7.29
32 31 13 13-0217	LF	12'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	54.75 31.08 40.79	7.95
32 31 13 13-0218 Fence Inserts (32 31 13 13-0173) Note: For use with new or existing chain link fence, per lf of fence.					
32 31 13 13-0219 Vinyl Plastic Fence Inserts (32 31 13 13-0218) Note: Assorted colors.					
32 31 13 13-0220	LF	3'	High Fence, Vinyl Plastic Fence Insert.....	9.88	
32 31 13 13-0221	LF	3-1/2'	High Fence, Vinyl Plastic Fence Insert.....	11.27	
32 31 13 13-0222	LF	4'	High Fence, Vinyl Plastic Fence Insert.....	12.43	
32 31 13 13-0223	LF	5'	High Fence, Vinyl Plastic Fence Insert.....	15.58	
32 31 13 13-0224	LF	6'	High Fence, Vinyl Plastic Fence Insert.....	18.64	
32 31 13 13-0225	LF	7'	High Fence, Vinyl Plastic Fence Insert.....	21.80	
32 31 13 13-0226	LF	8'	High Fence, Vinyl Plastic Fence Insert.....	24.86	
32 31 13 13-0227	LF	10'	High Fence, Vinyl Plastic Fence Insert.....	30.29	
32 31 13 13-0228 Aluminum Fence Inserts (32 31 13 13-0218) Note: Assorted colors.					
32 31 13 13-0229	LF	3'	High Fence, Aluminum Fence Insert.....	33.15	
32 31 13 13-0230	LF	3-1/2'	High Fence, Aluminum Fence Insert.....	36.37	
32 31 13 13-0231	LF	4'	High Fence, Aluminum Fence Insert.....	41.32	
32 31 13 13-0232	LF	5'	High Fence, Aluminum Fence Insert.....	51.73	
32 31 13 13-0233	LF	6'	High Fence, Aluminum Fence Insert.....	62.05	
32 31 13 13-0234	LF	7'	High Fence, Aluminum Fence Insert.....	67.45	
32 31 13 13-0235	LF	8'	High Fence, Aluminum Fence Insert.....	82.72	
32 31 13 13-0236	LF	10'	High Fence, Aluminum Fence Insert.....	102.95	
32 31 13 13-0237 Redwood Fence Inserts (32 31 13 13-0218)					
32 31 13 13-0238	LF	4'	High Fence, Redwood Fence Insert.....	14.88	
32 31 13 13-0239	LF	5'	High Fence, Redwood Fence Insert.....	18.82	
32 31 13 13-0240	LF	6'	High Fence, Redwood Fence Insert.....	22.61	
32 31 13 13-0241	LF	7'	High Fence, Redwood Fence Insert.....	26.32	
32 31 13 13-0242	LF	8'	High Fence, Redwood Fence Insert.....	30.11	
32 31 13 13-0243 Diagonal Flexible Polyethylene Inserts (32 31 13 13-0218)					

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 13 13-0244 SF Diagonal Polyethylene Fence Weave 3.93

32 31 13 13-0245 Hedge Link Fence Inserts (32 31 13 13-0218)

32 31 13 13-0246 LF 3' High Fence, Hedge Link Fence Insert 21.19
32 31 13 13-0247 LF 3-1/2' High Fence, Hedge Link Fence Insert 24.14
32 31 13 13-0248 LF 4' High Fence, Hedge Link Fence Insert 28.25
32 31 13 13-0249 LF 5' High Fence, Hedge Link Fence Insert 34.85
32 31 13 13-0250 LF 6' High Fence, Hedge Link Fence Insert 39.82
32 31 13 13-0251 LF 7' High Fence, Hedge Link Fence Insert 50.37
32 31 13 13-0252 LF 8' High Fence, Hedge Link Fence Insert 57.20
32 31 13 13-0253 LF 10' High Fence, Hedge Link Fence Insert 68.39
32 31 13 13-0254 LF 12' High Fence, Hedge Link Fence Insert 78.46

32 31 13 13-0255 Fence Windscreen Fabric (32 31 13 13-0173)

Note: Includes plastic wire clips.

32 31 13 13-0256 SF Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY 1.32 0.58
For Sewn Boxed Vent (Each), Add 29.02
For Welded Boxed Vent (Each), Add 14.51
For 4' x 4' One Color Logo (Each), Add 604.58

32 31 13 13-0257 Non-Climbable Fabric, Galvanized Chain Link (32 31 13 13-0173)

32 31 13 13-0258 LF 3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh 34.27 2.65
For 11 Gauge, Deduct -5.13
For 10 Gauge, Deduct -2.05
For 7 Gauge, Add 3.08
For 6 Gauge, Add 7.18
For 1/2" Mesh Fabric, Deduct -1.28
For 5/8" Mesh Fabric, Deduct -2.82
For 3/4" Mesh Fabric, Deduct -4.11
32 31 13 13-0259 LF 3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh 39.20 2.98
For 11 Gauge, Deduct -5.99
For 10 Gauge, Deduct -2.39
For 7 Gauge, Add 3.59
For 6 Gauge, Add 8.38
For 1/2" Mesh Fabric, Deduct -1.50
For 5/8" Mesh Fabric, Deduct -3.29
For 3/4" Mesh Fabric, Deduct -4.79
32 31 13 13-0260 LF 4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh 44.18 3.32
For 11 Gauge, Deduct -6.85
For 10 Gauge, Deduct -2.74
For 7 Gauge, Add 4.11
For 6 Gauge, Add 9.59
For 1/2" Mesh Fabric, Deduct -1.71
For 5/8" Mesh Fabric, Deduct -3.77
For 3/4" Mesh Fabric, Deduct -5.48
32 31 13 13-0261 LF 5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh 53.38 3.97
For 11 Gauge, Deduct -8.56
For 10 Gauge, Deduct -3.42
For 7 Gauge, Add 5.13
For 6 Gauge, Add 11.98
For 1/2" Mesh Fabric, Deduct -2.14
For 5/8" Mesh Fabric, Deduct -4.71
For 3/4" Mesh Fabric, Deduct -6.84
32 31 13 13-0262 LF 6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh 62.67 4.64
For 11 Gauge, Deduct -10.26
For 10 Gauge, Deduct -4.11
For 7 Gauge, Add 6.16
For 6 Gauge, Add 14.37
For 1/2" Mesh Fabric, Deduct -2.57
For 5/8" Mesh Fabric, Deduct -5.65
For 3/4" Mesh Fabric, Deduct -8.21
32 31 13 13-0263 LF 7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh 72.11 5.30
For 11 Gauge, Deduct -11.98
For 10 Gauge, Deduct -4.79
For 7 Gauge, Add 7.19
For 6 Gauge, Add 16.77
For 1/2" Mesh Fabric, Deduct -2.99
For 5/8" Mesh Fabric, Deduct -6.59
For 3/4" Mesh Fabric, Deduct -9.58
32 31 13 13-0264 LF 8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh 81.69 6.62
For 11 Gauge, Deduct -13.69
For 10 Gauge, Deduct -5.48
For 7 Gauge, Add 8.21
For 6 Gauge, Add 19.16
For 1/2" Mesh Fabric, Deduct -3.42
For 5/8" Mesh Fabric, Deduct -7.53
For 3/4" Mesh Fabric, Deduct -10.95



Exterior Improvements			32
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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0265	LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	90.09	6.95
		For 11 Gauge, Deduct	-15.24	
		For 10 Gauge, Deduct	-6.09	
		For 7 Gauge, Add	9.14	
		For 6 Gauge, Add	21.33	
		For 1/2" Mesh Fabric, Deduct	-3.81	
		For 5/8" Mesh Fabric, Deduct	-8.38	
		For 3/4" Mesh Fabric, Deduct	-12.19	
32 31 13 13-0266	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	98.54	7.29
		For 11 Gauge, Deduct	-16.78	
		For 10 Gauge, Deduct	-6.71	
		For 7 Gauge, Add	10.07	
		For 6 Gauge, Add	23.50	
		For 1/2" Mesh Fabric, Deduct	-4.20	
		For 5/8" Mesh Fabric, Deduct	-9.23	
		For 3/4" Mesh Fabric, Deduct	-13.43	
32 31 13 13-0267	LF	12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh	106.88	7.95
		For 11 Gauge, Deduct	-18.20	
		For 10 Gauge, Deduct	-7.28	
		For 7 Gauge, Add	10.92	
		For 6 Gauge, Add	25.47	
		For 1/2" Mesh Fabric, Deduct	-4.55	
		For 5/8" Mesh Fabric, Deduct	-10.01	
		For 3/4" Mesh Fabric, Deduct	-14.56	
32 31 13 13-0268		Gates (32 31 13 13) Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0269		Galvanized Steel Without Barbed Wire (32 31 13 13-0268) Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0270		4' Fence Height (32 31 13 13-0269)		
32 31 13 13-0271	EA	3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	393.22	24.89
		For Gate With Single Barb Wire Arm, Add	34.70	
		For Gate With Double Barb Wire Arm, Add	50.47	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.14	
		For Aluminized Steel Gate And Post, Add	151.40	
		For Powder Coated Gate And Post, Add	82.01	
		For 1" Mesh Fabric, Add	137.21	
		For 1-1/4" Mesh Fabric, Add	88.32	
		For 1-3/4" Mesh Fabric, Add	54.88	
		For 2-1/8" Mesh Fabric, Deduct	-27.44	
32 31 13 13-0272	EA	4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	498.36	25.93
		For Gate With Single Barb Wire Arm, Add	46.26	
		For Gate With Double Barb Wire Arm, Add	67.29	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.86	
		For Aluminized Steel Gate And Post, Add	201.87	
		For Powder Coated Gate And Post, Add	109.35	
		For 1" Mesh Fabric, Add	182.94	
		For 1-1/4" Mesh Fabric, Add	117.76	
		For 1-3/4" Mesh Fabric, Add	73.18	
		For 2-1/8" Mesh Fabric, Deduct	-36.59	
32 31 13 13-0273	EA	5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	590.74	27.59
		For Gate With Single Barb Wire Arm, Add	55.85	
		For Gate With Double Barb Wire Arm, Add	81.24	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-95.20	
		For Aluminized Steel Gate And Post, Add	243.72	
		For Powder Coated Gate And Post, Add	132.02	
		For 1" Mesh Fabric, Add	220.87	
		For 1-1/4" Mesh Fabric, Add	142.17	
		For 1-3/4" Mesh Fabric, Add	88.35	
		For 2-1/8" Mesh Fabric, Deduct	-44.17	
32 31 13 13-0274	EA	6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	694.53	33.20
		For Gate With Single Barb Wire Arm, Add	65.44	
		For Gate With Double Barb Wire Arm, Add	95.19	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-111.55	
		For Aluminized Steel Gate And Post, Add	285.57	
		For Powder Coated Gate And Post, Add	154.68	
		For 1" Mesh Fabric, Add	258.80	
		For 1-1/4" Mesh Fabric, Add	166.58	
		For 1-3/4" Mesh Fabric, Add	103.52	
		For 2-1/8" Mesh Fabric, Deduct	-51.76	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0275	EA 7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	798.32		38.69
	For Gate With Single Barb Wire Arm, Add	75.03		
	For Gate With Double Barb Wire Arm, Add	109.14		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.90		
	For Aluminized Steel Gate And Post, Add	327.42		
	For Powder Coated Gate And Post, Add	177.35		
	For 1" Mesh Fabric, Add	296.73		
	For 1-1/4" Mesh Fabric, Add	191.00		
	For 1-3/4" Mesh Fabric, Add	118.69		
	For 2-1/8" Mesh Fabric, Deduct	-59.35		
32 31 13 13-0276	EA 8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	905.69		44.19
	For Gate With Single Barb Wire Arm, Add	85.02		
	For Gate With Double Barb Wire Arm, Add	123.67		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-144.92		
	For Aluminized Steel Gate And Post, Add	371.00		
	For Powder Coated Gate And Post, Add	200.96		
	For 1" Mesh Fabric, Add	336.22		
	For 1-1/4" Mesh Fabric, Add	216.41		
	For 1-3/4" Mesh Fabric, Add	134.49		
	For 2-1/8" Mesh Fabric, Deduct	-67.24		
32 31 13 13-0277	EA 9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	1,009.46		49.79
	For Gate With Single Barb Wire Arm, Add	94.61		
	For Gate With Double Barb Wire Arm, Add	137.62		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.27		
	For Aluminized Steel Gate And Post, Add	412.85		
	For Powder Coated Gate And Post, Add	223.63		
	For 1" Mesh Fabric, Add	374.14		
	For 1-1/4" Mesh Fabric, Add	240.83		
	For 1-3/4" Mesh Fabric, Add	149.66		
	For 2-1/8" Mesh Fabric, Deduct	-74.83		
32 31 13 13-0278	EA 10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	1,114.79		55.29
	For Gate With Single Barb Wire Arm, Add	104.37		
	For Gate With Double Barb Wire Arm, Add	151.81		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-177.91		
	For Aluminized Steel Gate And Post, Add	455.44		
	For Powder Coated Gate And Post, Add	246.70		
	For 1" Mesh Fabric, Add	412.74		
	For 1-1/4" Mesh Fabric, Add	265.67		
	For 1-3/4" Mesh Fabric, Add	165.10		
	For 2-1/8" Mesh Fabric, Deduct	-82.55		
32 31 13 13-0279	EA 10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,427.65		55.29
	For Gate With Single Barb Wire Arm, Add	138.78		
	For Gate With Double Barb Wire Arm, Add	201.87		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-236.57		
	For Aluminized Steel Gate And Post, Add	605.61		
	For Powder Coated Gate And Post, Add	328.04		
	For 1" Mesh Fabric, Add	548.83		
	For 1-1/4" Mesh Fabric, Add	353.27		
	For 1-3/4" Mesh Fabric, Add	219.53		
	For 2-1/8" Mesh Fabric, Deduct	-109.77		
32 31 13 13-0280	EA 12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,691.85		59.23
	For Gate With Single Barb Wire Arm, Add	166.54		
	For Gate With Double Barb Wire Arm, Add	242.24		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-283.88		
	For Aluminized Steel Gate And Post, Add	726.73		
	For Powder Coated Gate And Post, Add	393.65		
	For 1" Mesh Fabric, Add	658.60		
	For 1-1/4" Mesh Fabric, Add	423.93		
	For 1-3/4" Mesh Fabric, Add	263.44		
	For 2-1/8" Mesh Fabric, Deduct	-131.72		
32 31 13 13-0281	EA 14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,957.87		63.80
	For Gate With Single Barb Wire Arm, Add	194.30		
	For Gate With Double Barb Wire Arm, Add	282.62		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-331.19		
	For Aluminized Steel Gate And Post, Add	847.85		
	For Powder Coated Gate And Post, Add	459.25		
	For 1" Mesh Fabric, Add	768.37		
	For 1-1/4" Mesh Fabric, Add	494.58		
	For 1-3/4" Mesh Fabric, Add	307.35		
	For 2-1/8" Mesh Fabric, Deduct	-153.67		
32 31 13 13-0282	EA 16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,226.16		69.08
	For Gate With Single Barb Wire Arm, Add	222.06		
	For Gate With Double Barb Wire Arm, Add	322.99		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-378.51		
	For Aluminized Steel Gate And Post, Add	968.98		
	For Powder Coated Gate And Post, Add	524.86		
	For 1" Mesh Fabric, Add	878.13		
	For 1-1/4" Mesh Fabric, Add	565.24		
	For 1-3/4" Mesh Fabric, Add	351.25		
	For 2-1/8" Mesh Fabric, Deduct	-175.63		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0283	EA	18'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,534.22	87.60
			For Gate With Single Barb Wire Arm, Add	249.81	
			For Gate With Double Barb Wire Arm, Add	363.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-425.82	
			For Aluminized Steel Gate And Post, Add	1,090.09	
			For Powder Coated Gate And Post, Add	590.47	
			For 1" Mesh Fabric, Add	987.90	
			For 1-1/4" Mesh Fabric, Add	635.89	
			For 1-3/4" Mesh Fabric, Add	395.16	
			For 2-1/8" Mesh Fabric, Deduct	-197.58	
32 31 13 13-0284	EA	20'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,805.36	93.88
			For Gate With Single Barb Wire Arm, Add	277.57	
			For Gate With Double Barb Wire Arm, Add	403.74	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-473.13	
			For Aluminized Steel Gate And Post, Add	1,211.22	
			For Powder Coated Gate And Post, Add	656.08	
			For 1" Mesh Fabric, Add	1,097.67	
			For 1-1/4" Mesh Fabric, Add	706.54	
			For 1-3/4" Mesh Fabric, Add	439.07	
			For 2-1/8" Mesh Fabric, Deduct	-219.53	
32 31 13 13-0285	EA	22'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,073.23	101.16
			For Gate With Single Barb Wire Arm, Add	304.65	
			For Gate With Double Barb Wire Arm, Add	443.13	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-519.29	
			For Aluminized Steel Gate And Post, Add	1,329.38	
			For Powder Coated Gate And Post, Add	720.08	
			For 1" Mesh Fabric, Add	1,204.75	
			For 1-1/4" Mesh Fabric, Add	775.47	
			For 1-3/4" Mesh Fabric, Add	481.90	
			For 2-1/8" Mesh Fabric, Deduct	-240.95	
32 31 13 13-0286	EA	24'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,344.72	109.55
			For Gate With Single Barb Wire Arm, Add	331.73	
			For Gate With Double Barb Wire Arm, Add	482.52	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-565.45	
			For Aluminized Steel Gate And Post, Add	1,447.55	
			For Powder Coated Gate And Post, Add	784.09	
			For 1" Mesh Fabric, Add	1,311.84	
			For 1-1/4" Mesh Fabric, Add	844.40	
			For 1-3/4" Mesh Fabric, Add	524.74	
			For 2-1/8" Mesh Fabric, Deduct	-262.37	
32 31 13 13-0287	EA	26'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,620.81	119.54
			For Gate With Single Barb Wire Arm, Add	358.81	
			For Gate With Double Barb Wire Arm, Add	521.91	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-611.61	
			For Aluminized Steel Gate And Post, Add	1,565.72	
			For Powder Coated Gate And Post, Add	848.10	
			For 1" Mesh Fabric, Add	1,418.94	
			For 1-1/4" Mesh Fabric, Add	913.34	
			For 1-3/4" Mesh Fabric, Add	567.57	
			For 2-1/8" Mesh Fabric, Deduct	-283.79	
32 31 13 13-0288	EA	28'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	3,810.57	131.51
			For Gate With Single Barb Wire Arm, Add	375.74	
			For Gate With Double Barb Wire Arm, Add	546.52	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-640.46	
			For Aluminized Steel Gate And Post, Add	1,639.57	
			For Powder Coated Gate And Post, Add	888.10	
			For 1" Mesh Fabric, Add	1,485.86	
			For 1-1/4" Mesh Fabric, Add	956.42	
			For 1-3/4" Mesh Fabric, Add	594.35	
			For 2-1/8" Mesh Fabric, Deduct	-297.17	
32 31 13 13-0289	EA	30'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	4,223.71	146.07
			For Gate With Single Barb Wire Arm, Add	416.36	
			For Gate With Double Barb Wire Arm, Add	605.61	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-709.70	
			For Aluminized Steel Gate And Post, Add	1,816.82	
			For Powder Coated Gate And Post, Add	984.11	
			For 1" Mesh Fabric, Add	1,646.50	
			For 1-1/4" Mesh Fabric, Add	1,059.81	
			For 1-3/4" Mesh Fabric, Add	658.60	
			For 2-1/8" Mesh Fabric, Deduct	-329.30	
32 31 13 13-0290			5' Fence Height (32 31 13 13-0269)		
32 31 13 13-0291	EA	3'	Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	472.78	27.59
			For Gate With Single Barb Wire Arm, Add	42.88	
			For Gate With Double Barb Wire Arm, Add	62.37	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.09	
			For Aluminized Steel Gate And Post, Add	187.10	
			For Powder Coated Gate And Post, Add	101.35	
			For 1" Mesh Fabric, Add	169.56	
			For 1-1/4" Mesh Fabric, Add	109.14	
			For 1-3/4" Mesh Fabric, Add	67.82	
			For 2-1/8" Mesh Fabric, Deduct	-33.91	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0292	EA 4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	601.00		27.59
	For Gate With Single Barb Wire Arm, Add	56.98		
	For Gate With Double Barb Wire Arm, Add	82.88		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.13		
	For Aluminized Steel Gate And Post, Add	248.64		
	For Powder Coated Gate And Post, Add	134.68		
	For 1" Mesh Fabric, Add	225.33		
	For 1-1/4" Mesh Fabric, Add	145.04		
	For 1-3/4" Mesh Fabric, Add	90.13		
	For 2-1/8" Mesh Fabric, Deduct	-45.07		
32 31 13 13-0293	EA 5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	703.64		29.35
	For Gate With Single Barb Wire Arm, Add	67.70		
	For Gate With Double Barb Wire Arm, Add	98.47		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.40		
	For Aluminized Steel Gate And Post, Add	295.42		
	For Powder Coated Gate And Post, Add	160.02		
	For 1" Mesh Fabric, Add	267.73		
	For 1-1/4" Mesh Fabric, Add	172.33		
	For 1-3/4" Mesh Fabric, Add	107.09		
	For 2-1/8" Mesh Fabric, Deduct	-53.55		
32 31 13 13-0294	EA 6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	823.84		35.27
	For Gate With Single Barb Wire Arm, Add	78.98		
	For Gate With Double Barb Wire Arm, Add	114.88		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-134.63		
	For Aluminized Steel Gate And Post, Add	344.65		
	For Powder Coated Gate And Post, Add	186.69		
	For 1" Mesh Fabric, Add	312.34		
	For 1-1/4" Mesh Fabric, Add	201.05		
	For 1-3/4" Mesh Fabric, Add	124.94		
	For 2-1/8" Mesh Fabric, Deduct	-62.47		
32 31 13 13-0295	EA 7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	933.79		41.08
	For Gate With Single Barb Wire Arm, Add	89.14		
	For Gate With Double Barb Wire Arm, Add	129.66		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-151.94		
	For Aluminized Steel Gate And Post, Add	388.97		
	For Powder Coated Gate And Post, Add	210.69		
	For 1" Mesh Fabric, Add	352.50		
	For 1-1/4" Mesh Fabric, Add	226.90		
	For 1-3/4" Mesh Fabric, Add	141.00		
	For 2-1/8" Mesh Fabric, Deduct	-70.50		
32 31 13 13-0296	EA 8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,055.05		47.31
	For Gate With Single Barb Wire Arm, Add	100.42		
	For Gate With Double Barb Wire Arm, Add	146.07		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-171.17		
	For Aluminized Steel Gate And Post, Add	438.21		
	For Powder Coated Gate And Post, Add	237.36		
	For 1" Mesh Fabric, Add	397.12		
	For 1-1/4" Mesh Fabric, Add	255.62		
	For 1-3/4" Mesh Fabric, Add	158.85		
	For 2-1/8" Mesh Fabric, Deduct	-79.42		
32 31 13 13-0297	EA 9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,170.11		53.21
	For Gate With Single Barb Wire Arm, Add	111.14		
	For Gate With Double Barb Wire Arm, Add	161.66		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-189.44		
	For Aluminized Steel Gate And Post, Add	484.98		
	For Powder Coated Gate And Post, Add	262.70		
	For 1" Mesh Fabric, Add	439.51		
	For 1-1/4" Mesh Fabric, Add	282.90		
	For 1-3/4" Mesh Fabric, Add	175.80		
	For 2-1/8" Mesh Fabric, Deduct	-87.90		
32 31 13 13-0298	EA 10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,285.20		59.02
	For Gate With Single Barb Wire Arm, Add	121.86		
	For Gate With Double Barb Wire Arm, Add	177.25		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-207.72		
	For Aluminized Steel Gate And Post, Add	531.75		
	For Powder Coated Gate And Post, Add	288.03		
	For 1" Mesh Fabric, Add	481.90		
	For 1-1/4" Mesh Fabric, Add	310.19		
	For 1-3/4" Mesh Fabric, Add	192.76		
	For 2-1/8" Mesh Fabric, Deduct	-96.38		
32 31 13 13-0299	EA 10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,741.09		59.23
	For Gate With Single Barb Wire Arm, Add	171.96		
	For Gate With Double Barb Wire Arm, Add	250.12		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-293.11		
	For Aluminized Steel Gate And Post, Add	750.36		
	For Powder Coated Gate And Post, Add	406.45		
	For 1" Mesh Fabric, Add	680.02		
	For 1-1/4" Mesh Fabric, Add	437.71		
	For 1-3/4" Mesh Fabric, Add	272.01		
	For 2-1/8" Mesh Fabric, Deduct	-136.00		



Exterior Improvements			32
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
32 31 13 13-0300	EA 12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		2,068.65	63.80
	For Gate With Single Barb Wire Arm, Add		206.49	
	For Gate With Double Barb Wire Arm, Add		300.34	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-351.96	
	For Aluminized Steel Gate And Post, Add		901.03	
	For Powder Coated Gate And Post, Add		488.06	
	For 1" Mesh Fabric, Add		816.56	
	For 1-1/4" Mesh Fabric, Add		525.60	
	For 1-3/4" Mesh Fabric, Add		326.62	
	For 2-1/8" Mesh Fabric, Deduct		-163.31	
32 31 13 13-0301	EA 14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		2,398.48	69.08
	For Gate With Single Barb Wire Arm, Add		241.01	
	For Gate With Double Barb Wire Arm, Add		350.56	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-410.82	
	For Aluminized Steel Gate And Post, Add		1,051.69	
	For Powder Coated Gate And Post, Add		569.67	
	For 1" Mesh Fabric, Add		953.09	
	For 1-1/4" Mesh Fabric, Add		613.49	
	For 1-3/4" Mesh Fabric, Add		381.24	
	For 2-1/8" Mesh Fabric, Deduct		-190.62	
32 31 13 13-0302	EA 16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		2,768.10	87.60
	For Gate With Single Barb Wire Arm, Add		275.54	
	For Gate With Double Barb Wire Arm, Add		400.79	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-469.67	
	For Aluminized Steel Gate And Post, Add		1,202.36	
	For Powder Coated Gate And Post, Add		651.28	
	For 1" Mesh Fabric, Add		1,089.64	
	For 1-1/4" Mesh Fabric, Add		701.37	
	For 1-3/4" Mesh Fabric, Add		435.85	
	For 2-1/8" Mesh Fabric, Deduct		-217.93	
32 31 13 13-0303	EA 18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		3,094.62	93.88
	For Gate With Single Barb Wire Arm, Add		309.39	
	For Gate With Double Barb Wire Arm, Add		450.02	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-527.37	
	For Aluminized Steel Gate And Post, Add		1,350.06	
	For Powder Coated Gate And Post, Add		731.28	
	For 1" Mesh Fabric, Add		1,223.49	
	For 1-1/4" Mesh Fabric, Add		787.54	
	For 1-3/4" Mesh Fabric, Add		489.40	
	For 2-1/8" Mesh Fabric, Deduct		-244.70	
32 31 13 13-0304	EA 20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		3,436.35	101.16
	For Gate With Single Barb Wire Arm, Add		344.59	
	For Gate With Double Barb Wire Arm, Add		501.23	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-587.38	
	For Aluminized Steel Gate And Post, Add		1,503.68	
	For Powder Coated Gate And Post, Add		814.49	
	For 1" Mesh Fabric, Add		1,362.71	
	For 1-1/4" Mesh Fabric, Add		877.15	
	For 1-3/4" Mesh Fabric, Add		545.08	
	For 2-1/8" Mesh Fabric, Deduct		-272.54	
32 31 13 13-0305	EA 22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		3,775.54	109.55
	For Gate With Single Barb Wire Arm, Add		379.12	
	For Gate With Double Barb Wire Arm, Add		551.45	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-646.23	
	For Aluminized Steel Gate And Post, Add		1,654.34	
	For Powder Coated Gate And Post, Add		896.10	
	For 1" Mesh Fabric, Add		1,499.25	
	For 1-1/4" Mesh Fabric, Add		965.03	
	For 1-3/4" Mesh Fabric, Add		599.70	
	For 2-1/8" Mesh Fabric, Deduct		-299.85	
32 31 13 13-0306	EA 24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		4,113.17	119.54
	For Gate With Single Barb Wire Arm, Add		412.97	
	For Gate With Double Barb Wire Arm, Add		600.68	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-703.93	
	For Aluminized Steel Gate And Post, Add		1,802.05	
	For Powder Coated Gate And Post, Add		976.11	
	For 1" Mesh Fabric, Add		1,633.11	
	For 1-1/4" Mesh Fabric, Add		1,051.20	
	For 1-3/4" Mesh Fabric, Add		653.24	
	For 2-1/8" Mesh Fabric, Deduct		-326.62	
32 31 13 13-0307	EA 26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire		4,469.11	131.51
	For Gate With Single Barb Wire Arm, Add		448.18	
	For Gate With Double Barb Wire Arm, Add		651.89	
	For 1-5/8" Schedule 40 Pipe Frame, Deduct		-763.94	
	For Aluminized Steel Gate And Post, Add		1,955.67	
	For Powder Coated Gate And Post, Add		1,059.32	
	For 1" Mesh Fabric, Add		1,772.33	
	For 1-1/4" Mesh Fabric, Add		1,140.81	
	For 1-3/4" Mesh Fabric, Add		708.93	
	For 2-1/8" Mesh Fabric, Deduct		-354.47	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0308	EA		28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,822.98	146.07
			For Gate With Single Barb Wire Arm, Add	482.28	
			For Gate With Double Barb Wire Arm, Add	701.49	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-822.06	
			For Aluminized Steel Gate And Post, Add	2,104.47	
			For Powder Coated Gate And Post, Add	1,139.92	
			For 1" Mesh Fabric, Add	1,907.18	
			For 1-1/4" Mesh Fabric, Add	1,227.61	
			For 1-3/4" Mesh Fabric, Add	762.87	
			For 2-1/8" Mesh Fabric, Deduct	-381.44	
32 31 13 13-0309	EA		30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	5,183.26	164.33
			For Gate With Single Barb Wire Arm, Add	515.87	
			For Gate With Double Barb Wire Arm, Add	750.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-879.33	
			For Aluminized Steel Gate And Post, Add	2,251.09	
			For Powder Coated Gate And Post, Add	1,219.34	
			For 1" Mesh Fabric, Add	2,040.05	
			For 1-1/4" Mesh Fabric, Add	1,313.14	
			For 1-3/4" Mesh Fabric, Add	816.02	
			For 2-1/8" Mesh Fabric, Deduct	-408.01	
32 31 13 13-0310 6' Fence Height (32 31 13 13-0269)					
32 31 13 13-0311	EA		3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	506.91	29.57
			For Gate With Single Barb Wire Arm, Add	45.98	
			For Gate With Double Barb Wire Arm, Add	66.88	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.38	
			For Aluminized Steel Gate And Post, Add	200.64	
			For Powder Coated Gate And Post, Add	108.68	
			For 1" Mesh Fabric, Add	181.83	
			For 1-1/4" Mesh Fabric, Add	117.04	
			For 1-3/4" Mesh Fabric, Add	72.73	
			For 2-1/8" Mesh Fabric, Deduct	-36.37	
32 31 13 13-0312	EA		4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	645.38	29.57
			For Gate With Single Barb Wire Arm, Add	61.21	
			For Gate With Double Barb Wire Arm, Add	89.04	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-104.34	
			For Aluminized Steel Gate And Post, Add	267.11	
			For Powder Coated Gate And Post, Add	144.68	
			For 1" Mesh Fabric, Add	242.06	
			For 1-1/4" Mesh Fabric, Add	155.81	
			For 1-3/4" Mesh Fabric, Add	96.83	
			For 2-1/8" Mesh Fabric, Deduct	-48.41	
32 31 13 13-0313	EA		5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	756.78	31.43
			For Gate With Single Barb Wire Arm, Add	72.86	
			For Gate With Double Barb Wire Arm, Add	105.98	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.20	
			For Aluminized Steel Gate And Post, Add	317.94	
			For Powder Coated Gate And Post, Add	172.22	
			For 1" Mesh Fabric, Add	288.14	
			For 1-1/4" Mesh Fabric, Add	185.47	
			For 1-3/4" Mesh Fabric, Add	115.25	
			For 2-1/8" Mesh Fabric, Deduct	-57.63	
32 31 13 13-0314	EA		6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	878.30	37.96
			For Gate With Single Barb Wire Arm, Add	84.06	
			For Gate With Double Barb Wire Arm, Add	122.27	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-143.29	
			For Aluminized Steel Gate And Post, Add	366.81	
			For Powder Coated Gate And Post, Add	198.69	
			For 1" Mesh Fabric, Add	332.42	
			For 1-1/4" Mesh Fabric, Add	213.97	
			For 1-3/4" Mesh Fabric, Add	132.97	
			For 2-1/8" Mesh Fabric, Deduct	-66.48	
32 31 13 13-0315	EA		7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,005.70	44.61
			For Gate With Single Barb Wire Arm, Add	95.91	
			For Gate With Double Barb Wire Arm, Add	139.50	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.48	
			For Aluminized Steel Gate And Post, Add	418.51	
			For Powder Coated Gate And Post, Add	226.69	
			For 1" Mesh Fabric, Add	379.28	
			For 1-1/4" Mesh Fabric, Add	244.13	
			For 1-3/4" Mesh Fabric, Add	151.71	
			For 2-1/8" Mesh Fabric, Deduct	-75.86	
32 31 13 13-0316	EA		8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,126.95	50.83
			For Gate With Single Barb Wire Arm, Add	107.19	
			For Gate With Double Barb Wire Arm, Add	155.92	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-182.71	
			For Aluminized Steel Gate And Post, Add	467.75	
			For Powder Coated Gate And Post, Add	253.36	
			For 1" Mesh Fabric, Add	423.89	
			For 1-1/4" Mesh Fabric, Add	272.85	
			For 1-3/4" Mesh Fabric, Add	169.56	
			For 2-1/8" Mesh Fabric, Deduct	-84.78	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 31 13 13-0317	EA 9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,249.24		57.37
	For Gate With Single Barb Wire Arm, Add	118.48		
	For Gate With Double Barb Wire Arm, Add	172.33		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-201.95		
	For Aluminized Steel Gate And Post, Add	516.98		
	For Powder Coated Gate And Post, Add	280.03		
	For 1" Mesh Fabric, Add	468.52		
	For 1-1/4" Mesh Fabric, Add	301.57		
	For 1-3/4" Mesh Fabric, Add	187.41		
	For 2-1/8" Mesh Fabric, Deduct	-93.70		
32 31 13 13-0318	EA 10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,325.35		63.90
	For Gate With Single Barb Wire Arm, Add	124.68		
	For Gate With Double Barb Wire Arm, Add	181.35		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.52		
	For Aluminized Steel Gate And Post, Add	544.06		
	For Powder Coated Gate And Post, Add	294.70		
	For 1" Mesh Fabric, Add	493.06		
	For 1-1/4" Mesh Fabric, Add	317.37		
	For 1-3/4" Mesh Fabric, Add	197.22		
	For 2-1/8" Mesh Fabric, Deduct	-98.61		
32 31 13 13-0319	EA 10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,859.40		63.80
	For Gate With Single Barb Wire Arm, Add	183.47		
	For Gate With Double Barb Wire Arm, Add	266.86		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-312.73		
	For Aluminized Steel Gate And Post, Add	800.59		
	For Powder Coated Gate And Post, Add	433.65		
	For 1" Mesh Fabric, Add	725.53		
	For 1-1/4" Mesh Fabric, Add	467.01		
	For 1-3/4" Mesh Fabric, Add	290.21		
	For 2-1/8" Mesh Fabric, Deduct	-145.11		
32 31 13 13-0320	EA 12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,207.69		69.08
	For Gate With Single Barb Wire Arm, Add	220.03		
	For Gate With Double Barb Wire Arm, Add	320.04		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-375.04		
	For Aluminized Steel Gate And Post, Add	960.11		
	For Powder Coated Gate And Post, Add	520.06		
	For 1" Mesh Fabric, Add	870.10		
	For 1-1/4" Mesh Fabric, Add	560.06		
	For 1-3/4" Mesh Fabric, Add	348.04		
	For 2-1/8" Mesh Fabric, Deduct	-174.02		
32 31 13 13-0321	EA 14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,620.72		93.88
	For Gate With Single Barb Wire Arm, Add	257.26		
	For Gate With Double Barb Wire Arm, Add	374.20		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-438.51		
	For Aluminized Steel Gate And Post, Add	1,122.59		
	For Powder Coated Gate And Post, Add	608.07		
	For 1" Mesh Fabric, Add	1,017.35		
	For 1-1/4" Mesh Fabric, Add	654.84		
	For 1-3/4" Mesh Fabric, Add	406.94		
	For 2-1/8" Mesh Fabric, Deduct	-203.47		
32 31 13 13-0322	EA 16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,974.76		101.16
	For Gate With Single Barb Wire Arm, Add	293.82		
	For Gate With Double Barb Wire Arm, Add	427.37		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-500.83		
	For Aluminized Steel Gate And Post, Add	1,282.12		
	For Powder Coated Gate And Post, Add	694.48		
	For 1" Mesh Fabric, Add	1,161.92		
	For 1-1/4" Mesh Fabric, Add	747.90		
	For 1-3/4" Mesh Fabric, Add	464.77		
	For 2-1/8" Mesh Fabric, Deduct	-232.38		
32 31 13 13-0323	EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,338.57		109.55
	For Gate With Single Barb Wire Arm, Add	331.05		
	For Gate With Double Barb Wire Arm, Add	481.53		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-564.30		
	For Aluminized Steel Gate And Post, Add	1,444.60		
	For Powder Coated Gate And Post, Add	782.49		
	For 1" Mesh Fabric, Add	1,309.17		
	For 1-1/4" Mesh Fabric, Add	842.68		
	For 1-3/4" Mesh Fabric, Add	523.67		
	For 2-1/8" Mesh Fabric, Deduct	-261.83		
32 31 13 13-0324	EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,706.97		119.54
	For Gate With Single Barb Wire Arm, Add	368.29		
	For Gate With Double Barb Wire Arm, Add	535.69		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-627.77		
	For Aluminized Steel Gate And Post, Add	1,607.08		
	For Powder Coated Gate And Post, Add	870.50		
	For 1" Mesh Fabric, Add	1,456.41		
	For 1-1/4" Mesh Fabric, Add	937.46		
	For 1-3/4" Mesh Fabric, Add	582.57		
	For 2-1/8" Mesh Fabric, Deduct	-291.28		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0325	EA		22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,075.22	131.51
			For Gate With Single Barb Wire Arm, Add	404.85	
			For Gate With Double Barb Wire Arm, Add	588.87	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-690.08	
			For Aluminized Steel Gate And Post, Add	1,766.61	
			For Powder Coated Gate And Post, Add	956.91	
			For 1" Mesh Fabric, Add	1,600.99	
			For 1-1/4" Mesh Fabric, Add	1,030.52	
			For 1-3/4" Mesh Fabric, Add	640.39	
			For 2-1/8" Mesh Fabric, Deduct	-320.20	
32 31 13 13-0326	EA		24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,454.51	146.07
			For Gate With Single Barb Wire Arm, Add	441.74	
			For Gate With Double Barb Wire Arm, Add	642.54	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-752.97	
			For Aluminized Steel Gate And Post, Add	1,927.61	
			For Powder Coated Gate And Post, Add	1,044.12	
			For 1" Mesh Fabric, Add	1,746.89	
			For 1-1/4" Mesh Fabric, Add	1,124.44	
			For 1-3/4" Mesh Fabric, Add	698.76	
			For 2-1/8" Mesh Fabric, Deduct	-349.38	
32 31 13 13-0327	EA		26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,841.07	164.33
			For Gate With Single Barb Wire Arm, Add	478.23	
			For Gate With Double Barb Wire Arm, Add	695.61	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-815.17	
			For Aluminized Steel Gate And Post, Add	2,086.84	
			For Powder Coated Gate And Post, Add	1,130.37	
			For 1" Mesh Fabric, Add	1,891.20	
			For 1-1/4" Mesh Fabric, Add	1,217.32	
			For 1-3/4" Mesh Fabric, Add	756.48	
			For 2-1/8" Mesh Fabric, Deduct	-378.24	
32 31 13 13-0328	EA		28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	5,247.61	187.77
			For Gate With Single Barb Wire Arm, Add	515.20	
			For Gate With Double Barb Wire Arm, Add	749.38	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-878.18	
			For Aluminized Steel Gate And Post, Add	2,248.14	
			For Powder Coated Gate And Post, Add	1,217.74	
			For 1" Mesh Fabric, Add	2,037.37	
			For 1-1/4" Mesh Fabric, Add	1,311.41	
			For 1-3/4" Mesh Fabric, Add	814.95	
			For 2-1/8" Mesh Fabric, Deduct	-407.47	
32 31 13 13-0329	EA		30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	5,678.25	219.11
			For Gate With Single Barb Wire Arm, Add	552.23	
			For Gate With Double Barb Wire Arm, Add	803.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-941.30	
			For Aluminized Steel Gate And Post, Add	2,409.73	
			For Powder Coated Gate And Post, Add	1,305.27	
			For 1" Mesh Fabric, Add	2,163.82	
			For 1-1/4" Mesh Fabric, Add	1,405.68	
			For 1-3/4" Mesh Fabric, Add	873.53	
			For 2-1/8" Mesh Fabric, Deduct	-436.76	
32 31 13 13-0330 7' Fence Height (32 31 13 13-0269)					
32 31 13 13-0331	EA		3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	531.70	31.85
			For Gate With Single Barb Wire Arm, Add	47.95	
			For Gate With Double Barb Wire Arm, Add	69.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.74	
			For Aluminized Steel Gate And Post, Add	209.26	
			For Powder Coated Gate And Post, Add	113.35	
			For 1" Mesh Fabric, Add	189.64	
			For 1-1/4" Mesh Fabric, Add	122.07	
			For 1-3/4" Mesh Fabric, Add	75.86	
			For 2-1/8" Mesh Fabric, Deduct	-37.93	
32 31 13 13-0332	EA		4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	675.30	31.85
			For Gate With Single Barb Wire Arm, Add	63.75	
			For Gate With Double Barb Wire Arm, Add	92.73	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.67	
			For Aluminized Steel Gate And Post, Add	278.18	
			For Powder Coated Gate And Post, Add	150.68	
			For 1" Mesh Fabric, Add	252.10	
			For 1-1/4" Mesh Fabric, Add	162.27	
			For 1-3/4" Mesh Fabric, Add	100.84	
			For 2-1/8" Mesh Fabric, Deduct	-50.42	
32 31 13 13-0333	EA		5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	796.50	33.50
			For Gate With Single Barb Wire Arm, Add	76.55	
			For Gate With Double Barb Wire Arm, Add	111.34	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-130.48	
			For Aluminized Steel Gate And Post, Add	334.02	
			For Powder Coated Gate And Post, Add	180.93	
			For 1" Mesh Fabric, Add	302.71	
			For 1-1/4" Mesh Fabric, Add	194.85	
			For 1-3/4" Mesh Fabric, Add	121.08	
			For 2-1/8" Mesh Fabric, Deduct	-60.54	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM DESCRIPTION		
32 31 13 13-0334	EA 6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	976.24 93.92 136.61 -160.10 409.84 222.00 371.42 239.08 148.57 -74.28	40.76
32 31 13 13-0335	EA 7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,155.00 111.30 161.90 -189.72 485.69 263.08 440.16 283.32 176.06 -88.03	47.71
32 31 13 13-0336	EA 8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,334.76 128.68 187.17 -219.34 561.52 304.16 508.88 327.55 203.55 -101.78	54.87
32 31 13 13-0337	EA 9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,513.52 146.06 212.46 -248.97 637.37 345.24 577.61 371.80 231.05 -115.52	61.82
32 31 13 13-0338	EA 10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	1,664.81 160.31 233.18 -273.25 699.53 378.91 633.95 408.06 253.58 -126.79	69.08
32 31 13 13-0339	EA 10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	2,120.41 210.42 306.07 -358.68 918.22 497.37 832.13 535.63 332.85 -166.43	69.08
32 31 13 13-0340	EA 12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	2,409.04 233.98 340.33 -398.82 1,020.98 553.03 925.27 595.57 370.11 -185.05	93.88
32 31 13 13-0341	EA 14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	2,785.24 272.97 397.05 -465.29 1,191.15 645.21 1,079.48 694.84 431.79 -215.90	101.16

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0342	EA	16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,135.47	109.55
			For Gate With Single Barb Wire Arm, Add	308.71	
			For Gate With Double Barb Wire Arm, Add	449.04	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-526.22	
			For Aluminized Steel Gate And Post, Add	1,347.11	
			For Powder Coated Gate And Post, Add	729.68	
			For 1" Mesh Fabric, Add	1,220.82	
			For 1-1/4" Mesh Fabric, Add	785.81	
			For 1-3/4" Mesh Fabric, Add	488.33	
			For 2-1/8" Mesh Fabric, Deduct	-244.16	
32 31 13	13-0343	EA	18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,522.33	119.54
			For Gate With Single Barb Wire Arm, Add	347.98	
			For Gate With Double Barb Wire Arm, Add	506.15	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-593.15	
			For Aluminized Steel Gate And Post, Add	1,518.45	
			For Powder Coated Gate And Post, Add	822.49	
			For 1" Mesh Fabric, Add	1,376.10	
			For 1-1/4" Mesh Fabric, Add	885.76	
			For 1-3/4" Mesh Fabric, Add	550.44	
			For 2-1/8" Mesh Fabric, Deduct	-275.22	
32 31 13	13-0344	EA	20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,909.04	131.51
			For Gate With Single Barb Wire Arm, Add	386.57	
			For Gate With Double Barb Wire Arm, Add	562.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-658.92	
			For Aluminized Steel Gate And Post, Add	1,686.84	
			For Powder Coated Gate And Post, Add	913.71	
			For 1" Mesh Fabric, Add	1,528.70	
			For 1-1/4" Mesh Fabric, Add	983.99	
			For 1-3/4" Mesh Fabric, Add	611.48	
			For 2-1/8" Mesh Fabric, Deduct	-305.74	
32 31 13	13-0345	EA	22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,303.72	146.07
			For Gate With Single Barb Wire Arm, Add	425.16	
			For Gate With Double Barb Wire Arm, Add	618.41	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-724.70	
			For Aluminized Steel Gate And Post, Add	1,855.23	
			For Powder Coated Gate And Post, Add	1,004.92	
			For 1" Mesh Fabric, Add	1,681.30	
			For 1-1/4" Mesh Fabric, Add	1,082.22	
			For 1-3/4" Mesh Fabric, Add	672.52	
			For 2-1/8" Mesh Fabric, Deduct	-336.26	
32 31 13	13-0346	EA	24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,709.36	164.33
			For Gate With Single Barb Wire Arm, Add	463.75	
			For Gate With Double Barb Wire Arm, Add	674.54	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-790.48	
			For Aluminized Steel Gate And Post, Add	2,023.62	
			For Powder Coated Gate And Post, Add	1,096.13	
			For 1" Mesh Fabric, Add	1,833.90	
			For 1-1/4" Mesh Fabric, Add	1,180.44	
			For 1-3/4" Mesh Fabric, Add	733.56	
			For 2-1/8" Mesh Fabric, Deduct	-366.78	
32 31 13	13-0347	EA	26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,130.67	187.77
			For Gate With Single Barb Wire Arm, Add	502.33	
			For Gate With Double Barb Wire Arm, Add	730.67	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-856.25	
			For Aluminized Steel Gate And Post, Add	2,192.01	
			For Powder Coated Gate And Post, Add	1,187.34	
			For 1" Mesh Fabric, Add	1,986.51	
			For 1-1/4" Mesh Fabric, Add	1,278.67	
			For 1-3/4" Mesh Fabric, Add	794.60	
			For 2-1/8" Mesh Fabric, Deduct	-397.30	
32 31 13	13-0348	EA	28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,575.47	219.11
			For Gate With Single Barb Wire Arm, Add	540.92	
			For Gate With Double Barb Wire Arm, Add	786.80	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-922.03	
			For Aluminized Steel Gate And Post, Add	2,360.40	
			For Powder Coated Gate And Post, Add	1,278.55	
			For 1" Mesh Fabric, Add	2,139.11	
			For 1-1/4" Mesh Fabric, Add	1,376.90	
			For 1-3/4" Mesh Fabric, Add	855.64	
			For 2-1/8" Mesh Fabric, Deduct	-427.82	
32 31 13	13-0349	EA	30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	6,057.88	262.91
			For Gate With Single Barb Wire Arm, Add	579.51	
			For Gate With Double Barb Wire Arm, Add	842.93	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-987.81	
			For Aluminized Steel Gate And Post, Add	2,528.78	
			For Powder Coated Gate And Post, Add	1,369.76	
			For 1" Mesh Fabric, Add	2,291.71	
			For 1-1/4" Mesh Fabric, Add	1,475.12	
			For 1-3/4" Mesh Fabric, Add	916.68	
			For 2-1/8" Mesh Fabric, Deduct	-458.34	

32 31 13 13-0350 8' Fence Height (32 31 13 13-0269)



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0351	EA	3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	624.38	34.55
			For Gate With Single Barb Wire Arm, Add	57.27	
			For Gate With Double Barb Wire Arm, Add	83.30	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-97.62	
			For Aluminized Steel Gate And Post, Add	249.91	
			For Powder Coated Gate And Post, Add	135.37	
			For 1" Mesh Fabric, Add	226.48	
			For 1-1/4" Mesh Fabric, Add	145.78	
			For 1-3/4" Mesh Fabric, Add	90.59	
			For 2-1/8" Mesh Fabric, Deduct	-45.30	
32 31 13	13-0352	EA	4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	797.93	34.55
			For Gate With Single Barb Wire Arm, Add	76.36	
			For Gate With Double Barb Wire Arm, Add	111.07	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-130.16	
			For Aluminized Steel Gate And Post, Add	333.22	
			For Powder Coated Gate And Post, Add	180.49	
			For 1" Mesh Fabric, Add	301.98	
			For 1-1/4" Mesh Fabric, Add	194.38	
			For 1-3/4" Mesh Fabric, Add	120.79	
			For 2-1/8" Mesh Fabric, Deduct	-60.40	
32 31 13	13-0353	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	932.11	38.48
			For Gate With Single Barb Wire Arm, Add	89.81	
			For Gate With Double Barb Wire Arm, Add	130.63	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-153.08	
			For Aluminized Steel Gate And Post, Add	391.90	
			For Powder Coated Gate And Post, Add	212.28	
			For 1" Mesh Fabric, Add	355.16	
			For 1-1/4" Mesh Fabric, Add	228.61	
			For 1-3/4" Mesh Fabric, Add	142.06	
			For 2-1/8" Mesh Fabric, Deduct	-71.03	
32 31 13	13-0354	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,069.42	43.56
			For Gate With Single Barb Wire Arm, Add	103.26	
			For Gate With Double Barb Wire Arm, Add	150.20	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-176.01	
			For Aluminized Steel Gate And Post, Add	450.59	
			For Powder Coated Gate And Post, Add	244.07	
			For 1" Mesh Fabric, Add	408.34	
			For 1-1/4" Mesh Fabric, Add	262.84	
			For 1-3/4" Mesh Fabric, Add	163.34	
			For 2-1/8" Mesh Fabric, Deduct	-81.67	
32 31 13	13-0355	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,218.66	52.49
			For Gate With Single Barb Wire Arm, Add	116.71	
			For Gate With Double Barb Wire Arm, Add	169.76	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-198.94	
			For Aluminized Steel Gate And Post, Add	509.28	
			For Powder Coated Gate And Post, Add	275.86	
			For 1" Mesh Fabric, Add	461.53	
			For 1-1/4" Mesh Fabric, Add	297.08	
			For 1-3/4" Mesh Fabric, Add	184.61	
			For 2-1/8" Mesh Fabric, Deduct	-92.31	
32 31 13	13-0356	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,366.87	61.10
			For Gate With Single Barb Wire Arm, Add	130.16	
			For Gate With Double Barb Wire Arm, Add	189.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-221.86	
			For Aluminized Steel Gate And Post, Add	567.97	
			For Powder Coated Gate And Post, Add	307.65	
			For 1" Mesh Fabric, Add	514.72	
			For 1-1/4" Mesh Fabric, Add	331.32	
			For 1-3/4" Mesh Fabric, Add	205.89	
			For 2-1/8" Mesh Fabric, Deduct	-102.94	
32 31 13	13-0357	EA	9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,516.11	70.12
			For Gate With Single Barb Wire Arm, Add	143.61	
			For Gate With Double Barb Wire Arm, Add	208.89	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-244.79	
			For Aluminized Steel Gate And Post, Add	626.66	
			For Powder Coated Gate And Post, Add	339.44	
			For 1" Mesh Fabric, Add	567.91	
			For 1-1/4" Mesh Fabric, Add	365.55	
			For 1-3/4" Mesh Fabric, Add	227.16	
			For 2-1/8" Mesh Fabric, Deduct	-113.58	
32 31 13	13-0358	EA	10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,665.34	79.14
			For Gate With Single Barb Wire Arm, Add	157.06	
			For Gate With Double Barb Wire Arm, Add	228.45	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-267.71	
			For Aluminized Steel Gate And Post, Add	685.35	
			For Powder Coated Gate And Post, Add	371.23	
			For 1" Mesh Fabric, Add	621.10	
			For 1-1/4" Mesh Fabric, Add	399.79	
			For 1-3/4" Mesh Fabric, Add	248.44	
			For 2-1/8" Mesh Fabric, Deduct	-124.22	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0359	EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,423.73		93.88
	For Gate With Single Barb Wire Arm, Add	235.59		
	For Gate With Double Barb Wire Arm, Add	342.68		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-401.58		
	For Aluminized Steel Gate And Post, Add	1,028.04		
	For Powder Coated Gate And Post, Add	556.85		
	For 1" Mesh Fabric, Add	931.66		
	For 1-1/4" Mesh Fabric, Add	599.69		
	For 1-3/4" Mesh Fabric, Add	372.66		
	For 2-1/8" Mesh Fabric, Deduct	-186.33		
32 31 13 13-0360	EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,857.82		101.16
	For Gate With Single Barb Wire Arm, Add	280.96		
	For Gate With Double Barb Wire Arm, Add	408.66		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-478.90		
	For Aluminized Steel Gate And Post, Add	1,225.99		
	For Powder Coated Gate And Post, Add	664.08		
	For 1" Mesh Fabric, Add	1,111.05		
	For 1-1/4" Mesh Fabric, Add	715.16		
	For 1-3/4" Mesh Fabric, Add	444.42		
	For 2-1/8" Mesh Fabric, Deduct	-222.21		
32 31 13 13-0361	EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,301.64		109.55
	For Gate With Single Barb Wire Arm, Add	326.99		
	For Gate With Double Barb Wire Arm, Add	475.62		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-557.37		
	For Aluminized Steel Gate And Post, Add	1,426.87		
	For Powder Coated Gate And Post, Add	772.89		
	For 1" Mesh Fabric, Add	1,293.10		
	For 1-1/4" Mesh Fabric, Add	832.34		
	For 1-3/4" Mesh Fabric, Add	517.24		
	For 2-1/8" Mesh Fabric, Deduct	-258.62		
32 31 13 13-0362	EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,762.36		119.54
	For Gate With Single Barb Wire Arm, Add	374.38		
	For Gate With Double Barb Wire Arm, Add	544.56		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-638.15		
	For Aluminized Steel Gate And Post, Add	1,633.67		
	For Powder Coated Gate And Post, Add	884.90		
	For 1" Mesh Fabric, Add	1,480.51		
	For 1-1/4" Mesh Fabric, Add	952.97		
	For 1-3/4" Mesh Fabric, Add	592.20		
	For 2-1/8" Mesh Fabric, Deduct	-296.10		
32 31 13 13-0363	EA 18' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,229.08		131.51
	For Gate With Single Barb Wire Arm, Add	421.77		
	For Gate With Double Barb Wire Arm, Add	613.49		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-718.93		
	For Aluminized Steel Gate And Post, Add	1,840.46		
	For Powder Coated Gate And Post, Add	996.92		
	For 1" Mesh Fabric, Add	1,667.92		
	For 1-1/4" Mesh Fabric, Add	1,073.60		
	For 1-3/4" Mesh Fabric, Add	667.17		
	For 2-1/8" Mesh Fabric, Deduct	-333.58		
32 31 13 13-0364	EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,697.62		146.07
	For Gate With Single Barb Wire Arm, Add	468.49		
	For Gate With Double Barb Wire Arm, Add	681.43		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-798.56		
	For Aluminized Steel Gate And Post, Add	2,044.30		
	For Powder Coated Gate And Post, Add	1,107.33		
	For 1" Mesh Fabric, Add	1,852.65		
	For 1-1/4" Mesh Fabric, Add	1,192.51		
	For 1-3/4" Mesh Fabric, Add	741.06		
	For 2-1/8" Mesh Fabric, Deduct	-370.53		
32 31 13 13-0365	EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,170.96		164.33
	For Gate With Single Barb Wire Arm, Add	514.52		
	For Gate With Double Barb Wire Arm, Add	748.40		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-877.03		
	For Aluminized Steel Gate And Post, Add	2,245.19		
	For Powder Coated Gate And Post, Add	1,216.14		
	For 1" Mesh Fabric, Add	2,034.70		
	For 1-1/4" Mesh Fabric, Add	1,309.69		
	For 1-3/4" Mesh Fabric, Add	813.88		
	For 2-1/8" Mesh Fabric, Deduct	-406.94		
32 31 13 13-0366	EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,672.27		187.77
	For Gate With Single Barb Wire Arm, Add	561.91		
	For Gate With Double Barb Wire Arm, Add	817.32		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-957.80		
	For Aluminized Steel Gate And Post, Add	2,451.97		
	For Powder Coated Gate And Post, Add	1,328.15		
	For 1" Mesh Fabric, Add	2,222.10		
	For 1-1/4" Mesh Fabric, Add	1,430.32		
	For 1-3/4" Mesh Fabric, Add	888.84		
	For 2-1/8" Mesh Fabric, Deduct	-444.42		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0367	EA		26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,197.08	219.11
			For Gate With Single Barb Wire Arm, Add	609.30	
			For Gate With Double Barb Wire Arm, Add	886.26	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,038.58	
			For Aluminized Steel Gate And Post, Add	2,658.77	
			For Powder Coated Gate And Post, Add	1,440.17	
			For 1" Mesh Fabric, Add	2,409.51	
			For 1-1/4" Mesh Fabric, Add	1,550.95	
			For 1-3/4" Mesh Fabric, Add	963.80	
			For 2-1/8" Mesh Fabric, Deduct	-481.90	
32 31 13 13-0368	EA		28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,753.35	262.91
			For Gate With Single Barb Wire Arm, Add	656.01	
			For Gate With Double Barb Wire Arm, Add	954.20	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,118.21	
			For Aluminized Steel Gate And Post, Add	2,862.61	
			For Powder Coated Gate And Post, Add	1,550.58	
			For 1" Mesh Fabric, Add	2,594.24	
			For 1-1/4" Mesh Fabric, Add	1,669.86	
			For 1-3/4" Mesh Fabric, Add	1,037.70	
			For 2-1/8" Mesh Fabric, Deduct	-518.85	
32 31 13 13-0369	EA		30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	7,375.40	328.66
			For Gate With Single Barb Wire Arm, Add	702.73	
			For Gate With Double Barb Wire Arm, Add	1,022.15	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,197.83	
			For Aluminized Steel Gate And Post, Add	3,066.45	
			For Powder Coated Gate And Post, Add	1,660.99	
			For 1" Mesh Fabric, Add	2,778.97	
			For 1-1/4" Mesh Fabric, Add	1,788.76	
			For 1-3/4" Mesh Fabric, Add	1,111.59	
			For 2-1/8" Mesh Fabric, Deduct	-555.79	
32 31 13 13-0370 10' Fence Height (32 31 13 13-0269)					
32 31 13 13-0371	EA		3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	788.52	38.38
			For Gate With Single Barb Wire Arm, Add	74.06	
			For Gate With Double Barb Wire Arm, Add	107.72	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.24	
			For Aluminized Steel Gate And Post, Add	323.17	
			For Powder Coated Gate And Post, Add	175.05	
			For 1" Mesh Fabric, Add	292.87	
			For 1-1/4" Mesh Fabric, Add	188.52	
			For 1-3/4" Mesh Fabric, Add	117.15	
			For 2-1/8" Mesh Fabric, Deduct	-58.57	
32 31 13 13-0372	EA		4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,012.94	38.38
			For Gate With Single Barb Wire Arm, Add	98.75	
			For Gate With Double Barb Wire Arm, Add	143.63	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-168.32	
			For Aluminized Steel Gate And Post, Add	430.89	
			For Powder Coated Gate And Post, Add	233.40	
			For 1" Mesh Fabric, Add	390.50	
			For 1-1/4" Mesh Fabric, Add	251.35	
			For 1-3/4" Mesh Fabric, Add	156.20	
			For 2-1/8" Mesh Fabric, Deduct	-78.10	
32 31 13 13-0373	EA		5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,176.13	40.04
			For Gate With Single Barb Wire Arm, Add	116.14	
			For Gate With Double Barb Wire Arm, Add	168.93	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.96	
			For Aluminized Steel Gate And Post, Add	506.79	
			For Powder Coated Gate And Post, Add	274.51	
			For 1" Mesh Fabric, Add	459.28	
			For 1-1/4" Mesh Fabric, Add	295.63	
			For 1-3/4" Mesh Fabric, Add	183.71	
			For 2-1/8" Mesh Fabric, Deduct	-91.86	
32 31 13 13-0374	EA		6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,363.30	49.79
			For Gate With Single Barb Wire Arm, Add	133.53	
			For Gate With Double Barb Wire Arm, Add	194.23	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-227.61	
			For Aluminized Steel Gate And Post, Add	582.69	
			For Powder Coated Gate And Post, Add	315.62	
			For 1" Mesh Fabric, Add	528.06	
			For 1-1/4" Mesh Fabric, Add	339.90	
			For 1-3/4" Mesh Fabric, Add	211.23	
			For 2-1/8" Mesh Fabric, Deduct	-105.61	
32 31 13 13-0375	EA		7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,549.84	59.02
			For Gate With Single Barb Wire Arm, Add	150.92	
			For Gate With Double Barb Wire Arm, Add	219.52	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-257.25	
			For Aluminized Steel Gate And Post, Add	658.56	
			For Powder Coated Gate And Post, Add	356.72	
			For 1" Mesh Fabric, Add	596.82	
			For 1-1/4" Mesh Fabric, Add	384.16	
			For 1-3/4" Mesh Fabric, Add	238.73	
			For 2-1/8" Mesh Fabric, Deduct	-119.36	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0376	EA 8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,736.54		68.78
	For Gate With Single Barb Wire Arm, Add	168.31		
	For Gate With Double Barb Wire Arm, Add	244.82		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-286.90		
	For Aluminized Steel Gate And Post, Add	734.46		
	For Powder Coated Gate And Post, Add	397.83		
	For 1" Mesh Fabric, Add	665.61		
	For 1-1/4" Mesh Fabric, Add	428.44		
	For 1-3/4" Mesh Fabric, Add	266.24		
	For 2-1/8" Mesh Fabric, Deduct	-133.12		
32 31 13 13-0377	EA 9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,922.67		78.11
	For Gate With Single Barb Wire Arm, Add	185.71		
	For Gate With Double Barb Wire Arm, Add	270.12		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-316.55		
	For Aluminized Steel Gate And Post, Add	810.36		
	For Powder Coated Gate And Post, Add	438.95		
	For 1" Mesh Fabric, Add	734.39		
	For 1-1/4" Mesh Fabric, Add	472.71		
	For 1-3/4" Mesh Fabric, Add	293.76		
	For 2-1/8" Mesh Fabric, Deduct	-146.88		
32 31 13 13-0378	EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	2,109.85		87.76
	For Gate With Single Barb Wire Arm, Add	203.10		
	For Gate With Double Barb Wire Arm, Add	295.42		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-346.19		
	For Aluminized Steel Gate And Post, Add	886.26		
	For Powder Coated Gate And Post, Add	480.06		
	For 1" Mesh Fabric, Add	803.17		
	For 1-1/4" Mesh Fabric, Add	516.98		
	For 1-3/4" Mesh Fabric, Add	321.27		
	For 2-1/8" Mesh Fabric, Deduct	-160.63		
32 31 13 13-0379	EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,082.86		104.38
	For Gate With Single Barb Wire Arm, Add	304.65		
	For Gate With Double Barb Wire Arm, Add	443.12		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-519.29		
	For Aluminized Steel Gate And Post, Add	1,329.37		
	For Powder Coated Gate And Post, Add	720.08		
	For 1" Mesh Fabric, Add	1,204.75		
	For 1-1/4" Mesh Fabric, Add	775.47		
	For 1-3/4" Mesh Fabric, Add	481.90		
	For 2-1/8" Mesh Fabric, Deduct	-240.95		
32 31 13 13-0380	EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,353.09		112.27
	For Gate With Single Barb Wire Arm, Add	331.74		
	For Gate With Double Barb Wire Arm, Add	482.52		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-565.46		
	For Aluminized Steel Gate And Post, Add	1,447.57		
	For Powder Coated Gate And Post, Add	784.10		
	For 1" Mesh Fabric, Add	1,311.86		
	For 1-1/4" Mesh Fabric, Add	844.42		
	For 1-3/4" Mesh Fabric, Add	524.75		
	For 2-1/8" Mesh Fabric, Deduct	-262.37		
32 31 13 13-0381	EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,824.41		121.77
	For Gate With Single Barb Wire Arm, Add	380.47		
	For Gate With Double Barb Wire Arm, Add	553.42		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-648.54		
	For Aluminized Steel Gate And Post, Add	1,660.25		
	For Powder Coated Gate And Post, Add	899.30		
	For 1" Mesh Fabric, Add	1,504.60		
	For 1-1/4" Mesh Fabric, Add	968.48		
	For 1-3/4" Mesh Fabric, Add	601.84		
	For 2-1/8" Mesh Fabric, Deduct	-300.92		
32 31 13 13-0382	EA 16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,349.85		132.75
	For Gate With Single Barb Wire Arm, Add	434.64		
	For Gate With Double Barb Wire Arm, Add	632.20		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-740.86		
	For Aluminized Steel Gate And Post, Add	1,896.59		
	For Powder Coated Gate And Post, Add	1,027.32		
	For 1" Mesh Fabric, Add	1,718.79		
	For 1-1/4" Mesh Fabric, Add	1,106.34		
	For 1-3/4" Mesh Fabric, Add	687.51		
	For 2-1/8" Mesh Fabric, Deduct	-343.76		
32 31 13 13-0383	EA 18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,882.25		146.07
	For Gate With Single Barb Wire Arm, Add	488.79		
	For Gate With Double Barb Wire Arm, Add	710.97		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-833.17		
	For Aluminized Steel Gate And Post, Add	2,132.92		
	For Powder Coated Gate And Post, Add	1,155.33		
	For 1" Mesh Fabric, Add	1,932.96		
	For 1-1/4" Mesh Fabric, Add	1,244.21		
	For 1-3/4" Mesh Fabric, Add	773.18		
	For 2-1/8" Mesh Fabric, Deduct	-386.59		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 31 13 13-0384	EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,426.18		162.24
	For Gate With Single Barb Wire Arm, Add	543.29		
	For Gate With Double Barb Wire Arm, Add	790.24		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-926.07		
	For Aluminized Steel Gate And Post, Add	2,370.73		
	For Powder Coated Gate And Post, Add	1,284.15		
	For 1" Mesh Fabric, Add	2,148.48		
	For 1-1/4" Mesh Fabric, Add	1,382.93		
	For 1-3/4" Mesh Fabric, Add	859.39		
	For 2-1/8" Mesh Fabric, Deduct	-429.70		
32 31 13 13-0385	EA 22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,982.80		182.59
	For Gate With Single Barb Wire Arm, Add	597.79		
	For Gate With Double Barb Wire Arm, Add	869.52		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,018.97		
	For Aluminized Steel Gate And Post, Add	2,608.55		
	For Powder Coated Gate And Post, Add	1,412.96		
	For 1" Mesh Fabric, Add	2,364.00		
	For 1-1/4" Mesh Fabric, Add	1,521.65		
	For 1-3/4" Mesh Fabric, Add	945.60		
	For 2-1/8" Mesh Fabric, Deduct	-472.80		
32 31 13 13-0386	EA 24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,553.09		208.49
	For Gate With Single Barb Wire Arm, Add	651.95		
	For Gate With Double Barb Wire Arm, Add	948.29		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,111.28		
	For Aluminized Steel Gate And Post, Add	2,844.88		
	For Powder Coated Gate And Post, Add	1,540.98		
	For 1" Mesh Fabric, Add	2,578.18		
	For 1-1/4" Mesh Fabric, Add	1,659.52		
	For 1-3/4" Mesh Fabric, Add	1,031.27		
	For 2-1/8" Mesh Fabric, Deduct	-515.64		
32 31 13 13-0387	EA 26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,150.30		243.42
	For Gate With Single Barb Wire Arm, Add	706.11		
	For Gate With Double Barb Wire Arm, Add	1,027.07		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,203.60		
	For Aluminized Steel Gate And Post, Add	3,081.22		
	For Powder Coated Gate And Post, Add	1,668.99		
	For 1" Mesh Fabric, Add	2,792.36		
	For 1-1/4" Mesh Fabric, Add	1,797.38		
	For 1-3/4" Mesh Fabric, Add	1,116.94		
	For 2-1/8" Mesh Fabric, Deduct	-558.47		
32 31 13 13-0388	EA 28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,788.10		291.89
	For Gate With Single Barb Wire Arm, Add	760.27		
	For Gate With Double Barb Wire Arm, Add	1,105.85		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,295.92		
	For Aluminized Steel Gate And Post, Add	3,317.55		
	For Powder Coated Gate And Post, Add	1,797.01		
	For 1" Mesh Fabric, Add	3,006.53		
	For 1-1/4" Mesh Fabric, Add	1,935.24		
	For 1-3/4" Mesh Fabric, Add	1,202.61		
	For 2-1/8" Mesh Fabric, Deduct	-601.31		
32 31 13 13-0389	EA 30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	8,506.73		365.18
	For Gate With Single Barb Wire Arm, Add	815.11		
	For Gate With Double Barb Wire Arm, Add	1,185.61		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,389.39		
	For Aluminized Steel Gate And Post, Add	3,556.84		
	For Powder Coated Gate And Post, Add	1,926.62		
	For 1" Mesh Fabric, Add	3,223.39		
	For 1-1/4" Mesh Fabric, Add	2,074.83		
	For 1-3/4" Mesh Fabric, Add	1,289.36		
	For 2-1/8" Mesh Fabric, Deduct	-644.68		
32 31 13 13-0390 12' Fence Height (32 31 13 13-0269)				
32 31 13 13-0391	EA 3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	989.85		42.63
	For Gate With Single Barb Wire Arm, Add	94.80		
	For Gate With Double Barb Wire Arm, Add	137.89		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.59		
	For Aluminized Steel Gate And Post, Add	413.66		
	For Powder Coated Gate And Post, Add	224.07		
	For 1" Mesh Fabric, Add	374.88		
	For 1-1/4" Mesh Fabric, Add	241.30		
	For 1-3/4" Mesh Fabric, Add	149.95		
	For 2-1/8" Mesh Fabric, Deduct	-74.98		
32 31 13 13-0392	EA 4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,277.09		42.63
	For Gate With Single Barb Wire Arm, Add	126.39		
	For Gate With Double Barb Wire Arm, Add	183.84		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.44		
	For Aluminized Steel Gate And Post, Add	551.53		
	For Powder Coated Gate And Post, Add	298.75		
	For 1" Mesh Fabric, Add	499.83		
	For 1-1/4" Mesh Fabric, Add	321.73		
	For 1-3/4" Mesh Fabric, Add	199.93		
	For 2-1/8" Mesh Fabric, Deduct	-99.97		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0393	EA 5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,484.21		44.19
	For Gate With Single Barb Wire Arm, Add	148.66		
	For Gate With Double Barb Wire Arm, Add	216.23		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-253.40		
	For Aluminized Steel Gate And Post, Add	648.69		
	For Powder Coated Gate And Post, Add	351.37		
	For 1" Mesh Fabric, Add	587.88		
	For 1-1/4" Mesh Fabric, Add	378.40		
	For 1-3/4" Mesh Fabric, Add	235.15		
	For 2-1/8" Mesh Fabric, Deduct	-117.58		
32 31 13 13-0394	EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,718.75		54.87
	For Gate With Single Barb Wire Arm, Add	170.92		
	For Gate With Double Barb Wire Arm, Add	248.61		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-291.34		
	For Aluminized Steel Gate And Post, Add	745.83		
	For Powder Coated Gate And Post, Add	403.99		
	For 1" Mesh Fabric, Add	675.91		
	For 1-1/4" Mesh Fabric, Add	435.07		
	For 1-3/4" Mesh Fabric, Add	270.36		
	For 2-1/8" Mesh Fabric, Deduct	-135.18		
32 31 13 13-0395	EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	668.42		65.66
	For Gate With Single Barb Wire Arm, Add	51.85		
	For Gate With Double Barb Wire Arm, Add	75.41		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.37		
	For Aluminized Steel Gate And Post, Add	226.24		
	For Powder Coated Gate And Post, Add	122.55		
	For 1" Mesh Fabric, Add	205.03		
	For 1-1/4" Mesh Fabric, Add	131.97		
	For 1-3/4" Mesh Fabric, Add	82.01		
	For 2-1/8" Mesh Fabric, Deduct	-41.01		
32 31 13 13-0396	EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	753.85		76.03
	For Gate With Single Barb Wire Arm, Add	57.82		
	For Gate With Double Barb Wire Arm, Add	84.10		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.56		
	For Aluminized Steel Gate And Post, Add	252.31		
	For Powder Coated Gate And Post, Add	136.67		
	For 1" Mesh Fabric, Add	228.65		
	For 1-1/4" Mesh Fabric, Add	147.18		
	For 1-3/4" Mesh Fabric, Add	91.46		
	For 2-1/8" Mesh Fabric, Deduct	-45.73		
32 31 13 13-0397	EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	840.32		86.72
	For Gate With Single Barb Wire Arm, Add	63.80		
	For Gate With Double Barb Wire Arm, Add	92.79		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.74		
	For Aluminized Steel Gate And Post, Add	278.38		
	For Powder Coated Gate And Post, Add	150.79		
	For 1" Mesh Fabric, Add	252.28		
	For 1-1/4" Mesh Fabric, Add	162.39		
	For 1-3/4" Mesh Fabric, Add	100.91		
	For 2-1/8" Mesh Fabric, Deduct	-50.46		
32 31 13 13-0398	EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	926.81		97.40
	For Gate With Single Barb Wire Arm, Add	69.77		
	For Gate With Double Barb Wire Arm, Add	101.48		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-118.93		
	For Aluminized Steel Gate And Post, Add	304.45		
	For Powder Coated Gate And Post, Add	164.91		
	For 1" Mesh Fabric, Add	275.91		
	For 1-1/4" Mesh Fabric, Add	177.60		
	For 1-3/4" Mesh Fabric, Add	110.36		
	For 2-1/8" Mesh Fabric, Deduct	-55.18		
32 31 13 13-0399	EA 10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,231.85		115.97
	For Gate With Single Barb Wire Arm, Add	97.21		
	For Gate With Double Barb Wire Arm, Add	141.39		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.70		
	For Aluminized Steel Gate And Post, Add	424.18		
	For Powder Coated Gate And Post, Add	229.76		
	For 1" Mesh Fabric, Add	384.41		
	For 1-1/4" Mesh Fabric, Add	247.44		
	For 1-3/4" Mesh Fabric, Add	153.77		
	For 2-1/8" Mesh Fabric, Deduct	-76.88		
32 31 13 13-0400	EA 12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,345.97		124.85
	For Gate With Single Barb Wire Arm, Add	106.84		
	For Gate With Double Barb Wire Arm, Add	155.40		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-182.11		
	For Aluminized Steel Gate And Post, Add	466.20		
	For Powder Coated Gate And Post, Add	252.53		
	For 1" Mesh Fabric, Add	422.50		
	For 1-1/4" Mesh Fabric, Add	271.95		
	For 1-3/4" Mesh Fabric, Add	169.00		
	For 2-1/8" Mesh Fabric, Deduct	-84.50		



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 31 13 13-0401	EA 14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,519.47		135.21
	For Gate With Single Barb Wire Arm, Add	122.46		
	For Gate With Double Barb Wire Arm, Add	178.13		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-208.75		
	For Aluminized Steel Gate And Post, Add	534.39		
	For Powder Coated Gate And Post, Add	289.46		
	For 1" Mesh Fabric, Add	484.29		
	For 1-1/4" Mesh Fabric, Add	311.73		
	For 1-3/4" Mesh Fabric, Add	193.72		
	For 2-1/8" Mesh Fabric, Deduct	-96.86		
32 31 13 13-0402	EA 16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,714.87		147.43
	For Gate With Single Barb Wire Arm, Add	139.91		
	For Gate With Double Barb Wire Arm, Add	203.50		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-238.48		
	For Aluminized Steel Gate And Post, Add	610.51		
	For Powder Coated Gate And Post, Add	330.69		
	For 1" Mesh Fabric, Add	553.27		
	For 1-1/4" Mesh Fabric, Add	356.13		
	For 1-3/4" Mesh Fabric, Add	221.31		
	For 2-1/8" Mesh Fabric, Deduct	-110.65		
32 31 13 13-0403	EA 18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,817.00		162.36
	For Gate With Single Barb Wire Arm, Add	586.28		
	For Gate With Double Barb Wire Arm, Add	852.78		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-999.35		
	For Aluminized Steel Gate And Post, Add	2,558.33		
	For Powder Coated Gate And Post, Add	1,385.76		
	For 1" Mesh Fabric, Add	2,318.48		
	For 1-1/4" Mesh Fabric, Add	1,492.36		
	For 1-3/4" Mesh Fabric, Add	927.39		
	For 2-1/8" Mesh Fabric, Deduct	-463.70		
32 31 13 13-0404	EA 20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,467.94		180.25
	For Gate With Single Barb Wire Arm, Add	651.95		
	For Gate With Double Barb Wire Arm, Add	948.29		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,111.28		
	For Aluminized Steel Gate And Post, Add	2,844.88		
	For Powder Coated Gate And Post, Add	1,540.98		
	For 1" Mesh Fabric, Add	2,578.18		
	For 1-1/4" Mesh Fabric, Add	1,659.52		
	For 1-3/4" Mesh Fabric, Add	1,031.27		
	For 2-1/8" Mesh Fabric, Deduct	-515.64		
32 31 13 13-0405	EA 22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,126.93		202.83
	For Gate With Single Barb Wire Arm, Add	716.94		
	For Gate With Double Barb Wire Arm, Add	1,042.83		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,222.07		
	For Aluminized Steel Gate And Post, Add	3,128.49		
	For Powder Coated Gate And Post, Add	1,694.60		
	For 1" Mesh Fabric, Add	2,835.19		
	For 1-1/4" Mesh Fabric, Add	1,824.95		
	For 1-3/4" Mesh Fabric, Add	1,134.08		
	For 2-1/8" Mesh Fabric, Deduct	-567.04		
32 31 13 13-0406	EA 24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,810.50		231.69
	For Gate With Single Barb Wire Arm, Add	782.61		
	For Gate With Double Barb Wire Arm, Add	1,138.35		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,334.00		
	For Aluminized Steel Gate And Post, Add	3,415.04		
	For Powder Coated Gate And Post, Add	1,849.81		
	For 1" Mesh Fabric, Add	3,094.88		
	For 1-1/4" Mesh Fabric, Add	1,992.11		
	For 1-3/4" Mesh Fabric, Add	1,237.95		
	For 2-1/8" Mesh Fabric, Deduct	-618.98		
32 31 13 13-0407	EA 26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,511.67		270.56
	For Gate With Single Barb Wire Arm, Add	846.93		
	For Gate With Double Barb Wire Arm, Add	1,231.90		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,443.63		
	For Aluminized Steel Gate And Post, Add	3,695.69		
	For Powder Coated Gate And Post, Add	2,001.63		
	For 1" Mesh Fabric, Add	3,349.22		
	For 1-1/4" Mesh Fabric, Add	2,155.82		
	For 1-3/4" Mesh Fabric, Add	1,339.69		
	For 2-1/8" Mesh Fabric, Deduct	-669.84		
32 31 13 13-0408	EA 28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	9,264.11		324.34
	For Gate With Single Barb Wire Arm, Add	911.92		
	For Gate With Double Barb Wire Arm, Add	1,326.43		
	For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,554.41		
	For Aluminized Steel Gate And Post, Add	3,979.29		
	For Powder Coated Gate And Post, Add	2,155.45		
	For 1" Mesh Fabric, Add	3,606.23		
	For 1-1/4" Mesh Fabric, Add	2,321.25		
	For 1-3/4" Mesh Fabric, Add	1,442.49		
	For 2-1/8" Mesh Fabric, Deduct	-721.25		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0409 EA 30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	10,105.66	405.77
For Gate With Single Barb Wire Arm, Add	977.59	
For Gate With Double Barb Wire Arm, Add	1,421.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,666.35	
For Aluminized Steel Gate And Post, Add	4,265.85	
For Powder Coated Gate And Post, Add	2,310.67	
For 1" Mesh Fabric, Add	3,865.92	
For 1-1/4" Mesh Fabric, Add	2,488.41	
For 1-3/4" Mesh Fabric, Add	1,546.37	
For 2-1/8" Mesh Fabric, Deduct	-773.18	
32 31 13 13-0410 Vinyl Coated Without Barb Wire Arm (32 31 13 13-0268)		
Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0411 4' Fence Height (32 31 13 13-0410)		
32 31 13 13-0412 EA 3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	188.02	25.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-20.67	
For 1" Mesh Fabric, Add	47.95	
For 1-1/4" Mesh Fabric, Add	30.86	
For 1-3/4" Mesh Fabric, Add	19.18	
For 2-1/8" Mesh Fabric, Deduct	-9.59	
For Gate With Single Barb Wire Arm, Add	12.12	
For Gate With Double Barb Wire Arm, Add	17.64	
32 31 13 13-0413 EA 4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	224.76	25.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.56	
For 1" Mesh Fabric, Add	63.93	
For 1-1/4" Mesh Fabric, Add	41.15	
For 1-3/4" Mesh Fabric, Add	25.57	
For 2-1/8" Mesh Fabric, Deduct	-12.79	
For Gate With Single Barb Wire Arm, Add	16.17	
For Gate With Double Barb Wire Arm, Add	23.51	
32 31 13 13-0414 EA 5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	260.57	27.59
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.30	
For 1" Mesh Fabric, Add	77.25	
For 1-1/4" Mesh Fabric, Add	49.72	
For 1-3/4" Mesh Fabric, Add	30.90	
For 2-1/8" Mesh Fabric, Deduct	-15.45	
For Gate With Single Barb Wire Arm, Add	19.53	
For Gate With Double Barb Wire Arm, Add	28.41	
32 31 13 13-0415 EA 6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	307.78	33.20
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.04	
For 1" Mesh Fabric, Add	90.57	
For 1-1/4" Mesh Fabric, Add	58.30	
For 1-3/4" Mesh Fabric, Add	36.23	
For 2-1/8" Mesh Fabric, Deduct	-18.11	
For Gate With Single Barb Wire Arm, Add	22.90	
For Gate With Double Barb Wire Arm, Add	33.31	
32 31 13 13-0416 EA 7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	354.99	38.69
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-44.78	
For 1" Mesh Fabric, Add	103.88	
For 1-1/4" Mesh Fabric, Add	66.87	
For 1-3/4" Mesh Fabric, Add	41.55	
For 2-1/8" Mesh Fabric, Deduct	-20.78	
For Gate With Single Barb Wire Arm, Add	26.27	
For Gate With Double Barb Wire Arm, Add	38.21	
32 31 13 13-0417 EA 8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	402.21	44.19
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.52	
For 1" Mesh Fabric, Add	117.21	
For 1-1/4" Mesh Fabric, Add	75.44	
For 1-3/4" Mesh Fabric, Add	46.88	
For 2-1/8" Mesh Fabric, Deduct	-23.44	
For Gate With Single Barb Wire Arm, Add	29.64	
For Gate With Double Barb Wire Arm, Add	43.11	
32 31 13 13-0418 EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	449.42	49.79
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.26	
For 1" Mesh Fabric, Add	130.52	
For 1-1/4" Mesh Fabric, Add	84.01	
For 1-3/4" Mesh Fabric, Add	52.21	
For 2-1/8" Mesh Fabric, Deduct	-26.10	
For Gate With Single Barb Wire Arm, Add	33.01	
For Gate With Double Barb Wire Arm, Add	48.01	
32 31 13 13-0419 EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm	496.63	55.29
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.00	
For 1" Mesh Fabric, Add	143.84	
For 1-1/4" Mesh Fabric, Add	92.58	
For 1-3/4" Mesh Fabric, Add	57.53	
For 2-1/8" Mesh Fabric, Deduct	-28.77	
For Gate With Single Barb Wire Arm, Add	36.37	
For Gate With Double Barb Wire Arm, Add	52.91	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0420	EA	10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	606.86 -82.67 191.79 123.45 76.71 -38.36 48.50 70.54	55.29
32 31 13	13-0421	EA	12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	706.89 -99.20 230.14 148.14 92.06 -46.03 58.20 84.65	59.23
32 31 13	13-0422	EA	14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	808.75 -115.73 268.50 172.83 107.40 -53.70 67.90 98.76	63.80
32 31 13	13-0423	EA	16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	912.88 -132.27 306.86 197.52 122.74 -61.37 77.60 112.87	69.08
32 31 13	13-0424	EA	18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,056.79 -148.80 345.22 222.21 138.09 -69.04 87.30 126.98	87.60
32 31 13	13-0425	EA	20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,163.76 -165.33 383.57 246.90 153.43 -76.71 96.99 141.08	93.88
32 31 13	13-0426	EA	22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,273.63 -181.87 421.93 271.59 168.77 -84.39 106.69 155.19	101.16
32 31 13	13-0427	EA	24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,387.12 -198.40 460.29 296.28 184.11 -92.06 116.39 169.30	109.55
32 31 13	13-0428	EA	26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,505.20 -214.93 498.64 320.97 199.46 -99.73 126.09 183.41	119.54
32 31 13	13-0429	EA	28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,629.27 -231.47 537.00 345.65 214.80 -107.40 135.79 197.52	131.51

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0430	EA	30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,761.32		146.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.00		
		For 1" Mesh Fabric, Add	575.36		
		For 1-1/4" Mesh Fabric, Add	370.34		
		For 1-3/4" Mesh Fabric, Add	230.14		
		For 2-1/8" Mesh Fabric, Deduct	-115.07		
		For Gate With Single Barb Wire Arm, Add	145.49		
		For Gate With Double Barb Wire Arm, Add	211.63		
32 31 13 13-0431 5' Fence Height (32 31 13 13-0410)					
32 31 13 13-0432	EA	3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	219.57		27.59
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.61		
		For 1" Mesh Fabric, Add	59.41		
		For 1-1/4" Mesh Fabric, Add	38.24		
		For 1-3/4" Mesh Fabric, Add	23.76		
		For 2-1/8" Mesh Fabric, Deduct	-11.88		
		For Gate With Single Barb Wire Arm, Add	15.02		
		For Gate With Double Barb Wire Arm, Add	21.85		
32 31 13 13-0433	EA	4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	265.10		27.59
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.15		
		For 1" Mesh Fabric, Add	79.22		
		For 1-1/4" Mesh Fabric, Add	50.99		
		For 1-3/4" Mesh Fabric, Add	31.69		
		For 2-1/8" Mesh Fabric, Deduct	-15.84		
		For Gate With Single Barb Wire Arm, Add	20.03		
		For Gate With Double Barb Wire Arm, Add	29.14		
32 31 13 13-0434	EA	5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	304.43		29.35
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.55		
		For 1" Mesh Fabric, Add	94.07		
		For 1-1/4" Mesh Fabric, Add	60.55		
		For 1-3/4" Mesh Fabric, Add	37.63		
		For 2-1/8" Mesh Fabric, Deduct	-18.81		
		For Gate With Single Barb Wire Arm, Add	23.79		
		For Gate With Double Barb Wire Arm, Add	34.60		
32 31 13 13-0435	EA	6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	356.20		35.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.95		
		For 1" Mesh Fabric, Add	108.92		
		For 1-1/4" Mesh Fabric, Add	70.11		
		For 1-3/4" Mesh Fabric, Add	43.57		
		For 2-1/8" Mesh Fabric, Deduct	-21.78		
		For Gate With Single Barb Wire Arm, Add	27.54		
		For Gate With Double Barb Wire Arm, Add	40.06		
32 31 13 13-0436	EA	7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	407.99		41.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.35		
		For 1" Mesh Fabric, Add	123.78		
		For 1-1/4" Mesh Fabric, Add	79.67		
		For 1-3/4" Mesh Fabric, Add	49.51		
		For 2-1/8" Mesh Fabric, Deduct	-24.76		
		For Gate With Single Barb Wire Arm, Add	31.30		
		For Gate With Double Barb Wire Arm, Add	45.53		
32 31 13 13-0437	EA	8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	460.80		47.31
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.75		
		For 1" Mesh Fabric, Add	138.63		
		For 1-1/4" Mesh Fabric, Add	89.23		
		For 1-3/4" Mesh Fabric, Add	55.45		
		For 2-1/8" Mesh Fabric, Deduct	-27.73		
		For Gate With Single Barb Wire Arm, Add	35.06		
		For Gate With Double Barb Wire Arm, Add	50.99		
32 31 13 13-0438	EA	9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	512.58		53.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.16		
		For 1" Mesh Fabric, Add	153.49		
		For 1-1/4" Mesh Fabric, Add	98.80		
		For 1-3/4" Mesh Fabric, Add	61.39		
		For 2-1/8" Mesh Fabric, Deduct	-30.70		
		For Gate With Single Barb Wire Arm, Add	38.81		
		For Gate With Double Barb Wire Arm, Add	56.45		
32 31 13 13-0439	EA	10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm	564.36		59.02
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.56		
		For 1" Mesh Fabric, Add	168.34		
		For 1-1/4" Mesh Fabric, Add	108.35		
		For 1-3/4" Mesh Fabric, Add	67.33		
		For 2-1/8" Mesh Fabric, Deduct	-33.67		
		For Gate With Single Barb Wire Arm, Add	42.57		
		For Gate With Double Barb Wire Arm, Add	61.92		
32 31 13 13-0440	EA	10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	724.15		59.23
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.44		
		For 1" Mesh Fabric, Add	237.65		
		For 1-1/4" Mesh Fabric, Add	152.97		
		For 1-3/4" Mesh Fabric, Add	95.06		
		For 2-1/8" Mesh Fabric, Deduct	-47.53		
		For Gate With Single Barb Wire Arm, Add	60.10		
		For Gate With Double Barb Wire Arm, Add	87.41		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0441	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	847.09 -122.92 285.18 183.56 114.07 -57.04 72.11 104.89	63.80
32 31 13	13-0442	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	972.30 -143.41 332.71 214.16 133.08 -66.54 84.13 122.37	69.08
32 31 13	13-0443	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,137.30 -163.90 380.24 244.75 152.10 -76.05 96.15 139.86	87.60
32 31 13	13-0444	EA	18' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,265.36 -184.38 427.77 275.34 171.11 -85.55 108.17 157.34	93.88
32 31 13	13-0445	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,396.32 -204.87 475.30 305.94 190.12 -95.06 120.19 174.82	101.16
32 31 13	13-0446	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,530.89 -225.36 522.83 336.53 209.13 -104.57 132.21 192.30	109.55
32 31 13	13-0447	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,670.05 -245.84 570.35 367.12 228.14 -114.07 144.23 209.79	119.54
32 31 13	13-0448	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,815.22 -266.33 617.89 397.72 247.15 -123.58 156.25 227.27	131.51
32 31 13	13-0449	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,968.35 -286.82 665.42 428.31 266.17 -133.08 168.27 244.75	146.07
32 31 13	13-0450	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,132.44 -307.30 712.94 458.91 285.18 -142.59 180.28 262.23	164.33

32 31 13 13-0451 6' Fence Height (32 31 13 13-0410)

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0452	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	234.87		29.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.37		
		For 1" Mesh Fabric, Add	63.49		
		For 1-1/4" Mesh Fabric, Add	40.87		
		For 1-3/4" Mesh Fabric, Add	25.40		
		For 2-1/8" Mesh Fabric, Deduct	-12.70		
		For Gate With Single Barb Wire Arm, Add	16.06		
		For Gate With Double Barb Wire Arm, Add	23.35		
32 31 13 13-0453	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	283.53		29.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.49		
		For 1" Mesh Fabric, Add	84.66		
		For 1-1/4" Mesh Fabric, Add	54.49		
		For 1-3/4" Mesh Fabric, Add	33.86		
		For 2-1/8" Mesh Fabric, Deduct	-16.93		
		For Gate With Single Barb Wire Arm, Add	21.41		
		For Gate With Double Barb Wire Arm, Add	31.14		
32 31 13 13-0454	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	325.50		31.43
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.33		
		For 1" Mesh Fabric, Add	100.53		
		For 1-1/4" Mesh Fabric, Add	64.71		
		For 1-3/4" Mesh Fabric, Add	40.21		
		For 2-1/8" Mesh Fabric, Deduct	-20.11		
		For Gate With Single Barb Wire Arm, Add	25.42		
		For Gate With Double Barb Wire Arm, Add	36.98		
32 31 13 13-0455	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	381.72		37.96
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.18		
		For 1" Mesh Fabric, Add	116.41		
		For 1-1/4" Mesh Fabric, Add	74.93		
		For 1-3/4" Mesh Fabric, Add	46.56		
		For 2-1/8" Mesh Fabric, Deduct	-23.28		
		For Gate With Single Barb Wire Arm, Add	29.44		
		For Gate With Double Barb Wire Arm, Add	42.82		
32 31 13 13-0456	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	437.91		44.61
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.02		
		For 1" Mesh Fabric, Add	132.28		
		For 1-1/4" Mesh Fabric, Add	85.15		
		For 1-3/4" Mesh Fabric, Add	52.91		
		For 2-1/8" Mesh Fabric, Deduct	-26.46		
		For Gate With Single Barb Wire Arm, Add	33.45		
		For Gate With Double Barb Wire Arm, Add	48.66		
32 31 13 13-0457	EA	8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	493.07		50.83
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.86		
		For 1" Mesh Fabric, Add	148.16		
		For 1-1/4" Mesh Fabric, Add	95.37		
		For 1-3/4" Mesh Fabric, Add	59.26		
		For 2-1/8" Mesh Fabric, Deduct	-29.63		
		For Gate With Single Barb Wire Arm, Add	37.46		
		For Gate With Double Barb Wire Arm, Add	54.49		
32 31 13 13-0458	EA	9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	549.27		57.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.70		
		For 1" Mesh Fabric, Add	164.03		
		For 1-1/4" Mesh Fabric, Add	105.58		
		For 1-3/4" Mesh Fabric, Add	65.61		
		For 2-1/8" Mesh Fabric, Deduct	-32.81		
		For Gate With Single Barb Wire Arm, Add	41.48		
		For Gate With Double Barb Wire Arm, Add	60.33		
32 31 13 13-0459	EA	10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	605.47		63.90
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.54		
		For 1" Mesh Fabric, Add	179.90		
		For 1-1/4" Mesh Fabric, Add	115.80		
		For 1-3/4" Mesh Fabric, Add	71.96		
		For 2-1/8" Mesh Fabric, Deduct	-35.98		
		For Gate With Single Barb Wire Arm, Add	45.49		
		For Gate With Double Barb Wire Arm, Add	66.17		
32 31 13 13-0460	EA	10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	775.37		63.80
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.47		
		For 1" Mesh Fabric, Add	253.98		
		For 1-1/4" Mesh Fabric, Add	163.48		
		For 1-3/4" Mesh Fabric, Add	101.59		
		For 2-1/8" Mesh Fabric, Deduct	-50.80		
		For Gate With Single Barb Wire Arm, Add	64.22		
		For Gate With Double Barb Wire Arm, Add	93.42		
32 31 13 13-0461	EA	12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	908.09		69.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.37		
		For 1" Mesh Fabric, Add	304.77		
		For 1-1/4" Mesh Fabric, Add	196.18		
		For 1-3/4" Mesh Fabric, Add	121.91		
		For 2-1/8" Mesh Fabric, Deduct	-60.95		
		For Gate With Single Barb Wire Arm, Add	77.07		
		For Gate With Double Barb Wire Arm, Add	112.10		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0462	EA		14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,099.39 -153.26 355.57 228.87 142.23 -71.11 89.91 130.78	93.88
32 31 13 13-0463	EA		16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,237.85 -175.16 406.36 261.57 162.55 -81.27 102.76 149.47	101.16
32 31 13 13-0464	EA		18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,379.93 -197.05 457.16 294.26 182.86 -91.43 115.60 168.15	109.55
32 31 13 13-0465	EA		20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,548.19 -222.99 517.35 333.00 206.94 -103.47 130.82 190.29	119.54
32 31 13 13-0466	EA		22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,683.19 -241.58 560.45 360.75 224.18 -112.09 141.72 206.14	131.51
32 31 13 13-0467	EA		24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,839.92 -262.74 609.55 392.35 243.82 -121.91 154.14 224.20	146.07
32 31 13 13-0468	EA		26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,011.52 -284.63 660.34 425.05 264.14 -132.07 166.98 242.88	164.33
32 31 13 13-0469	EA		28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,198.79 -306.53 711.14 457.74 284.46 -142.23 179.83 261.57	187.77
32 31 13 13-0470	EA		30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,409.55 -328.42 761.93 490.44 304.77 -152.39 192.67 280.25	219.11
32 31 13 13-0471			7' Fence Height (32 31 13 13-0410)		
32 31 13 13-0472	EA		3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	249.06 -28.75 66.69 42.93 26.68 -13.34 16.86 24.53	31.85

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0473	EA	4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	300.17		31.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.33		
		For 1" Mesh Fabric, Add	88.92		
		For 1-1/4" Mesh Fabric, Add	57.24		
		For 1-3/4" Mesh Fabric, Add	35.57		
		For 2-1/8" Mesh Fabric, Deduct	-17.78		
		For Gate With Single Barb Wire Arm, Add	22.49		
		For Gate With Double Barb Wire Arm, Add	32.71		
32 31 13 13-0474	EA	5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	343.38		33.50
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.52		
		For 1" Mesh Fabric, Add	105.60		
		For 1-1/4" Mesh Fabric, Add	67.97		
		For 1-3/4" Mesh Fabric, Add	42.24		
		For 2-1/8" Mesh Fabric, Deduct	-21.12		
		For Gate With Single Barb Wire Arm, Add	26.70		
		For Gate With Double Barb Wire Arm, Add	38.84		
32 31 13 13-0475	EA	6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	403.48		40.76
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-52.70		
		For 1" Mesh Fabric, Add	122.27		
		For 1-1/4" Mesh Fabric, Add	78.70		
		For 1-3/4" Mesh Fabric, Add	48.91		
		For 2-1/8" Mesh Fabric, Deduct	-24.45		
		For Gate With Single Barb Wire Arm, Add	30.92		
		For Gate With Double Barb Wire Arm, Add	44.97		
32 31 13 13-0476	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	462.56		47.71
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.89		
		For 1" Mesh Fabric, Add	138.95		
		For 1-1/4" Mesh Fabric, Add	89.44		
		For 1-3/4" Mesh Fabric, Add	55.58		
		For 2-1/8" Mesh Fabric, Deduct	-27.79		
		For Gate With Single Barb Wire Arm, Add	35.14		
		For Gate With Double Barb Wire Arm, Add	51.11		
32 31 13 13-0477	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	522.68		54.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.08		
		For 1" Mesh Fabric, Add	155.62		
		For 1-1/4" Mesh Fabric, Add	100.17		
		For 1-3/4" Mesh Fabric, Add	62.25		
		For 2-1/8" Mesh Fabric, Deduct	-31.12		
		For Gate With Single Barb Wire Arm, Add	39.35		
		For Gate With Double Barb Wire Arm, Add	57.24		
32 31 13 13-0478	EA	9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	581.74		61.82
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-74.26		
		For 1" Mesh Fabric, Add	172.29		
		For 1-1/4" Mesh Fabric, Add	110.90		
		For 1-3/4" Mesh Fabric, Add	68.92		
		For 2-1/8" Mesh Fabric, Deduct	-34.46		
		For Gate With Single Barb Wire Arm, Add	43.57		
		For Gate With Double Barb Wire Arm, Add	63.37		
32 31 13 13-0479	EA	10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	641.87		69.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.45		
		For 1" Mesh Fabric, Add	188.97		
		For 1-1/4" Mesh Fabric, Add	121.63		
		For 1-3/4" Mesh Fabric, Add	75.59		
		For 2-1/8" Mesh Fabric, Deduct	-37.79		
		For Gate With Single Barb Wire Arm, Add	47.79		
		For Gate With Double Barb Wire Arm, Add	69.51		
32 31 13 13-0480	EA	10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	820.73		69.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.99		
		For 1" Mesh Fabric, Add	266.77		
		For 1-1/4" Mesh Fabric, Add	171.72		
		For 1-3/4" Mesh Fabric, Add	106.71		
		For 2-1/8" Mesh Fabric, Deduct	-53.35		
		For Gate With Single Barb Wire Arm, Add	67.46		
		For Gate With Double Barb Wire Arm, Add	98.12		
32 31 13 13-0481	EA	12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,017.90		93.88
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-137.98		
		For 1" Mesh Fabric, Add	320.12		
		For 1-1/4" Mesh Fabric, Add	206.05		
		For 1-3/4" Mesh Fabric, Add	128.05		
		For 2-1/8" Mesh Fabric, Deduct	-64.02		
		For Gate With Single Barb Wire Arm, Add	80.95		
		For Gate With Double Barb Wire Arm, Add	117.75		
32 31 13 13-0482	EA	14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,162.26		101.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-160.98		
		For 1" Mesh Fabric, Add	373.48		
		For 1-1/4" Mesh Fabric, Add	240.40		
		For 1-3/4" Mesh Fabric, Add	149.39		
		For 2-1/8" Mesh Fabric, Deduct	-74.70		
		For Gate With Single Barb Wire Arm, Add	94.44		
		For Gate With Double Barb Wire Arm, Add	137.37		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0483	EA	16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,310.20	109.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-183.98	
		For 1" Mesh Fabric, Add	426.83	
		For 1-1/4" Mesh Fabric, Add	274.74	
		For 1-3/4" Mesh Fabric, Add	170.73	
		For 2-1/8" Mesh Fabric, Deduct	-85.37	
		For Gate With Single Barb Wire Arm, Add	107.93	
		For Gate With Double Barb Wire Arm, Add	156.99	
32 31 13 13-0484	EA	18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,462.77	119.54
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-206.98	
		For 1" Mesh Fabric, Add	480.19	
		For 1-1/4" Mesh Fabric, Add	309.09	
		For 1-3/4" Mesh Fabric, Add	192.08	
		For 2-1/8" Mesh Fabric, Deduct	-96.04	
		For Gate With Single Barb Wire Arm, Add	121.43	
		For Gate With Double Barb Wire Arm, Add	176.62	
32 31 13 13-0485	EA	20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,621.30	131.51
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-229.97	
		For 1" Mesh Fabric, Add	533.53	
		For 1-1/4" Mesh Fabric, Add	343.42	
		For 1-3/4" Mesh Fabric, Add	213.41	
		For 2-1/8" Mesh Fabric, Deduct	-106.71	
		For Gate With Single Barb Wire Arm, Add	134.92	
		For Gate With Double Barb Wire Arm, Add	196.24	
32 31 13 13-0486	EA	22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,787.81	146.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-252.97	
		For 1" Mesh Fabric, Add	586.88	
		For 1-1/4" Mesh Fabric, Add	377.76	
		For 1-3/4" Mesh Fabric, Add	234.75	
		For 2-1/8" Mesh Fabric, Deduct	-117.38	
		For Gate With Single Barb Wire Arm, Add	148.41	
		For Gate With Double Barb Wire Arm, Add	215.86	
32 31 13 13-0487	EA	24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,965.31	164.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-275.97	
		For 1" Mesh Fabric, Add	640.24	
		For 1-1/4" Mesh Fabric, Add	412.11	
		For 1-3/4" Mesh Fabric, Add	256.10	
		For 2-1/8" Mesh Fabric, Deduct	-128.05	
		For Gate With Single Barb Wire Arm, Add	161.90	
		For Gate With Double Barb Wire Arm, Add	235.49	
32 31 13 13-0488	EA	26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,158.47	187.77
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-298.97	
		For 1" Mesh Fabric, Add	693.60	
		For 1-1/4" Mesh Fabric, Add	446.45	
		For 1-3/4" Mesh Fabric, Add	277.44	
		For 2-1/8" Mesh Fabric, Deduct	-138.72	
		For Gate With Single Barb Wire Arm, Add	175.39	
		For Gate With Double Barb Wire Arm, Add	255.12	
32 31 13 13-0489	EA	28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,375.10	219.11
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-321.96	
		For 1" Mesh Fabric, Add	746.95	
		For 1-1/4" Mesh Fabric, Add	480.79	
		For 1-3/4" Mesh Fabric, Add	298.78	
		For 2-1/8" Mesh Fabric, Deduct	-149.39	
		For Gate With Single Barb Wire Arm, Add	188.88	
		For Gate With Double Barb Wire Arm, Add	274.74	
32 31 13 13-0490	EA	30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,629.37	262.91
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-344.96	
		For 1" Mesh Fabric, Add	800.31	
		For 1-1/4" Mesh Fabric, Add	515.14	
		For 1-3/4" Mesh Fabric, Add	320.12	
		For 2-1/8" Mesh Fabric, Deduct	-160.06	
		For Gate With Single Barb Wire Arm, Add	202.38	
		For Gate With Double Barb Wire Arm, Add	294.37	
32 31 13 13-0491		8' Fence Height ^(32 31 13 13-0410)		
32 31 13 13-0492	EA	3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	289.55	34.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.84	
		For 1" Mesh Fabric, Add	80.83	
		For 1-1/4" Mesh Fabric, Add	52.03	
		For 1-3/4" Mesh Fabric, Add	32.33	
		For 2-1/8" Mesh Fabric, Deduct	-16.17	
		For Gate With Single Barb Wire Arm, Add	20.44	
		For Gate With Double Barb Wire Arm, Add	29.73	
32 31 13 13-0493	EA	4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	351.50	34.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.46	
		For 1" Mesh Fabric, Add	107.78	
		For 1-1/4" Mesh Fabric, Add	69.38	
		For 1-3/4" Mesh Fabric, Add	43.11	
		For 2-1/8" Mesh Fabric, Deduct	-21.56	
		For Gate With Single Barb Wire Arm, Add	27.25	
		For Gate With Double Barb Wire Arm, Add	39.64	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0494	EA	5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	392.79	34.55
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.20	
			For 1" Mesh Fabric, Add	125.74	
			For 1-1/4" Mesh Fabric, Add	80.94	
			For 1-3/4" Mesh Fabric, Add	50.30	
			For 2-1/8" Mesh Fabric, Deduct	-25.15	
			For Gate With Single Barb Wire Arm, Add	31.80	
			For Gate With Double Barb Wire Arm, Add	46.25	
32 31 13	13-0495	EA	6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	461.06	43.56
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.94	
			For 1" Mesh Fabric, Add	143.71	
			For 1-1/4" Mesh Fabric, Add	92.50	
			For 1-3/4" Mesh Fabric, Add	57.48	
			For 2-1/8" Mesh Fabric, Deduct	-28.74	
			For Gate With Single Barb Wire Arm, Add	36.34	
			For Gate With Double Barb Wire Arm, Add	52.86	
32 31 13	13-0496	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	529.33	52.49
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.69	
			For 1" Mesh Fabric, Add	161.67	
			For 1-1/4" Mesh Fabric, Add	104.06	
			For 1-3/4" Mesh Fabric, Add	64.67	
			For 2-1/8" Mesh Fabric, Deduct	-32.33	
			For Gate With Single Barb Wire Arm, Add	40.88	
			For Gate With Double Barb Wire Arm, Add	59.47	
32 31 13	13-0497	EA	8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	596.55	61.10
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.43	
			For 1" Mesh Fabric, Add	179.63	
			For 1-1/4" Mesh Fabric, Add	115.63	
			For 1-3/4" Mesh Fabric, Add	71.85	
			For 2-1/8" Mesh Fabric, Deduct	-35.93	
			For Gate With Single Barb Wire Arm, Add	45.42	
			For Gate With Double Barb Wire Arm, Add	66.07	
32 31 13	13-0498	EA	9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	664.81	70.12
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.17	
			For 1" Mesh Fabric, Add	197.59	
			For 1-1/4" Mesh Fabric, Add	127.19	
			For 1-3/4" Mesh Fabric, Add	79.04	
			For 2-1/8" Mesh Fabric, Deduct	-39.52	
			For Gate With Single Barb Wire Arm, Add	49.97	
			For Gate With Double Barb Wire Arm, Add	72.68	
32 31 13	13-0499	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	733.07	79.14
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-92.91	
			For 1" Mesh Fabric, Add	215.56	
			For 1-1/4" Mesh Fabric, Add	138.75	
			For 1-3/4" Mesh Fabric, Add	86.22	
			For 2-1/8" Mesh Fabric, Deduct	-43.11	
			For Gate With Single Barb Wire Arm, Add	54.51	
			For Gate With Double Barb Wire Arm, Add	79.29	
32 31 13	13-0500	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,025.29	93.88
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.37	
			For 1" Mesh Fabric, Add	323.34	
			For 1-1/4" Mesh Fabric, Add	208.12	
			For 1-3/4" Mesh Fabric, Add	129.33	
			For 2-1/8" Mesh Fabric, Deduct	-64.67	
			For Gate With Single Barb Wire Arm, Add	81.76	
			For Gate With Double Barb Wire Arm, Add	118.93	
32 31 13	13-0501	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,195.64	101.16
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.24	
			For 1" Mesh Fabric, Add	388.00	
			For 1-1/4" Mesh Fabric, Add	249.75	
			For 1-3/4" Mesh Fabric, Add	155.20	
			For 2-1/8" Mesh Fabric, Deduct	-77.60	
			For Gate With Single Barb Wire Arm, Add	98.12	
			For Gate With Double Barb Wire Arm, Add	142.71	
32 31 13	13-0502	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,369.61	109.55
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-195.12	
			For 1" Mesh Fabric, Add	452.67	
			For 1-1/4" Mesh Fabric, Add	291.37	
			For 1-3/4" Mesh Fabric, Add	181.07	
			For 2-1/8" Mesh Fabric, Deduct	-90.53	
			For Gate With Single Barb Wire Arm, Add	114.47	
			For Gate With Double Barb Wire Arm, Add	166.50	
32 31 13	13-0503	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,548.17	119.54
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-222.99	
			For 1" Mesh Fabric, Add	517.34	
			For 1-1/4" Mesh Fabric, Add	333.00	
			For 1-3/4" Mesh Fabric, Add	206.93	
			For 2-1/8" Mesh Fabric, Deduct	-103.47	
			For Gate With Single Barb Wire Arm, Add	130.82	
			For Gate With Double Barb Wire Arm, Add	190.28	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0504	EA	18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,732.73	131.51
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-250.86	
		For 1" Mesh Fabric, Add	582.00	
		For 1-1/4" Mesh Fabric, Add	374.62	
		For 1-3/4" Mesh Fabric, Add	232.80	
		For 2-1/8" Mesh Fabric, Deduct	-116.40	
		For Gate With Single Barb Wire Arm, Add	147.17	
		For Gate With Double Barb Wire Arm, Add	214.07	
32 31 13 13-0505	EA	20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,925.26	146.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-278.74	
		For 1" Mesh Fabric, Add	646.67	
		For 1-1/4" Mesh Fabric, Add	416.25	
		For 1-3/4" Mesh Fabric, Add	258.67	
		For 2-1/8" Mesh Fabric, Deduct	-129.33	
		For Gate With Single Barb Wire Arm, Add	163.53	
		For Gate With Double Barb Wire Arm, Add	237.86	
32 31 13 13-0506	EA	22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,128.75	164.33
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-306.61	
		For 1" Mesh Fabric, Add	711.34	
		For 1-1/4" Mesh Fabric, Add	457.87	
		For 1-3/4" Mesh Fabric, Add	284.54	
		For 2-1/8" Mesh Fabric, Deduct	-142.27	
		For Gate With Single Barb Wire Arm, Add	179.88	
		For Gate With Double Barb Wire Arm, Add	261.64	
32 31 13 13-0507	EA	24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,347.91	187.77
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-334.49	
		For 1" Mesh Fabric, Add	776.01	
		For 1-1/4" Mesh Fabric, Add	499.50	
		For 1-3/4" Mesh Fabric, Add	310.40	
		For 2-1/8" Mesh Fabric, Deduct	-155.20	
		For Gate With Single Barb Wire Arm, Add	196.23	
		For Gate With Double Barb Wire Arm, Add	285.43	
32 31 13 13-0508	EA	26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,590.56	219.11
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-362.36	
		For 1" Mesh Fabric, Add	840.67	
		For 1-1/4" Mesh Fabric, Add	541.12	
		For 1-3/4" Mesh Fabric, Add	336.27	
		For 2-1/8" Mesh Fabric, Deduct	-168.13	
		For Gate With Single Barb Wire Arm, Add	212.58	
		For Gate With Double Barb Wire Arm, Add	309.21	
32 31 13 13-0509	EA	28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,870.82	262.91
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-390.23	
		For 1" Mesh Fabric, Add	905.34	
		For 1-1/4" Mesh Fabric, Add	582.75	
		For 1-3/4" Mesh Fabric, Add	362.14	
		For 2-1/8" Mesh Fabric, Deduct	-181.07	
		For Gate With Single Barb Wire Arm, Add	228.94	
		For Gate With Double Barb Wire Arm, Add	333.00	
32 31 13 13-0510	EA	30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,216.87	328.66
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-418.11	
		For 1" Mesh Fabric, Add	970.01	
		For 1-1/4" Mesh Fabric, Add	624.37	
		For 1-3/4" Mesh Fabric, Add	388.00	
		For 2-1/8" Mesh Fabric, Deduct	-194.00	
		For Gate With Single Barb Wire Arm, Add	245.29	
		For Gate With Double Barb Wire Arm, Add	356.78	
32 31 13 13-0511		10' Fence Height (32 31 13 13-0410)		
32 31 13 13-0512	EA	3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	330.81	38.38
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.42	
		For 1" Mesh Fabric, Add	93.77	
		For 1-1/4" Mesh Fabric, Add	60.36	
		For 1-3/4" Mesh Fabric, Add	37.51	
		For 2-1/8" Mesh Fabric, Deduct	-18.75	
		For Gate With Single Barb Wire Arm, Add	23.71	
		For Gate With Double Barb Wire Arm, Add	34.49	
32 31 13 13-0513	EA	4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	402.67	38.38
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.89	
		For 1" Mesh Fabric, Add	125.03	
		For 1-1/4" Mesh Fabric, Add	80.48	
		For 1-3/4" Mesh Fabric, Add	50.01	
		For 2-1/8" Mesh Fabric, Deduct	-25.01	
		For Gate With Single Barb Wire Arm, Add	31.62	
		For Gate With Double Barb Wire Arm, Add	45.99	
32 31 13 13-0514	EA	5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm.....	455.65	40.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.87	
		For 1" Mesh Fabric, Add	145.87	
		For 1-1/4" Mesh Fabric, Add	93.89	
		For 1-3/4" Mesh Fabric, Add	58.35	
		For 2-1/8" Mesh Fabric, Deduct	-29.17	
		For Gate With Single Barb Wire Arm, Add	36.89	
		For Gate With Double Barb Wire Arm, Add	53.65	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0515	EA	6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	532.59	49.79
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.86	
			For 1" Mesh Fabric, Add	166.71	
			For 1-1/4" Mesh Fabric, Add	107.30	
			For 1-3/4" Mesh Fabric, Add	66.68	
			For 2-1/8" Mesh Fabric, Deduct	-33.34	
			For Gate With Single Barb Wire Arm, Add	42.16	
			For Gate With Double Barb Wire Arm, Add	61.32	
32 31 13	13-0516	EA	7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	608.51	59.02
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.84	
			For 1" Mesh Fabric, Add	187.54	
			For 1-1/4" Mesh Fabric, Add	120.72	
			For 1-3/4" Mesh Fabric, Add	75.02	
			For 2-1/8" Mesh Fabric, Deduct	-37.51	
			For Gate With Single Barb Wire Arm, Add	47.42	
			For Gate With Double Barb Wire Arm, Add	68.98	
32 31 13	13-0517	EA	8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	685.46	68.78
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.82	
			For 1" Mesh Fabric, Add	208.39	
			For 1-1/4" Mesh Fabric, Add	134.13	
			For 1-3/4" Mesh Fabric, Add	83.35	
			For 2-1/8" Mesh Fabric, Deduct	-41.68	
			For Gate With Single Barb Wire Arm, Add	52.70	
			For Gate With Double Barb Wire Arm, Add	76.65	
32 31 13	13-0518	EA	9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	761.37	78.11
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.80	
			For 1" Mesh Fabric, Add	229.22	
			For 1-1/4" Mesh Fabric, Add	147.55	
			For 1-3/4" Mesh Fabric, Add	91.69	
			For 2-1/8" Mesh Fabric, Deduct	-45.84	
			For Gate With Single Barb Wire Arm, Add	57.96	
			For Gate With Double Barb Wire Arm, Add	84.31	
32 31 13	13-0519	EA	10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	838.33	87.76
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-107.78	
			For 1" Mesh Fabric, Add	250.06	
			For 1-1/4" Mesh Fabric, Add	160.96	
			For 1-3/4" Mesh Fabric, Add	100.02	
			For 2-1/8" Mesh Fabric, Deduct	-50.01	
			For Gate With Single Barb Wire Arm, Add	63.23	
			For Gate With Double Barb Wire Arm, Add	91.98	
32 31 13	13-0520	EA	10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,175.60	104.38
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.68	
			For 1" Mesh Fabric, Add	375.09	
			For 1-1/4" Mesh Fabric, Add	241.44	
			For 1-3/4" Mesh Fabric, Add	150.03	
			For 2-1/8" Mesh Fabric, Deduct	-75.02	
			For Gate With Single Barb Wire Arm, Add	94.85	
			For Gate With Double Barb Wire Arm, Add	137.96	
32 31 13	13-0521	EA	12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,372.03	112.27
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-194.01	
			For 1" Mesh Fabric, Add	450.10	
			For 1-1/4" Mesh Fabric, Add	289.72	
			For 1-3/4" Mesh Fabric, Add	180.04	
			For 2-1/8" Mesh Fabric, Deduct	-90.02	
			For Gate With Single Barb Wire Arm, Add	113.82	
			For Gate With Double Barb Wire Arm, Add	165.56	
32 31 13	13-0522	EA	14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,572.72	121.77
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.34	
			For 1" Mesh Fabric, Add	525.12	
			For 1-1/4" Mesh Fabric, Add	338.01	
			For 1-3/4" Mesh Fabric, Add	210.05	
			For 2-1/8" Mesh Fabric, Deduct	-105.02	
			For Gate With Single Barb Wire Arm, Add	132.79	
			For Gate With Double Barb Wire Arm, Add	193.15	
32 31 13	13-0523	EA	16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,778.24	132.75
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.68	
			For 1" Mesh Fabric, Add	600.13	
			For 1-1/4" Mesh Fabric, Add	386.29	
			For 1-3/4" Mesh Fabric, Add	240.05	
			For 2-1/8" Mesh Fabric, Deduct	-120.03	
			For Gate With Single Barb Wire Arm, Add	151.76	
			For Gate With Double Barb Wire Arm, Add	220.74	
32 31 13	13-0524	EA	18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,990.74	146.07
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-291.02	
			For 1" Mesh Fabric, Add	675.15	
			For 1-1/4" Mesh Fabric, Add	434.58	
			For 1-3/4" Mesh Fabric, Add	270.06	
			For 2-1/8" Mesh Fabric, Deduct	-135.03	
			For Gate With Single Barb Wire Arm, Add	170.73	
			For Gate With Double Barb Wire Arm, Add	248.33	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0525	EA	20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,211.68 -323.35 750.17 482.87 300.07 -150.03 189.70 275.92	162.24
32 31 13	13-0526	EA	22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,445.30 -355.68 825.19 531.15 330.07 -165.04 208.67 303.52	182.59
32 31 13	13-0527	EA	24 Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,695.69 -388.02 900.21 579.44 360.08 -180.04 227.64 331.11	208.49
32 31 13	13-0528	EA	26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,972.98 -420.35 975.22 627.73 390.09 -195.04 246.61 358.70	243.42
32 31 13	13-0529	EA	28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,290.87 -452.69 1,050.24 676.02 420.10 -210.05 265.58 386.29	291.89
32 31 13	13-0530	EA	30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,683.44 -485.03 1,125.26 724.30 450.10 -225.05 284.55 413.89	365.18
32 31 13 13-0531 12' Fence Height (32 31 13 13-0410)					
32 31 13	13-0532	EA	3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	428.69 -56.37 130.77 84.18 52.31 -26.15 33.07 48.10	42.63
32 31 13	13-0533	EA	4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	528.62 -75.11 174.24 112.16 69.70 -34.85 44.06 64.09	42.63
32 31 13	13-0534	EA	5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	607.66 -89.04 206.58 132.97 82.63 -41.32 52.24 75.98	44.19
32 31 13	13-0535	EA	6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	701.77 -100.66 233.53 150.32 93.41 -46.71 59.05 85.89	54.87

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 13 13-0536	EA	7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	802.75		65.66
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.56		
		For 1" Mesh Fabric, Add	263.46		
		For 1-1/4" Mesh Fabric, Add	169.58		
		For 1-3/4" Mesh Fabric, Add	105.38		
		For 2-1/8" Mesh Fabric, Deduct	-52.69		
		For Gate With Single Barb Wire Arm, Add	66.62		
		For Gate With Double Barb Wire Arm, Add	96.91		
32 31 13 13-0537	EA	8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	902.69		76.03
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.47		
		For 1" Mesh Fabric, Add	293.40		
		For 1-1/4" Mesh Fabric, Add	188.85		
		For 1-3/4" Mesh Fabric, Add	117.36		
		For 2-1/8" Mesh Fabric, Deduct	-58.68		
		For Gate With Single Barb Wire Arm, Add	74.19		
		For Gate With Double Barb Wire Arm, Add	107.92		
32 31 13 13-0538	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,003.67		86.72
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.37		
		For 1" Mesh Fabric, Add	323.34		
		For 1-1/4" Mesh Fabric, Add	208.13		
		For 1-3/4" Mesh Fabric, Add	129.34		
		For 2-1/8" Mesh Fabric, Deduct	-64.67		
		For Gate With Single Barb Wire Arm, Add	81.76		
		For Gate With Double Barb Wire Arm, Add	118.93		
32 31 13 13-0539	EA	10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,097.78		97.40
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-150.98		
		For 1" Mesh Fabric, Add	350.28		
		For 1-1/4" Mesh Fabric, Add	225.47		
		For 1-3/4" Mesh Fabric, Add	140.11		
		For 2-1/8" Mesh Fabric, Deduct	-70.06		
		For Gate With Single Barb Wire Arm, Add	88.58		
		For Gate With Double Barb Wire Arm, Add	128.84		
32 31 13 13-0540	EA	10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,555.49		115.97
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.40		
		For 1" Mesh Fabric, Add	525.25		
		For 1-1/4" Mesh Fabric, Add	338.09		
		For 1-3/4" Mesh Fabric, Add	210.10		
		For 2-1/8" Mesh Fabric, Deduct	-105.05		
		For Gate With Single Barb Wire Arm, Add	132.82		
		For Gate With Double Barb Wire Arm, Add	193.20		
32 31 13 13-0541	EA	12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,862.98		124.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.05		
		For 1" Mesh Fabric, Add	647.40		
		For 1-1/4" Mesh Fabric, Add	416.72		
		For 1-3/4" Mesh Fabric, Add	258.96		
		For 2-1/8" Mesh Fabric, Deduct	-129.48		
		For Gate With Single Barb Wire Arm, Add	163.71		
		For Gate With Double Barb Wire Arm, Add	238.12		
32 31 13 13-0542	EA	14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,143.85		135.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-325.82		
		For 1" Mesh Fabric, Add	755.90		
		For 1-1/4" Mesh Fabric, Add	486.55		
		For 1-3/4" Mesh Fabric, Add	302.36		
		For 2-1/8" Mesh Fabric, Deduct	-151.18		
		For Gate With Single Barb Wire Arm, Add	191.15		
		For Gate With Double Barb Wire Arm, Add	278.03		
32 31 13 13-0543	EA	16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,428.44		147.43
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-372.27		
		For 1" Mesh Fabric, Add	863.68		
		For 1-1/4" Mesh Fabric, Add	555.93		
		For 1-3/4" Mesh Fabric, Add	345.47		
		For 2-1/8" Mesh Fabric, Deduct	-172.74		
		For Gate With Single Barb Wire Arm, Add	218.40		
		For Gate With Double Barb Wire Arm, Add	317.67		
32 31 13 13-0544	EA	18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,717.32		162.36
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-418.11		
		For 1" Mesh Fabric, Add	970.02		
		For 1-1/4" Mesh Fabric, Add	624.38		
		For 1-3/4" Mesh Fabric, Add	388.01		
		For 2-1/8" Mesh Fabric, Deduct	-194.00		
		For Gate With Single Barb Wire Arm, Add	245.29		
		For Gate With Double Barb Wire Arm, Add	356.79		
32 31 13 13-0545	EA	20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,018.80		180.25
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-464.57		
		For 1" Mesh Fabric, Add	1,077.80		
		For 1-1/4" Mesh Fabric, Add	693.76		
		For 1-3/4" Mesh Fabric, Add	431.12		
		For 2-1/8" Mesh Fabric, Deduct	-215.56		
		For Gate With Single Barb Wire Arm, Add	272.55		
		For Gate With Double Barb Wire Arm, Add	396.43		



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0546	EA	22'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	3,334.72 -511.03 1,185.58 763.13 474.23 -237.12 299.80 436.08	202.83
32 31 13 13-0547	EA	24'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	3,669.07 -557.48 1,293.36 832.51 517.34 -258.67 327.06 475.72	231.69
32 31 13 13-0548	EA	26'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	4,041.59 -605.49 1,404.73 904.20 561.89 -280.95 355.22 516.68	270.56
32 31 13 13-0549	EA	28'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	4,450.96 -651.95 1,512.51 973.57 605.00 -302.50 382.47 556.33	324.34
32 31 13 13-0550	EA	30'	Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i>	4,943.29 -698.40 1,620.29 1,042.95 648.12 -324.06 409.73 595.97	405.77
32 31 13 13-0551			Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0268) Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0647 for additional gate accessories, 32 31 13 13-0743 for gate replacement parts.		
32 31 13 13-0552			4' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13 13-0553	EA	10'	Long x 4' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,258.97 1,069.22 688.23 427.69 -213.84 270.38 737.39	400.47
32 31 13 13-0554	EA	12'	Long x 4' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,916.44 1,283.07 825.88 513.23 -256.61 324.45 884.87	483.50
32 31 13 13-0555	EA	14'	Long x 4' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,569.40 1,496.91 963.53 598.77 -299.38 378.53 1,032.35	564.05
32 31 13 13-0556	EA	16'	Long x 4' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,229.37 1,710.76 1,101.18 684.30 -342.15 432.61 1,179.83	648.32
32 31 13 13-0557	EA	18'	Long x 4' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,883.10 1,924.61 1,238.83 769.84 -384.92 486.68 1,327.31	729.37

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0558	EA	20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	6,521.86	802.90
		For 1" Mesh Fabric, Add	2,138.45	
		For 1-1/4" Mesh Fabric, Add	1,376.47	
		For 1-3/4" Mesh Fabric, Add	855.38	
		For 2-1/8" Mesh Fabric, Deduct	-427.69	
		For Gate With Barb Wire Arm, Add	540.76	
		For Vinyl Coated, Add	1,474.79	
32 31 13 13-0559	EA	24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	7,789.60	966.86
		For 1" Mesh Fabric, Add	2,547.31	
		For 1-1/4" Mesh Fabric, Add	1,639.65	
		For 1-3/4" Mesh Fabric, Add	1,018.92	
		For 2-1/8" Mesh Fabric, Deduct	-509.46	
		For Gate With Barb Wire Arm, Add	644.15	
		For Vinyl Coated, Add	1,756.76	
32 31 13 13-0560	EA	30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	11,024.00	1,825.03
		For 1" Mesh Fabric, Add	3,207.67	
		For 1-1/4" Mesh Fabric, Add	2,064.71	
		For 1-3/4" Mesh Fabric, Add	1,283.07	
		For 2-1/8" Mesh Fabric, Deduct	-641.53	
		For Gate With Barb Wire Arm, Add	811.14	
		For Vinyl Coated, Add	2,212.19	
32 31 13 13-0561	EA	40' Long x 4' High Chain Link Galvanized Steel Sliding Gate	14,698.66	2,433.38
		For 1" Mesh Fabric, Add	4,276.89	
		For 1-1/4" Mesh Fabric, Add	2,752.94	
		For 1-3/4" Mesh Fabric, Add	1,710.76	
		For 2-1/8" Mesh Fabric, Deduct	-855.38	
		For Gate With Barb Wire Arm, Add	1,081.51	
		For Vinyl Coated, Add	2,949.58	
32 31 13 13-0562		5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)	3,401.95	435.87
32 31 13 13-0563	EA	10' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,401.95	435.87
		For 1" Mesh Fabric, Add	1,100.65	
		For 1-1/4" Mesh Fabric, Add	708.46	
		For 1-3/4" Mesh Fabric, Add	440.26	
		For 2-1/8" Mesh Fabric, Deduct	-220.13	
		For Gate With Barb Wire Arm, Add	278.32	
		For Vinyl Coated, Add	759.07	
32 31 13 13-0564	EA	12' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,081.13	522.47
		For 1" Mesh Fabric, Add	1,320.78	
		For 1-1/4" Mesh Fabric, Add	850.16	
		For 1-3/4" Mesh Fabric, Add	528.31	
		For 2-1/8" Mesh Fabric, Deduct	-264.16	
		For Gate With Barb Wire Arm, Add	333.99	
		For Vinyl Coated, Add	910.88	
32 31 13 13-0565	EA	14' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,761.11	609.46
		For 1" Mesh Fabric, Add	1,540.91	
		For 1-1/4" Mesh Fabric, Add	991.85	
		For 1-3/4" Mesh Fabric, Add	616.36	
		For 2-1/8" Mesh Fabric, Deduct	-308.18	
		For Gate With Barb Wire Arm, Add	389.66	
		For Vinyl Coated, Add	1,062.70	
32 31 13 13-0566	EA	16' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,441.61	696.67
		For 1" Mesh Fabric, Add	1,761.04	
		For 1-1/4" Mesh Fabric, Add	1,133.54	
		For 1-3/4" Mesh Fabric, Add	704.42	
		For 2-1/8" Mesh Fabric, Deduct	-352.21	
		For Gate With Barb Wire Arm, Add	445.32	
		For Vinyl Coated, Add	1,214.51	
32 31 13 13-0567	EA	18' Long x 5' High Chain Link Galvanized Steel Sliding Gate	6,121.52	783.53
		For 1" Mesh Fabric, Add	1,981.16	
		For 1-1/4" Mesh Fabric, Add	1,275.23	
		For 1-3/4" Mesh Fabric, Add	792.47	
		For 2-1/8" Mesh Fabric, Deduct	-396.23	
		For Gate With Barb Wire Arm, Add	500.98	
		For Vinyl Coated, Add	1,366.32	
32 31 13 13-0568	EA	20' Long x 5' High Chain Link Galvanized Steel Sliding Gate	6,801.74	870.64
		For 1" Mesh Fabric, Add	2,201.29	
		For 1-1/4" Mesh Fabric, Add	1,416.92	
		For 1-3/4" Mesh Fabric, Add	880.52	
		For 2-1/8" Mesh Fabric, Deduct	-440.26	
		For Gate With Barb Wire Arm, Add	556.65	
		For Vinyl Coated, Add	1,518.13	
32 31 13 13-0569	EA	24' Long x 5' High Chain Link Galvanized Steel Sliding Gate	8,119.92	1,045.94
		For 1" Mesh Fabric, Add	2,622.18	
		For 1-1/4" Mesh Fabric, Add	1,687.84	
		For 1-3/4" Mesh Fabric, Add	1,048.87	
		For 2-1/8" Mesh Fabric, Deduct	-524.44	
		For Gate With Barb Wire Arm, Add	663.08	
		For Vinyl Coated, Add	1,808.40	
32 31 13 13-0570	EA	30' Long x 5' High Chain Link Galvanized Steel Sliding Gate	10,203.09	1,306.25
		For 1" Mesh Fabric, Add	3,301.94	
		For 1-1/4" Mesh Fabric, Add	2,125.39	
		For 1-3/4" Mesh Fabric, Add	1,320.78	
		For 2-1/8" Mesh Fabric, Deduct	-660.39	
		For Gate With Barb Wire Arm, Add	834.97	
		For Vinyl Coated, Add	2,277.20	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 31 13 13-0571	EA 40' Long x 5' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	13,603.50 4,402.59 2,833.85 1,761.03 -880.52 1,113.30 3,036.27		1,741.26
32 31 13 13-0572	6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)			
32 31 13 13-0573	EA 10' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,602.71 1,122.64 722.62 449.06 -224.53 283.89 774.24		511.00
32 31 13 13-0574	EA 12' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	4,319.66 1,347.17 867.15 538.87 -269.43 340.66 929.09		611.30
32 31 13 13-0575	EA 14' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,039.37 1,571.70 1,011.67 628.68 -314.34 397.44 1,083.93		713.08
32 31 13 13-0576	EA 16' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	5,759.55 1,796.23 1,156.20 718.49 -359.25 454.22 1,238.78		815.12
32 31 13 13-0577	EA 18' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	6,479.27 2,020.76 1,300.72 808.30 -404.15 511.00 1,393.63		916.89
32 31 13 13-0578	EA 20' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	7,205.85 2,245.29 1,445.25 898.12 -449.06 567.77 1,548.48		1,022.13
32 31 13 13-0579	EA 24' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	8,593.89 2,674.58 1,721.57 1,069.83 -534.92 676.33 1,844.54		1,222.73
32 31 13 13-0580	EA 30' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	10,799.91 3,367.94 2,167.87 1,347.17 -673.59 851.66 2,322.71		1,528.81
32 31 13 13-0581	EA 40' Long x 6' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	14,398.20 4,490.58 2,890.49 1,796.23 -898.12 1,135.55 3,096.95		2,037.48
32 31 13 13-0582	7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)			
32 31 13 13-0583	EA 10' Long x 7' High Chain Link Galvanized Steel Sliding Gate For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Barb Wire Arm, Add For Vinyl Coated, Add	3,821.88 1,166.64 750.94 466.66 -233.33 295.01 804.58		569.97

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0584 EA 12' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,585.40	683.48
For 1" Mesh Fabric, Add	1,400.01	
For 1-1/4" Mesh Fabric, Add	901.15	
For 1-3/4" Mesh Fabric, Add	560.00	
For 2-1/8" Mesh Fabric, Deduct	-280.00	
For Gate With Barb Wire Arm, Add	354.03	
For Vinyl Coated, Add	965.52	
32 31 13 13-0585 EA 14' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,350.70	797.97
For 1" Mesh Fabric, Add	1,633.29	
For 1-1/4" Mesh Fabric, Add	1,051.31	
For 1-3/4" Mesh Fabric, Add	653.32	
For 2-1/8" Mesh Fabric, Deduct	-326.66	
For Gate With Barb Wire Arm, Add	413.02	
For Vinyl Coated, Add	1,126.41	
32 31 13 13-0586 EA 16' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,114.09	911.47
For 1" Mesh Fabric, Add	1,866.62	
For 1-1/4" Mesh Fabric, Add	1,201.51	
For 1-3/4" Mesh Fabric, Add	746.65	
For 2-1/8" Mesh Fabric, Deduct	-373.32	
For Gate With Barb Wire Arm, Add	472.02	
For Vinyl Coated, Add	1,287.33	
32 31 13 13-0587 EA 18' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,878.53	1,025.58
For 1" Mesh Fabric, Add	2,099.95	
For 1-1/4" Mesh Fabric, Add	1,351.69	
For 1-3/4" Mesh Fabric, Add	839.98	
For 2-1/8" Mesh Fabric, Deduct	-419.99	
For Gate With Barb Wire Arm, Add	531.02	
For Vinyl Coated, Add	1,448.24	
32 31 13 13-0588 EA 20' Long x 7' High Chain Link Galvanized Steel Sliding Gate	7,642.20	1,139.21
For 1" Mesh Fabric, Add	2,333.28	
For 1-1/4" Mesh Fabric, Add	1,501.88	
For 1-3/4" Mesh Fabric, Add	933.31	
For 2-1/8" Mesh Fabric, Deduct	-466.66	
For Gate With Barb Wire Arm, Add	590.03	
For Vinyl Coated, Add	1,609.16	
32 31 13 13-0589 EA 24' Long x 7' High Chain Link Galvanized Steel Sliding Gate	9,123.41	1,366.96
For 1" Mesh Fabric, Add	2,779.40	
For 1-1/4" Mesh Fabric, Add	1,789.04	
For 1-3/4" Mesh Fabric, Add	1,111.76	
For 2-1/8" Mesh Fabric, Deduct	-555.88	
For Gate With Barb Wire Arm, Add	702.84	
For Vinyl Coated, Add	1,916.83	
32 31 13 13-0590 EA 30' Long x 7' High Chain Link Galvanized Steel Sliding Gate	11,463.27	1,708.69
For 1" Mesh Fabric, Add	3,499.91	
For 1-1/4" Mesh Fabric, Add	2,252.82	
For 1-3/4" Mesh Fabric, Add	1,399.97	
For 2-1/8" Mesh Fabric, Deduct	-699.98	
For Gate With Barb Wire Arm, Add	885.04	
For Vinyl Coated, Add	2,413.73	
32 31 13 13-0591 EA 40' Long x 7' High Chain Link Galvanized Steel Sliding Gate	15,284.37	2,278.30
For 1" Mesh Fabric, Add	4,666.56	
For 1-1/4" Mesh Fabric, Add	3,003.76	
For 1-3/4" Mesh Fabric, Add	1,866.62	
For 2-1/8" Mesh Fabric, Deduct	-933.31	
For Gate With Barb Wire Arm, Add	1,180.05	
For Vinyl Coated, Add	3,218.32	
32 31 13 13-0592 8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13 13-0593 EA 10' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,996.35	617.47
For 1" Mesh Fabric, Add	1,201.21	
For 1-1/4" Mesh Fabric, Add	773.19	
For 1-3/4" Mesh Fabric, Add	480.48	
For 2-1/8" Mesh Fabric, Deduct	-240.24	
For Gate With Barb Wire Arm, Add	303.75	
For Vinyl Coated, Add	828.42	
32 31 13 13-0594 EA 12' Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,792.07	739.24
For 1" Mesh Fabric, Add	1,441.45	
For 1-1/4" Mesh Fabric, Add	927.83	
For 1-3/4" Mesh Fabric, Add	576.58	
For 2-1/8" Mesh Fabric, Deduct	-288.29	
For Gate With Barb Wire Arm, Add	364.50	
For Vinyl Coated, Add	994.10	
32 31 13 13-0595 EA 14' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,590.81	862.49
For 1" Mesh Fabric, Add	1,681.68	
For 1-1/4" Mesh Fabric, Add	1,082.46	
For 1-3/4" Mesh Fabric, Add	672.67	
For 2-1/8" Mesh Fabric, Deduct	-336.34	
For Gate With Barb Wire Arm, Add	425.25	
For Vinyl Coated, Add	1,159.78	
32 31 13 13-0596 EA 16' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,389.79	985.74
For 1" Mesh Fabric, Add	1,921.93	
For 1-1/4" Mesh Fabric, Add	1,237.10	
For 1-3/4" Mesh Fabric, Add	768.77	
For 2-1/8" Mesh Fabric, Deduct	-384.39	
For Gate With Barb Wire Arm, Add	486.00	
For Vinyl Coated, Add	1,325.47	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0597	EA	18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	7,187.41	1,108.49
			For 1" Mesh Fabric, Add	2,162.17	
			For 1-1/4" Mesh Fabric, Add	1,391.74	
			For 1-3/4" Mesh Fabric, Add	864.87	
			For 2-1/8" Mesh Fabric, Deduct	-432.43	
			For Gate With Barb Wire Arm, Add	546.76	
			For Vinyl Coated, Add	1,491.15	
32 31 13	13-0598	EA	20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	7,986.51	1,231.86
			For 1" Mesh Fabric, Add	2,402.41	
			For 1-1/4" Mesh Fabric, Add	1,546.38	
			For 1-3/4" Mesh Fabric, Add	960.96	
			For 2-1/8" Mesh Fabric, Deduct	-480.48	
			For Gate With Barb Wire Arm, Add	607.51	
			For Vinyl Coated, Add	1,656.83	
32 31 13	13-0599	EA	24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	9,535.50	1,478.36
			For 1" Mesh Fabric, Add	2,861.75	
			For 1-1/4" Mesh Fabric, Add	1,842.04	
			For 1-3/4" Mesh Fabric, Add	1,144.70	
			For 2-1/8" Mesh Fabric, Deduct	-572.35	
			For Gate With Barb Wire Arm, Add	723.66	
			For Vinyl Coated, Add	1,973.62	
32 31 13	13-0600	EA	30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	11,980.71	1,848.22
			For 1" Mesh Fabric, Add	3,603.62	
			For 1-1/4" Mesh Fabric, Add	2,319.57	
			For 1-3/4" Mesh Fabric, Add	1,441.45	
			For 2-1/8" Mesh Fabric, Deduct	-720.72	
			For Gate With Barb Wire Arm, Add	911.26	
			For Vinyl Coated, Add	2,485.26	
32 31 13	13-0601	EA	40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	15,970.58	2,462.50
			For 1" Mesh Fabric, Add	4,804.82	
			For 1-1/4" Mesh Fabric, Add	3,092.76	
			For 1-3/4" Mesh Fabric, Add	1,921.93	
			For 2-1/8" Mesh Fabric, Deduct	-960.96	
			For Gate With Barb Wire Arm, Add	1,215.01	
			For Vinyl Coated, Add	3,313.67	
32 31 13	13-0602		9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)		
32 31 13	13-0603	EA	10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,202.52	673.61
			For 1" Mesh Fabric, Add	1,242.06	
			For 1-1/4" Mesh Fabric, Add	799.48	
			For 1-3/4" Mesh Fabric, Add	496.82	
			For 2-1/8" Mesh Fabric, Deduct	-248.41	
			For Gate With Barb Wire Arm, Add	314.08	
			For Vinyl Coated, Add	856.59	
32 31 13	13-0604	EA	12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,038.01	805.86
			For 1" Mesh Fabric, Add	1,490.47	
			For 1-1/4" Mesh Fabric, Add	959.38	
			For 1-3/4" Mesh Fabric, Add	596.19	
			For 2-1/8" Mesh Fabric, Deduct	-298.09	
			For Gate With Barb Wire Arm, Add	376.90	
			For Vinyl Coated, Add	1,027.91	
32 31 13	13-0605	EA	14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,877.38	939.97
			For 1" Mesh Fabric, Add	1,738.89	
			For 1-1/4" Mesh Fabric, Add	1,119.28	
			For 1-3/4" Mesh Fabric, Add	695.55	
			For 2-1/8" Mesh Fabric, Deduct	-347.78	
			For Gate With Barb Wire Arm, Add	439.72	
			For Vinyl Coated, Add	1,199.23	
32 31 13	13-0606	EA	16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,717.81	1,074.68
			For 1" Mesh Fabric, Add	1,987.29	
			For 1-1/4" Mesh Fabric, Add	1,279.17	
			For 1-3/4" Mesh Fabric, Add	794.92	
			For 2-1/8" Mesh Fabric, Deduct	-397.46	
			For Gate With Barb Wire Arm, Add	502.53	
			For Vinyl Coated, Add	1,370.54	
32 31 13	13-0607	EA	18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,557.41	1,208.92
			For 1" Mesh Fabric, Add	2,235.70	
			For 1-1/4" Mesh Fabric, Add	1,439.07	
			For 1-3/4" Mesh Fabric, Add	894.28	
			For 2-1/8" Mesh Fabric, Deduct	-447.14	
			For Gate With Barb Wire Arm, Add	565.35	
			For Vinyl Coated, Add	1,541.87	
32 31 13	13-0608	EA	20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	8,396.98	1,343.14
			For 1" Mesh Fabric, Add	2,484.12	
			For 1-1/4" Mesh Fabric, Add	1,598.97	
			For 1-3/4" Mesh Fabric, Add	993.65	
			For 2-1/8" Mesh Fabric, Deduct	-496.82	
			For Gate With Barb Wire Arm, Add	628.17	
			For Vinyl Coated, Add	1,713.19	
32 31 13	13-0609	EA	24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	10,025.75	1,611.60
			For 1" Mesh Fabric, Add	2,959.07	
			For 1-1/4" Mesh Fabric, Add	1,904.69	
			For 1-3/4" Mesh Fabric, Add	1,183.63	
			For 2-1/8" Mesh Fabric, Deduct	-591.81	
			For Gate With Barb Wire Arm, Add	748.27	
			For Vinyl Coated, Add	2,040.74	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0610	EA		30' Long x 9' High Chain Link Galvanized Steel Sliding Gate	12,594.37	2,014.28
			For 1" Mesh Fabric, Add	3,726.18	
			For 1-1/4" Mesh Fabric, Add	2,398.46	
			For 1-3/4" Mesh Fabric, Add	1,490.47	
			For 2-1/8" Mesh Fabric, Deduct	-745.24	
			For Gate With Barb Wire Arm, Add	942.25	
			For Vinyl Coated, Add	2,569.78	
32 31 13 13-0611	EA		40' Long x 9' High Chain Link Galvanized Steel Sliding Gate	16,796.90	2,687.89
			For 1" Mesh Fabric, Add	4,968.24	
			For 1-1/4" Mesh Fabric, Add	3,197.95	
			For 1-3/4" Mesh Fabric, Add	1,987.30	
			For 2-1/8" Mesh Fabric, Deduct	-993.65	
			For Gate With Barb Wire Arm, Add	1,256.34	
			For Vinyl Coated, Add	3,426.37	
32 31 13 13-0612 10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0551)					
32 31 13 13-0613	EA		10' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,460.05	740.97
			For 1" Mesh Fabric, Add	1,295.48	
			For 1-1/4" Mesh Fabric, Add	833.87	
			For 1-3/4" Mesh Fabric, Add	518.19	
			For 2-1/8" Mesh Fabric, Deduct	-259.10	
			For Gate With Barb Wire Arm, Add	327.59	
			For Vinyl Coated, Add	893.43	
32 31 13 13-0614	EA		12' Long x 10' High Chain Link Galvanized Steel Sliding Gate	5,352.07	889.14
			For 1" Mesh Fabric, Add	1,554.58	
			For 1-1/4" Mesh Fabric, Add	1,000.65	
			For 1-3/4" Mesh Fabric, Add	621.83	
			For 2-1/8" Mesh Fabric, Deduct	-310.92	
			For Gate With Barb Wire Arm, Add	393.11	
			For Vinyl Coated, Add	1,072.12	
32 31 13 13-0615	EA		14' Long x 10' High Chain Link Galvanized Steel Sliding Gate	6,244.58	1,037.55
			For 1" Mesh Fabric, Add	1,813.68	
			For 1-1/4" Mesh Fabric, Add	1,167.42	
			For 1-3/4" Mesh Fabric, Add	725.47	
			For 2-1/8" Mesh Fabric, Deduct	-362.74	
			For Gate With Barb Wire Arm, Add	458.63	
			For Vinyl Coated, Add	1,250.81	
32 31 13 13-0616	EA		16' Long x 10' High Chain Link Galvanized Steel Sliding Gate	7,136.38	1,185.72
			For 1" Mesh Fabric, Add	2,072.77	
			For 1-1/4" Mesh Fabric, Add	1,334.20	
			For 1-3/4" Mesh Fabric, Add	829.11	
			For 2-1/8" Mesh Fabric, Deduct	-414.55	
			For Gate With Barb Wire Arm, Add	524.15	
			For Vinyl Coated, Add	1,429.50	
32 31 13 13-0617	EA		18' Long x 10' High Chain Link Galvanized Steel Sliding Gate	8,028.09	1,333.77
			For 1" Mesh Fabric, Add	2,331.86	
			For 1-1/4" Mesh Fabric, Add	1,500.97	
			For 1-3/4" Mesh Fabric, Add	932.74	
			For 2-1/8" Mesh Fabric, Deduct	-466.37	
			For Gate With Barb Wire Arm, Add	589.67	
			For Vinyl Coated, Add	1,608.18	
32 31 13 13-0618	EA		20' Long x 10' High Chain Link Galvanized Steel Sliding Gate	8,920.11	1,481.94
			For 1" Mesh Fabric, Add	2,590.96	
			For 1-1/4" Mesh Fabric, Add	1,667.74	
			For 1-3/4" Mesh Fabric, Add	1,036.38	
			For 2-1/8" Mesh Fabric, Deduct	-518.19	
			For Gate With Barb Wire Arm, Add	655.19	
			For Vinyl Coated, Add	1,786.87	
32 31 13 13-0619	EA		24' Long x 10' High Chain Link Galvanized Steel Sliding Gate	10,652.99	1,779.02
			For 1" Mesh Fabric, Add	3,086.35	
			For 1-1/4" Mesh Fabric, Add	1,986.61	
			For 1-3/4" Mesh Fabric, Add	1,234.54	
			For 2-1/8" Mesh Fabric, Deduct	-617.27	
			For Gate With Barb Wire Arm, Add	780.46	
			For Vinyl Coated, Add	2,128.52	
32 31 13 13-0620	EA		30' Long x 10' High Chain Link Galvanized Steel Sliding Gate	13,380.16	2,222.91
			For 1" Mesh Fabric, Add	3,886.44	
			For 1-1/4" Mesh Fabric, Add	2,501.62	
			For 1-3/4" Mesh Fabric, Add	1,554.58	
			For 2-1/8" Mesh Fabric, Deduct	-777.29	
			For Gate With Barb Wire Arm, Add	982.78	
			For Vinyl Coated, Add	2,680.30	
32 31 13 13-0621	EA		40' Long x 10' High Chain Link Galvanized Steel Sliding Gate	17,836.67	2,962.14
			For 1" Mesh Fabric, Add	5,181.92	
			For 1-1/4" Mesh Fabric, Add	3,335.49	
			For 1-3/4" Mesh Fabric, Add	2,072.77	
			For 2-1/8" Mesh Fabric, Deduct	-1,036.38	
			For Gate With Barb Wire Arm, Add	1,310.37	
			For Vinyl Coated, Add	3,573.74	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0622			Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller ⁽³²⁾ 31 13 13-0268 Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0021 for gate operators.		
32 31 13 13-0623	EA		5' High x 10' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	8,408.53 3,228.38 2,078.04 1,291.35 -645.68 816.37 1,187.45 3,562.35 1,558.53 2,226.47	493.49
32 31 13 13-0624	EA		5' High x 12' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	9,160.49 3,448.14 2,219.50 1,379.26 -689.63 871.94 1,268.28 3,804.85 1,664.62 2,378.03	616.86
32 31 13 13-0625	EA		5' High x 15' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	9,919.38 3,670.93 2,362.90 1,468.37 -734.19 928.28 1,350.23 4,050.68 1,772.17 2,531.68	740.23
32 31 13 13-0626	EA		5' High x 20' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	11,538.05 4,160.39 2,677.95 1,664.16 -832.08 1,052.05 1,530.26 4,590.77 2,008.46 2,869.23	986.97
32 31 13 13-0627	EA		6' High x 15' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	10,665.03 3,780.62 2,433.51 1,512.25 -756.12 956.02 1,390.57 4,171.72 1,825.13 2,607.33	986.97
32 31 13 13-0628	EA		6' High x 20' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	12,378.71 4,257.74 2,740.61 1,703.10 -851.55 1,076.67 1,566.07 4,698.20 2,055.46 2,936.37	1,295.40
32 31 13 13-0629	EA		6' High x 25' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	16,510.81 5,786.87 3,724.88 2,314.75 -1,157.37 1,463.35 2,128.50 6,385.51 2,793.66 3,990.95	1,603.83
32 31 13 13-0630	EA		6' High x 30' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	18,506.20 6,386.54 4,110.87 2,554.61 -1,277.31 1,614.99 2,349.07 7,047.21 3,083.15 4,404.51	1,912.26

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0631	EA	6' High x 36' Wide Galvanized Cantilever Sliding Gate.....	21,812.66	2,097.31
		For 1" Mesh Fabric, Add	7,663.84	
		For 1-1/4" Mesh Fabric, Add	4,933.05	
		For 1-3/4" Mesh Fabric, Add	3,065.54	
		For 2-1/8" Mesh Fabric, Deduct	-1,532.77	
		For Gate With Single Barb Wire Arm, Add	1,937.98	
		For Gate With Double Barb Wire Arm, Add	2,818.88	
		For Aluminized Steel Gate And Post, Add	8,456.65	
		For Powder Coated Gate And Post, Add	3,699.79	
		For Vinyl Coated, Add	5,285.41	
32 31 13 13-0632	EA	8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	12,410.97	1,233.72
		For 1" Mesh Fabric, Add	4,325.44	
		For 1-1/4" Mesh Fabric, Add	2,784.19	
		For 1-3/4" Mesh Fabric, Add	1,730.18	
		For 2-1/8" Mesh Fabric, Deduct	-865.09	
		For Gate With Single Barb Wire Arm, Add	1,093.79	
		For Gate With Double Barb Wire Arm, Add	1,590.97	
		For Aluminized Steel Gate And Post, Add	4,772.90	
		For Powder Coated Gate And Post, Add	2,088.15	
		For Vinyl Coated, Add	2,983.07	
32 31 13 13-0633	EA	8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	14,527.58	1,665.51
		For 1" Mesh Fabric, Add	4,870.50	
		For 1-1/4" Mesh Fabric, Add	3,135.03	
		For 1-3/4" Mesh Fabric, Add	1,948.20	
		For 2-1/8" Mesh Fabric, Deduct	-974.10	
		For Gate With Single Barb Wire Arm, Add	1,231.62	
		For Gate With Double Barb Wire Arm, Add	1,791.45	
		For Aluminized Steel Gate And Post, Add	5,374.34	
		For Powder Coated Gate And Post, Add	2,351.28	
		For Vinyl Coated, Add	3,358.97	
32 31 13 13-0634	EA	8' High x 25' Wide Galvanized Cantilever Sliding Gate.....	19,412.26	2,097.31
		For 1" Mesh Fabric, Add	6,619.67	
		For 1-1/4" Mesh Fabric, Add	4,260.94	
		For 1-3/4" Mesh Fabric, Add	2,647.87	
		For 2-1/8" Mesh Fabric, Deduct	-1,323.93	
		For Gate With Single Barb Wire Arm, Add	1,673.94	
		For Gate With Double Barb Wire Arm, Add	2,434.82	
		For Aluminized Steel Gate And Post, Add	7,304.46	
		For Powder Coated Gate And Post, Add	3,195.70	
		For Vinyl Coated, Add	4,565.29	
32 31 13 13-0635	EA	8' High x 30' Wide Galvanized Cantilever Sliding Gate.....	21,727.48	2,467.42
		For 1" Mesh Fabric, Add	7,304.79	
		For 1-1/4" Mesh Fabric, Add	4,701.94	
		For 1-3/4" Mesh Fabric, Add	2,921.92	
		For 2-1/8" Mesh Fabric, Deduct	-1,460.96	
		For Gate With Single Barb Wire Arm, Add	1,847.19	
		For Gate With Double Barb Wire Arm, Add	2,686.82	
		For Aluminized Steel Gate And Post, Add	8,060.46	
		For Powder Coated Gate And Post, Add	3,526.45	
		For Vinyl Coated, Add	5,037.79	
32 31 13 13-0636	EA	8' High x 36' Wide Galvanized Cantilever Sliding Gate.....	25,579.50	2,714.17
		For 1" Mesh Fabric, Add	8,765.75	
		For 1-1/4" Mesh Fabric, Add	5,642.32	
		For 1-3/4" Mesh Fabric, Add	3,506.30	
		For 2-1/8" Mesh Fabric, Deduct	-1,753.15	
		For Gate With Single Barb Wire Arm, Add	2,216.63	
		For Gate With Double Barb Wire Arm, Add	3,224.19	
		For Aluminized Steel Gate And Post, Add	9,672.56	
		For Powder Coated Gate And Post, Add	4,231.74	
		For Vinyl Coated, Add	6,045.35	
32 31 13 13-0637	EA	10' High x 15' Wide Galvanized Cantilever Sliding Gate.....	14,147.40	1,480.46
		For 1" Mesh Fabric, Add	4,866.12	
		For 1-1/4" Mesh Fabric, Add	3,132.22	
		For 1-3/4" Mesh Fabric, Add	1,946.45	
		For 2-1/8" Mesh Fabric, Deduct	-973.22	
		For Gate With Single Barb Wire Arm, Add	1,230.51	
		For Gate With Double Barb Wire Arm, Add	1,789.84	
		For Aluminized Steel Gate And Post, Add	5,369.52	
		For Powder Coated Gate And Post, Add	2,349.16	
		For Vinyl Coated, Add	3,355.95	
32 31 13 13-0638	EA	10' High x 20' Wide Galvanized Cantilever Sliding Gate.....	16,280.67	1,912.26
		For 1" Mesh Fabric, Add	5,418.43	
		For 1-1/4" Mesh Fabric, Add	3,487.72	
		For 1-3/4" Mesh Fabric, Add	2,167.37	
		For 2-1/8" Mesh Fabric, Deduct	-1,083.69	
		For Gate With Single Barb Wire Arm, Add	1,370.18	
		For Gate With Double Barb Wire Arm, Add	1,992.99	
		For Aluminized Steel Gate And Post, Add	5,978.96	
		For Powder Coated Gate And Post, Add	2,615.79	
		For Vinyl Coated, Add	3,736.85	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0639	EA	10' High x 25' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	21,561.21 7,447.13 4,793.56 2,978.85 -1,489.43 1,883.18 2,739.17 8,217.52 3,595.17 5,135.95	2,220.68
32 31 13	13-0640	EA	10' High x 30' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	24,073.30 8,217.89 5,289.68 3,287.16 -1,643.58 2,078.09 3,022.67 9,068.02 3,967.26 5,667.51	2,590.80
32 31 13	13-0641	EA	10' High x 36' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	28,345.14 9,861.48 6,347.62 3,944.59 -1,972.30 2,493.71 3,627.21 10,881.63 4,760.71 6,801.02	2,837.54
32 31 13	13-0642	EA	12' High x 15' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	16,754.82 5,839.35 3,758.66 2,335.74 -1,167.87 1,476.62 2,147.81 6,443.42 2,819.00 4,027.14	1,665.51
32 31 13	13-0643	EA	12' High x 20' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	19,309.97 6,575.17 4,232.30 2,630.07 -1,315.03 1,662.69 2,418.45 7,255.36 3,174.22 4,534.60	2,097.31
32 31 13	13-0644	EA	12' High x 25' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	25,355.29 8,936.55 5,752.26 3,574.62 -1,787.31 2,259.82 3,287.01 9,861.02 4,314.20 6,163.14	2,405.74
32 31 13	13-0645	EA	12' High x 30' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	28,098.40 9,861.48 6,347.62 3,944.59 -1,972.30 2,493.71 3,627.21 10,881.63 4,760.71 6,801.02	2,714.17
32 31 13	13-0646	EA	12' High x 36' Wide Galvanized Cantilever Sliding Gate..... For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For Vinyl Coated, Add	31,950.40 11,322.43 7,288.00 4,528.97 -2,264.49 2,863.14 4,164.57 12,493.72 5,466.00 7,808.57	2,960.91
32 31 13	13-0647	Gate Accessories (32 31 13 13-0268)			
32 31 13	13-0648	EA	3" Wheel Diameter, 1" Wheel Width, Black Rubber, Spring-loaded Gate Caster Note: 100 Lb. max weight capacity	67.99	17.00
32 31 13	13-0649	EA	4" Wheel Diameter, 1-1/4" Wheel Width, Black Rubber, Spring-loaded Gate Caster Note: 225 Lb. max weight capacity	78.24	17.00

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0650	EA		6" Wheel Diameter, 2" Wheel Width, Black Rubber, Spring-loaded Gate Caster Note: 550 Lb. max weight capacity	144.08	17.00
32 31 13 13-0651	EA		Gate Center Stop, Cast Steel, Ground	43.09	
32 31 13 13-0652	EA		Gate Latch, Malleable Galvanized Steel	51.86	
32 31 13 13-0653	EA		Gate Keeper, Full Length, Galvanized Steel	237.53	
32 31 13 13-0654	EA		Gate Keeper Hold-Open For Cantilever Gate	111.75	19.71
32 31 13 13-0655	EA		Heavy-Duty Gate Latch, Malleable Galvanized Steel	63.10	
32 31 13 13-0656	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate	1,138.16	
32 31 13 13-0657	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 6' To 8' High Gate	1,219.72	
32 31 13 13-0658	EA		Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 10' To 12' High Gate	1,301.27	
32 31 13 13-0659	LF		Aluminum V-Groove Gate Track	64.86	11.24
32 31 13 13-0660	LF		Galvanized Steel V-Groove Gate Track	46.55	11.24

32 31 13 13-0661**Vertical-Pivot Lift Gate** (32 31 13 13-0268)

Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator.
Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.

32 31 13 13-0662	EA		5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	33,312.74	925.28
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0663	EA		5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	33,682.85	1,110.35
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0664	EA		5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	34,052.97	1,295.40
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	287.50	
32 31 13 13-0665	EA		5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	34,817.59	1,480.46
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0666	EA		5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	35,562.50	1,665.51
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0667	EA		6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate	34,637.21	1,202.87
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0668	EA		6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate	35,007.33	1,387.92
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13 13-0669	EA		6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate	35,377.44	1,572.99
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	287.50	
32 31 13 13-0670	EA		6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate	35,964.53	1,758.04
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13 13-0671	EA		6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate	36,886.95	1,943.10
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	

32 31 13 13-0672**Reinforced Gate** (32 31 13 13-0268)

Note: With cross bracing, tension rods, gate keeper (full height, stainless steel rod, internal locking device, gate stop), off-set hinges, and 6 gauge fabric. Excludes gate posts.

32 31 13 13-0673	LF		Reinforced Single Gate, 4' High, Galvanized	653.72	12.45
			For Vinyl Coated, Add	377.30	
			For Powder Coated, Add	503.06	
			For Aluminum Coated, Add	786.04	
32 31 13 13-0674	LF		Reinforced Single Gate, 5' High, Galvanized	701.40	13.49
			For Vinyl Coated, Add	404.66	
			For Powder Coated, Add	539.54	
			For Aluminum Coated, Add	843.04	
32 31 13 13-0675	LF		Reinforced Single Gate, 6' High, Galvanized	748.51	15.04
			For Vinyl Coated, Add	431.06	
			For Powder Coated, Add	574.74	
			For Aluminum Coated, Add	898.04	
32 31 13 13-0676	LF		Reinforced Single Gate, 7' High, Galvanized	793.04	16.08
			For Vinyl Coated, Add	456.53	
			For Powder Coated, Add	608.71	
			For Aluminum Coated, Add	951.11	
32 31 13 13-0677	LF		Reinforced Single Gate, 8' High, Galvanized	838.90	18.16
			For Vinyl Coated, Add	481.55	
			For Powder Coated, Add	642.07	
			For Aluminum Coated, Add	1,003.24	



Exterior Improvements			32
Site Improvements			32 30
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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 31 13 13-0678	LF Reinforced Double Gate, 4' High, Galvanized For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add	446.08		12.45	
32 31 13 13-0679	LF Reinforced Double Gate, 5' High, Galvanized For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add	500.86		13.49	
32 31 13 13-0680	LF Reinforced Double Gate, 6' High, Galvanized For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add	554.76		15.04	
32 31 13 13-0681	LF Reinforced Double Gate, 7' High, Galvanized For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add	712.76		16.08	
32 31 13 13-0682	LF Reinforced Double Gate, 8' High, Galvanized For Vinyl Coated, Add For Powder Coated, Add For Aluminum Coated, Add	869.08		18.16	
32 31 13 13-0683	Accessories (32 31 13 13)				
32 31 13 13-0684	Barbed And Concertina Wire (32 31 13 13-0683)				
32 31 13 13-0685	Single Strand Barbed Wire (32 31 13 13-0684)				
32 31 13 13-0686	LF 12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 1, Galvanized Barbed Wire, Per Strand Note: Includes clips. 4 points 12-1/2 Gauge, Class I. For >500 To 2,000, Deduct For >2,000 To 5,000, Deduct	1.17		0.52	
32 31 13 13-0687	LF 12-1/2 Gauge, 4 Points, 5" O. C., ASTM A121, Class 3, Galvanized Barbed Wire, Per Strand For >500 To 2,000, Deduct For >2,000 To 5,000, Deduct	1.22		0.52	
32 31 13 13-0688	LF Vinyl Coated Barbed Wire (Fused), Per Strand Note: Includes clips. For >500 To 2,000, Deduct For >2,000 To 5,000, Deduct	1.33		0.52	
32 31 13 13-0689	EA Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 3 Strand, 45 Degree, Galvanized Steel, Barbed Wire Single Arm Mounted On Top Of Post.....	16.98		8.30	
32 31 13 13-0690	EA Chain Link 2-1/2" (2-3/8" OD) x 1-5/8", 6 Strand, 45 Degree, Galvanized Steel, Barbed Wire V-Barb Arm Mounted On Top Of Post.....	29.31		9.96	
32 31 13 13-0691	EA Barbed Wire Eye Tops (For Single Strand) Mounted On Top Of Post.....	13.89		8.30	
32 31 13 13-0692	Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0684)				
32 31 13 13-0693	LF 18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence..... For >500 To 1,500, Deduct For >1,500 To 5,000, Deduct For >5,000, Deduct For Ground Installation, Deduct For Double Coil (Helix), Add	5.82		0.73	
32 31 13 13-0694	LF 18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence..... For >500 To 1,500, Deduct For >1,500 To 5,000, Deduct For >5,000, Deduct For Ground Installation, Deduct For Double Coil (Helix), Add	8.78		0.73	
32 31 13 13-0695	LF 18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence..... For >500 To 1,500, Deduct For >1,500 To 5,000, Deduct For >5,000, Deduct For Ground Installation, Deduct For Double Coil (Helix), Add	11.63		0.73	
32 31 13 13-0696	LF 24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence..... For >500 To 1,500, Deduct For >1,500 To 5,000, Deduct For >5,000, Deduct For Ground Installation, Deduct For Double Coil (Helix), Add	10.27		0.73	
32 31 13 13-0697	LF 24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence..... For >500 To 1,500, Deduct For >1,500 To 5,000, Deduct For >5,000, Deduct For Ground Installation, Deduct For Double Coil (Helix), Add	15.54		0.73	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0698	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	20.52	0.73
			For >500 To 1,500, Deduct	-1.65	
			For >1,500 To 5,000, Deduct	-3.31	
			For >5,000, Deduct	-4.56	
			For Ground Installation, Deduct	-1.15	
			For Double Coil (Helix), Add	18.23	
32 31 13	13-0699	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	33.87	0.73
			For >500 To 1,500, Deduct	-2.61	
			For >1,500 To 5,000, Deduct	-5.21	
			For >5,000, Deduct	-7.03	
			For Ground Installation, Deduct	-0.65	
			For Double Coil (Helix), Add	32.57	
32 31 13	13-0700	LF	30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	51.27	0.73
			For >500 To 1,500, Deduct	-3.94	
			For >1,500 To 5,000, Deduct	-7.89	
			For >5,000, Deduct	-10.64	
			For Ground Installation, Deduct	-0.97	
			For Double Coil (Helix), Add	49.33	
32 31 13	13-0701	LF	30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	67.73	0.73
			For >500 To 1,500, Deduct	-5.21	
			For >1,500 To 5,000, Deduct	-10.42	
			For >5,000, Deduct	-14.06	
			For Ground Installation, Deduct	-1.30	
			For Double Coil (Helix), Add	65.14	
32 31 13 13-0702 Stainless Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0684)					
32 31 13	13-0703	LF	18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	11.19	0.73
			For >500 To 1,500, Deduct	-0.89	
			For >1,500 To 5,000, Deduct	-1.78	
			For >5,000, Deduct	-2.45	
			For Ground Installation, Deduct	-0.52	
			For Double Coil (Helix), Add	10.15	
32 31 13	13-0704	LF	18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	16.91	0.73
			For >500 To 1,500, Deduct	-1.35	
			For >1,500 To 5,000, Deduct	-2.69	
			For >5,000, Deduct	-3.69	
			For Ground Installation, Deduct	-0.78	
			For Double Coil (Helix), Add	15.36	
32 31 13	13-0705	LF	18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	22.37	0.73
			For >500 To 1,500, Deduct	-1.78	
			For >1,500 To 5,000, Deduct	-3.56	
			For >5,000, Deduct	-4.89	
			For Ground Installation, Deduct	-1.04	
			For Double Coil (Helix), Add	20.30	
32 31 13	13-0706	LF	24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	14.83	0.73
			For >500 To 1,500, Deduct	-1.17	
			For >1,500 To 5,000, Deduct	-2.34	
			For >5,000, Deduct	-3.20	
			For Ground Installation, Deduct	-0.58	
			For Double Coil (Helix), Add	13.68	
32 31 13	13-0707	LF	24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	22.44	0.73
			For >500 To 1,500, Deduct	-1.77	
			For >1,500 To 5,000, Deduct	-3.54	
			For >5,000, Deduct	-4.83	
			For Ground Installation, Deduct	-0.87	
			For Double Coil (Helix), Add	20.71	
32 31 13	13-0708	LF	24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	29.63	0.73
			For >500 To 1,500, Deduct	-2.34	
			For >1,500 To 5,000, Deduct	-4.67	
			For >5,000, Deduct	-6.38	
			For Ground Installation, Deduct	-1.15	
			For Double Coil (Helix), Add	27.34	
32 31 13	13-0709	LF	30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	51.11	0.73
			For >500 To 1,500, Deduct	-3.90	
			For >1,500 To 5,000, Deduct	-7.80	
			For >5,000, Deduct	-10.48	
			For Ground Installation, Deduct	-0.65	
			For Double Coil (Helix), Add	49.81	
32 31 13	13-0710	LF	30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	77.39	0.73
			For >500 To 1,500, Deduct	-5.90	
			For >1,500 To 5,000, Deduct	-11.80	
			For >5,000, Deduct	-15.87	
			For Ground Installation, Deduct	-0.97	
			For Double Coil (Helix), Add	75.45	



Exterior Improvements		32
Site Improvements		32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0711	LF		30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	102.20	0.73
			For >500 To 1,500, Deduct	-7.79	
			For >1,500 To 5,000, Deduct	-15.59	
			For >5,000, Deduct	-20.96	
			For Ground Installation, Deduct	-1.30	
			For Double Coil (Helix), Add	99.61	
32 31 13 13-0712			Grounding For Gates (32 31 13 13-0683)		
			Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0713	OPNG		Grounding For Gates (Per Opening)	473.78	
32 31 13 13-0714			Coiled Spring Reinforcing Wire (32 31 13 13-0683)		
32 31 13 13-0715			Galvanized Steel (32 31 13 13-0714)		
32 31 13 13-0716	LF		7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring	1.24	0.52
32 31 13 13-0717			Vinyl Coated Steel (32 31 13 13-0714)		
32 31 13 13-0718	LF		9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.24	0.52
32 31 13 13-0719			Bending Of Fabric Around Pipe Railings (32 31 13 13-0683)		
			Note: Only where specified.		
32 31 13 13-0720	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.65	
32 31 13 13-0721	LF		Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.45	
32 31 13 13-0722			Mounting Plate With Anchors Or Bolts (32 31 13 13-0683)		
			Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0723	EA		Mounting Plate For 1-5/8" Diameter Post	47.95	
32 31 13 13-0724	EA		Mounting Plate For 2" Diameter Post	48.75	
32 31 13 13-0725	EA		Mounting Plate For 2-1/2" Diameter Post	50.12	
32 31 13 13-0726	EA		Mounting Plate For 3" Diameter Post	60.49	
32 31 13 13-0727	EA		Mounting Plate For 4" Diameter Post	69.63	
32 31 13 13-0728	EA		Mounting Plate For 6-5/8" Diameter Post	80.77	
32 31 13 13-0729	EA		Mounting Plate For 8-5/8" Diameter Post	95.33	
32 31 13 13-0730			Tension Bar (32 31 13 13-0683)		
32 31 13 13-0731	EA		3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	17.46	
32 31 13 13-0732	EA		3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar	18.59	
32 31 13 13-0733	EA		4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	23.06	
32 31 13 13-0734	EA		5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	26.77	
32 31 13 13-0735	EA		6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	31.72	
32 31 13 13-0736	EA		7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	36.88	
32 31 13 13-0737	EA		8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	41.72	
32 31 13 13-0738	EA		9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	50.19	
32 31 13 13-0739	EA		10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar	60.09	
32 31 13 13-0740			Truss Rods (32 31 13 13-0683)		
32 31 13 13-0741	LF		3/8" Diameter Truss Rods.....	2.30	0.58
32 31 13 13-0742			Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0743			Fence And Gate Parts Replacement (32 31 13 13-0742)		
32 31 13 13-0744	EA		Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement.....	135.05	
32 31 13 13-0745	EA		Sliding Gate Roller Assembly Replacement	131.58	
32 31 13 13-0746	EA		Rod And Lock Gate Keeper Replacement	134.92	
32 31 13 13-0747	EA		Galvanized Gate Holdback Replacement	29.46	
32 31 13 13-0748	LF		3/8" Cross Bracing Rod Replacement	1.74	
32 31 13 13-0749	LF		1-5/8" Diagonal Pipe Bracing Replacement.....	2.71	
32 31 13 13-0750	EA		2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	28.21	
32 31 13 13-0751	EA		2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	32.22	
32 31 13 13-0752	EA		3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	36.36	
32 31 13 13-0753	EA		6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement	54.01	
32 31 13 13-0754	EA		8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	111.76	
32 31 13 13-0755	EA		2-1/2" x 2" Off Set Gate Hinge Replacement	27.87	
32 31 13 13-0756	EA		3" x 2" Off Set Gate Hinge Replacement	29.08	
32 31 13 13-0757	EA		4" x 2" Off Set Gate Hinge Replacement	31.01	
32 31 13 13-0758	EA		6-5/8" x 2" Off Set Gate Hinge Replacement	51.11	
32 31 13 13-0759	EA		8-5/8" x 2" Off Set Gate Hinge Replacement	80.91	
32 31 13 13-0760	EA		1-5/8" Aluminum Die-Cast Post Cap Replacement.....	6.07	
32 31 13 13-0761	EA		2" Aluminum Die-Cast Post Cap Replacement	6.66	
32 31 13 13-0762	EA		2-1/2" Aluminum Die-Cast Post Cap Replacement.....	7.78	
32 31 13 13-0763	EA		3" Aluminum Die-Cast Post Cap Replacement	9.08	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0764	EA	2" Galvanized Post Cap Replacement.....	6.80	
32 31 13 13-0765	EA	2-1/2" Galvanized Post Cap Replacement.....	7.35	
32 31 13 13-0766	EA	3" Galvanized Post Cap Replacement.....	8.44	
32 31 13 13-0767	EA	4" Galvanized Post Cap Replacement.....	12.65	
32 31 13 13-0768	EA	6-5/8" Galvanized Post Cap Replacement.....	24.13	
32 31 13 13-0769	EA	8-5/8" Galvanized Post Cap Replacement.....	39.76	
32 31 13 13-0770	EA	1-5/8" Boulevard Clamp Replacement.....	11.29	
32 31 13 13-0771	EA	2" Boulevard Clamp Replacement.....	13.77	
32 31 13 13-0772	EA	2-1/2" Boulevard Clamp Replacement.....	16.16	
32 31 13 13-0773	EA	3" Boulevard Clamp Replacement.....	19.61	
32 31 13 13-0774	EA	1-5/8" Gate Brace Or End Rail Clamp Replacement.....	11.06	
32 31 13 13-0775	EA	2" Gate Brace Or End Rail Clamp Replacement.....	13.45	
32 31 13 13-0776	EA	2-1/2" Gate Brace Or End Rail Clamp Replacement.....	15.84	
32 31 13 13-0777	EA	3" Gate Brace Or End Rail Clamp Replacement.....	19.27	
32 31 13 13-0778	EA	1-3/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	11.39	
32 31 13 13-0779	EA	1-5/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	11.49	
32 31 13 13-0780	EA	2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	11.77	
32 31 13 13-0781	EA	2-1/2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	11.64	
32 31 13 13-0782	EA	3" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	11.85	
32 31 13 13-0783	EA	3-1/2" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.02	
32 31 13 13-0784	EA	4" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	12.51	
32 31 13 13-0785	EA	6-5/8" Heavy-Duty Galvanized Tension Band With Bolt, Replacement.....	16.11	
32 31 13 13-0786		Removal And Reinstallation Of Chain Link Fences (32 31 13 13)		
		Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work. See CSI section 32 31 13 13-0001 for new post holes where required, 32 31 13 13-0058 for new fence posts where required.		
32 31 13 13-0787	LF	Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	20.74	
32 31 13 13-0788	LF	Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	31.12	
32 31 13 13-0789		Ballfield Fencing (32 31 13 13)		
		See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 13-0790		Concrete Bases For Ballfield Poles, Cast In Place (32 31 13 13-0789)		
		Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill.		
32 31 13 13-0791	VLF	2-1/2' Diameter Concrete Base For Ballfield Poles.....	139.35	
32 31 13 13-0792	VLF	3' Diameter Concrete Base For Ballfield Poles.....	165.72	
32 31 13 13-0793	VLF	3-1/2' Diameter Concrete Base For Ballfield Poles.....	209.78	
32 31 13 13-0794	VLF	4' Diameter Concrete Base For Ballfield Poles.....	249.18	
32 31 13 13-0795		Ballfield Poles (32 31 13 13-0789)		
32 31 13 13-0796	EA	20' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting.....	8,372.56	720.33
		Note: 10' above grade		
32 31 13 13-0797	EA	25' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting.....	10,386.10	900.40
		Note: 15' above grade		
32 31 13 13-0798	EA	30' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting.....	11,937.97	1,080.48
		Note: 20' above grade		
32 31 13 13-0799	EA	40' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting.....	16,043.83	1,260.57
		Note: 30' above grade		
32 31 13 13-0800	EA	50' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting.....	21,493.75	1,440.65
		Note: 40' above grade		
32 31 13 13-0801	EA	60' Galvanized Steel Pole, 24" Diameter At Base For Ballfield Netting.....	24,019.00	1,620.73
		Note: 50' above grade		
32 31 13 13-0802		Ballfield Nylon Netting (32 31 13 13-0789)		
		Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0803	LF	10' High, #18 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	1.87	
32 31 13 13-0804	LF	10' High, #21 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	1.91	
32 31 13 13-0805	LF	10' High, #36 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.14	
32 31 13 13-0806	LF	10' High, #42 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.42	
32 31 13 13-0807	LF	10' High, #48 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	2.68	
32 31 13 13-0808	LF	10' High, #60 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	3.56	
32 31 13 13-0809	LF	10' High, #72 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	4.04	
32 31 13 13-0810	LF	10' High, #96 Black Twisted Knotted Nylon Square 1-3/4" Mesh With Sewn Borders For Ballfield Netting.....	5.25	
32 31 13 13-0811		Ballfield Chainlink Netting (32 31 13 13-0789)		
		Note: Excludes fastening clips and cabling See CSI section 05 15 00 00-0000 for cabling and accessories.		
32 31 13 13-0812	SF	#9 Gauge Chain Link Fabric, 2" Mesh For Ballfield Netting.....	3.99	1.32
		For 13 Gauge Fabric, Deduct	-0.60	
		For 11 Gauge Fabric, Deduct	-0.34	
		For 6 Gauge Fabric, Add	1.07	
		For 1" Mesh Fabric, Add	1.01	
		For 1-3/4" Mesh Fabric, Add	0.40	
		For 2-1/8" Mesh Fabric, Deduct	-0.20	
		For 2-3/8" Mesh Fabric, Deduct	-0.27	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0813			Ballfield Netting Accessories (32 31 13 13-0789)		
32 31 13 13-0814	EA		Sliding Clip For Ballfield Netting.....	9.20	
32 31 13 13-0815	EA		1/4" Utility Spring Swing Clip For Ballfield Netting	4.15	
32 31 13 13-0816	EA		5/16" Utility Spring Swing Clip For Ballfield Netting	4.35	
32 31 13 13-0817	EA		3/8" Utility Spring Swing Clip For Ballfield Netting	4.66	
32 31 13 33			Chain Link Backstops (32 31 13)		
32 31 13 33-0001			Regulation Baseball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0002	EA		20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized	13,622.21	2,097.70
32 31 13 33-0003	EA		34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized	19,693.16	2,796.93
32 31 13 33-0004	EA		48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized	25,154.72	3,263.08
32 31 13 33-0005	EA		20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	19,280.51	2,097.70
32 31 13 33-0006	EA		34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated	28,159.77	2,796.93
32 31 13 33-0007	EA		48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated	36,327.74	3,263.08
32 31 13 33-0008	SF		2" Thick Polyethylene Foam, 18 Oz Vinyl Cover, Padding Installed On Chain Link Backstop	14.98	
32 31 13 33-0009	SF		3" Thick Polyethylene Foam, 18 Oz Vinyl Cover, Padding Installed On Chain Link Backstop	17.88	
32 31 13 33-0010			Regulation Softball Backstop (32 31 13 33) See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
32 31 13 33-0011			14' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0012	EA		14' Softball Backstop, Galvanized Regulation	11,531.69	2,145.55
32 31 13 33-0013	EA		14' Softball Backstop, Vinyl Coated Regulation	15,589.92	2,145.55
32 31 13 33-0014			18' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0015	EA		18' Softball Backstop, Galvanized Regulation	13,482.50	2,385.26
32 31 13 33-0016	EA		18' Softball Backstop Vinyl Coated Regulation	18,391.65	2,385.26
32 31 13 33-0017			20' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0018	EA		20' Softball Backstop, Galvanized Regulation	15,297.94	2,514.92
32 31 13 33-0019	EA		20' Softball Backstop, Vinyl Coated Regulation	21,123.52	2,514.92
32 31 13 33-0020			22' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0021	EA		22' Softball Backstop, Galvanized Regulation	17,654.50	2,590.80
32 31 13 33-0022	EA		22' Softball Backstop, Vinyl Coated Regulation	24,658.21	2,590.80
32 31 13 33-0023			24' High Softball Backstop (32 31 13 33-0010) Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31 13 33-0024	EA		24' Softball Backstop, Galvanized Regulation	21,054.15	2,960.91
32 31 13 33-0025	EA		24' Softball Backstop, Vinyl Coated Regulation	29,759.70	2,960.91
32 31 16			Welded Wire Fences and Gates (32 31)		
32 31 16 00-0001			Welded Wire Fence (32 31 16)		
32 31 16 00-0002			12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0003	LF		3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	10.39	1.86
32 31 16 00-0004	LF		5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	11.23	1.86
32 31 16 00-0005			14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0006	LF		3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	10.22	1.86
32 31 16 00-0007	LF		5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	10.96	1.86
32 31 19			Decorative Metal Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31 19 00-0001			Wrought Iron Fence (32 31 19) Note: Factory primed.		
32 31 19 00-0002			Wrought Iron Fence, 3/4" Verticals At >3" To 4" On Center (32 31 19 00-0001) Note: Factory primed 8 foot long panel sections.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0003	LF		3' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	45.54	11.41
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	8.43	
			For Verticals Up To 2" On Center, Add	7.27	
			For Verticals >2" To 2-1/2" On Center, Add	4.54	
			For Verticals >2-1/2" To 3" On Center, Add	1.82	
			For Verticals >4" To 6" On Center, Deduct	-2.04	
			For Pickets Extending Above Top Rail, Add	3.98	
			For Curved Pickets Extending Above Top Rail, Add	9.10	
32 31 19 00-0004	LF		4' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	58.15	14.52
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	10.68	
			For Verticals Up To 2" On Center, Add	9.64	
			For Verticals >2" To 2-1/2" On Center, Add	6.02	
			For Verticals >2-1/2" To 3" On Center, Add	2.41	
			For Verticals >4" To 6" On Center, Deduct	-2.71	
			For Pickets Extending Above Top Rail, Add	5.17	
			For Curved Pickets Extending Above Top Rail, Add	11.89	
32 31 19 00-0005	LF		5' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	68.48	15.14
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	12.41	
			For Verticals Up To 2" On Center, Add	12.15	
			For Verticals >2" To 2-1/2" On Center, Add	7.60	
			For Verticals >2-1/2" To 3" On Center, Add	3.04	
			For Verticals >4" To 6" On Center, Deduct	-3.42	
			For Pickets Extending Above Top Rail, Add	6.27	
			For Curved Pickets Extending Above Top Rail, Add	14.63	
32 31 19 00-0006	LF		6' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	82.83	18.26
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	14.99	
			For Verticals Up To 2" On Center, Add	14.80	
			For Verticals >2" To 2-1/2" On Center, Add	9.25	
			For Verticals >2-1/2" To 3" On Center, Add	3.70	
			For Verticals >4" To 6" On Center, Deduct	-4.16	
			For Pickets Extending Above Top Rail, Add	7.61	
			For Curved Pickets Extending Above Top Rail, Add	17.77	
32 31 19 00-0007	LF		7' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	96.11	19.32
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	17.12	
			For Verticals Up To 2" On Center, Add	18.39	
			For Verticals >2" To 2-1/2" On Center, Add	11.49	
			For Verticals >2-1/2" To 3" On Center, Add	4.60	
			For Verticals >4" To 6" On Center, Deduct	-5.17	
			For Pickets Extending Above Top Rail, Add	9.12	
			For Curved Pickets Extending Above Top Rail, Add	21.58	
32 31 19 00-0008	LF		8' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	109.35	20.33
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	19.25	
			For Verticals Up To 2" On Center, Add	21.98	
			For Verticals >2" To 2-1/2" On Center, Add	13.74	
			For Verticals >2-1/2" To 3" On Center, Add	5.50	
			For Verticals >4" To 6" On Center, Deduct	-6.18	
			For Pickets Extending Above Top Rail, Add	10.62	
			For Curved Pickets Extending Above Top Rail, Add	25.37	
32 31 19 00-0009	LF		10' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	132.17	22.82
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	23.02	
			For Verticals Up To 2" On Center, Add	27.69	
			For Verticals >2" To 2-1/2" On Center, Add	17.31	
			For Verticals >2-1/2" To 3" On Center, Add	6.92	
			For Verticals >4" To 6" On Center, Deduct	-7.79	
			For Pickets Extending Above Top Rail, Add	13.10	
			For Curved Pickets Extending Above Top Rail, Add	31.55	
32 31 19 00-0010	LF		12' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	155.77	25.93
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	27.00	
			For Verticals Up To 2" On Center, Add	33.25	
			For Verticals >2" To 2-1/2" On Center, Add	20.78	
			For Verticals >2-1/2" To 3" On Center, Add	8.31	
			For Verticals >4" To 6" On Center, Deduct	-9.35	
			For Pickets Extending Above Top Rail, Add	15.58	
			For Curved Pickets Extending Above Top Rail, Add	37.66	
32 31 19 00-0011			Wrought Iron Gates (32 31 19 00-0001) Note: Factory primed.		
32 31 19 00-0012			Single Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.		
32 31 19 00-0013	LF		3' Single Wrought Iron Gate, Hardware And Associated Trim	55.84	13.90
32 31 19 00-0014	LF		4' Single Wrought Iron Gate, Hardware And Associated Trim	73.25	17.22
32 31 19 00-0015	LF		5' Single Wrought Iron Gate, Hardware And Associated Trim	89.13	20.74
32 31 19 00-0016	LF		6' Single Wrought Iron Gate, Hardware And Associated Trim	108.18	24.89
32 31 19 00-0017	LF		8' Single Wrought Iron Gate, Hardware And Associated Trim	142.65	27.59
32 31 19 00-0018	LF		10' Single Wrought Iron Gate, Hardware And Associated Trim	171.41	30.50
32 31 19 00-0019	LF		12' Single Wrought Iron Gate, Hardware And Associated Trim	199.65	34.65
32 31 19 00-0020			Double Wrought Iron Gates (32 31 19 00-0011) Note: Factory primed.		
32 31 19 00-0021	LF		3' Double Wrought Iron Gate, Hardware And Associated Trim	68.03	12.45
32 31 19 00-0022	LF		4' Double Wrought Iron Gate, Hardware And Associated Trim	89.11	15.56
32 31 19 00-0023	LF		5' Double Wrought Iron Gate, Hardware And Associated Trim	107.97	18.67
32 31 19 00-0024	LF		6' Double Wrought Iron Gate, Hardware And Associated Trim	130.62	22.41



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0025	LF		8' Double Wrought Iron Gate, Hardware And Associated Trim.....	173.06	24.89
32 31 19 00-0026	LF		10' Double Wrought Iron Gate, Hardware And Associated Trim.....	208.32	27.39
32 31 19 00-0027	LF		12' Double Wrought Iron Gate, Hardware And Associated Trim.....	243.11	31.12
32 31 19 00-0028			Repair Or Replace Wrought Iron Fence (32 31 19 00-0001)		
32 31 19 00-0029	LF		Removal And Replacement Of Wrought Iron Picket.....	19.56	
32 31 19 00-0030	LF		Removal And Replacement Of Wrought Iron Post.....	28.76	
32 31 19 00-0031	EA		Straighten Wrought Iron Post.....	82.99	
32 31 19 00-0032			Steel Tube Fence, Powder Coated (32 31 19)		
Note: Pickets are 3/4" square x 16 gauge.					
32 31 19 00-0033			Steel Tube Fence, 2 Rail (32 31 19 00-0032)		
Note: 6 foot long panel sections.					
32 31 19 00-0034	LF		3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	81.23	11.41
			For Verticals Up To 2" On Center, Add	11.77	
			For Verticals >2" To 2-1/2" On Center, Add	5.89	
			For Verticals >3" To 4" On Center, Deduct	-5.89	
			For Verticals >4" To 6" On Center, Deduct	-11.77	
			For Pickets Extending Above Top Rail, Add	6.12	
			For Curved Pickets Extending Above Top Rail, Add	10.80	
			For Solid Pickets, Add	16.60	
			For Aluminum With Satin Finish, Add	14.31	
			For Third Rail, Add	4.42	
			For 1" Square x 14 Gauge Pickets, Add	14.72	
			For 3" Square Posts, Add	7.36	
32 31 19 00-0035	LF		3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	86.86	12.20
			For Verticals Up To 2" On Center, Add	12.49	
			For Verticals >2" To 2-1/2" On Center, Add	6.25	
			For Verticals >3" To 4" On Center, Deduct	-6.25	
			For Verticals >4" To 6" On Center, Deduct	-12.49	
			For Pickets Extending Above Top Rail, Add	6.53	
			For Curved Pickets Extending Above Top Rail, Add	11.51	
			For Solid Pickets, Add	17.71	
			For Aluminum With Satin Finish, Add	15.08	
			For Third Rail, Add	4.68	
			For 1" Square x 14 Gauge Pickets, Add	15.62	
			For 3" Square Posts, Add	7.81	
32 31 19 00-0036	LF		4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	91.82	13.49
			For Verticals Up To 2" On Center, Add	13.08	
			For Verticals >2" To 2-1/2" On Center, Add	6.54	
			For Verticals >3" To 4" On Center, Deduct	-6.54	
			For Verticals >4" To 6" On Center, Deduct	-13.08	
			For Pickets Extending Above Top Rail, Add	6.88	
			For Curved Pickets Extending Above Top Rail, Add	12.12	
			For Solid Pickets, Add	18.68	
			For Aluminum With Satin Finish, Add	15.65	
			For Third Rail, Add	4.90	
			For 1" Square x 14 Gauge Pickets, Add	16.35	
			For 3" Square Posts, Add	8.17	
32 31 19 00-0037	LF		5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	97.53	15.14
			For Verticals Up To 2" On Center, Add	13.41	
			For Verticals >2" To 2-1/2" On Center, Add	6.70	
			For Verticals >3" To 4" On Center, Deduct	-6.70	
			For Verticals >4" To 6" On Center, Deduct	-13.41	
			For Pickets Extending Above Top Rail, Add	7.22	
			For Curved Pickets Extending Above Top Rail, Add	12.68	
			For Solid Pickets, Add	19.66	
			For Aluminum With Satin Finish, Add	15.53	
			For Third Rail, Add	5.03	
			For 1" Square x 14 Gauge Pickets, Add	16.76	
			For 3" Square Posts, Add	8.38	
32 31 19 00-0038	LF		6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	113.23	17.11
			For Verticals Up To 2" On Center, Add	15.80	
			For Verticals >2" To 2-1/2" On Center, Add	7.90	
			For Verticals >3" To 4" On Center, Deduct	-7.90	
			For Verticals >4" To 6" On Center, Deduct	-15.80	
			For Pickets Extending Above Top Rail, Add	8.43	
			For Curved Pickets Extending Above Top Rail, Add	14.81	
			For Solid Pickets, Add	22.91	
			For Aluminum With Satin Finish, Add	18.57	
			For Third Rail, Add	5.93	
			For 1" Square x 14 Gauge Pickets, Add	19.75	
			For 3" Square Posts, Add	9.88	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 19 00-0039	LF 7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	129.90		18.67
	For Verticals Up To 2" On Center, Add	18.51		
	For Verticals >2" To 2-1/2" On Center, Add	9.26		
	For Verticals >3" To 4" On Center, Deduct	-9.26		
	For Verticals >4" To 6" On Center, Deduct	-18.51		
	For Pickets Extending Above Top Rail, Add	9.73		
	For Curved Pickets Extending Above Top Rail, Add	17.15		
	For Solid Pickets, Add	26.43		
	For Aluminum With Satin Finish, Add	22.16		
	For Third Rail, Add	6.94		
	For 1" Square x 14 Gauge Pickets, Add	23.14		
	For 4" Square Posts, Add	32.39		
32 31 19 00-0040	LF 8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	146.77		20.33
	For Verticals Up To 2" On Center, Add	21.22		
	For Verticals >2" To 2-1/2" On Center, Add	10.61		
	For Verticals >3" To 4" On Center, Deduct	-10.61		
	For Verticals >4" To 6" On Center, Deduct	-21.22		
	For Pickets Extending Above Top Rail, Add	11.05		
	For Curved Pickets Extending Above Top Rail, Add	19.50		
	For Solid Pickets, Add	29.97		
	For Aluminum With Satin Finish, Add	25.73		
	For Third Rail, Add	7.96		
	For 1" Square x 14 Gauge Pickets, Add	26.53		
	For 4" Square Posts, Add	37.14		
32 31 19 00-0041	LF 9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	171.15		21.79
	For Verticals Up To 2" On Center, Add	25.52		
	For Verticals >2" To 2-1/2" On Center, Add	12.76		
	For Verticals >3" To 4" On Center, Deduct	-12.76		
	For Verticals >4" To 6" On Center, Deduct	-25.52		
	For Pickets Extending Above Top Rail, Add	13.02		
	For Curved Pickets Extending Above Top Rail, Add	23.04		
	For Solid Pickets, Add	35.24		
	For Aluminum With Satin Finish, Add	31.74		
	For Third Rail, Add	9.57		
	For 1" Square x 14 Gauge Pickets, Add	31.90		
	For 4" Square Posts, Add	44.66		
32 31 19 00-0042	LF 10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	195.75		23.34
	For Verticals Up To 2" On Center, Add	29.81		
	For Verticals >2" To 2-1/2" On Center, Add	14.91		
	For Verticals >3" To 4" On Center, Deduct	-14.91		
	For Verticals >4" To 6" On Center, Deduct	-29.81		
	For Pickets Extending Above Top Rail, Add	15.00		
	For Curved Pickets Extending Above Top Rail, Add	26.61		
	For Solid Pickets, Add	40.54		
	For Aluminum With Satin Finish, Add	37.72		
	For Third Rail, Add	11.18		
	For 1" Square x 14 Gauge Pickets, Add	37.27		
	For 6" Square Posts, Add	52.17		
32 31 19 00-0043	LF 12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	231.01		25.93
	For Verticals Up To 2" On Center, Add	35.83		
	For Verticals >2" To 2-1/2" On Center, Add	17.91		
	For Verticals >3" To 4" On Center, Deduct	-17.91		
	For Verticals >4" To 6" On Center, Deduct	-35.83		
	For Pickets Extending Above Top Rail, Add	17.82		
	For Curved Pickets Extending Above Top Rail, Add	31.66		
	For Solid Pickets, Add	48.09		
	For Aluminum With Satin Finish, Add	45.96		
	For Third Rail, Add	13.44		
	For 1" Square x 14 Gauge Pickets, Add	44.79		
	For 6" Square Posts, Add	62.70		
32 31 19 00-0044	LF 14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	247.39		28.00
	For Verticals Up To 2" On Center, Add	38.27		
	For Verticals >2" To 2-1/2" On Center, Add	19.14		
	For Verticals >3" To 4" On Center, Deduct	-19.14		
	For Verticals >4" To 6" On Center, Deduct	-38.27		
	For Pickets Extending Above Top Rail, Add	19.07		
	For Curved Pickets Extending Above Top Rail, Add	33.86		
	For Solid Pickets, Add	51.46		
	For Aluminum With Satin Finish, Add	49.01		
	For Third Rail, Add	14.35		
	For 1" Square x 14 Gauge Pickets, Add	47.84		
	For 6" Square Posts, Add	66.98		
32 31 19 00-0045	Steel Tube Swing Gates (32 31 19 00-0032)			
32 31 19 00-0046	3' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)			
32 31 19 00-0047	EA 3' Wide x 3' High Steel Tube Single Swing Gate	790.21		22.09
	Note: Includes mounting hardware and associated trim.			
	For Solid Pickets, Add	172.82		
	For Aluminum With Satin Finish, Add	207.19		
	For Third Rail, Add	54.29		
	For 1" Square x 14 Gauge Pickets, Add	72.38		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 31 19 00-0048	EA	3'-6" Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	879.64 192.71 232.62 60.76 81.01	23.14
32 31 19 00-0049	EA	4' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	974.02 213.63 259.06 67.53 90.04	24.48
32 31 19 00-0050	EA	5' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,024.33 224.56 271.82 70.91 94.55	26.24
32 31 19 00-0051	EA	6' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,143.86 250.29 300.68 78.71 104.95	31.43
32 31 19 00-0052	EA	7' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,216.30 265.42 315.41 82.98 110.63	36.62
32 31 19 00-0053	EA	8' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,327.05 289.10 341.17 90.04 120.05	42.11
32 31 19 00-0054	EA	9' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,423.03 309.52 362.96 96.07 128.09	47.31
32 31 19 00-0055	EA	10' Wide x 3' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,507.25 327.31 381.22 101.22 134.96	52.49
32 31 19 00-0056	EA	6' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,652.82 361.93 436.10 114.00 152.00	44.19
32 31 19 00-0057	EA	7' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,761.24 385.85 465.82 121.67 162.22	46.26
32 31 19 00-0058	EA	8' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,948.04 427.26 518.13 135.06 180.08	49.06
32 31 19 00-0059	EA	9' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,041.51 447.90 543.83 141.68 188.90	50.83
32 31 19 00-0060	EA	10' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,117.31 464.57 564.24 146.97 195.96	52.49
32 31 19 00-0061	EA	12' Wide x 3' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,381.86 521.76 629.60 164.48 219.31	62.86

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
32 31 19 00-0062	EA	14' Wide x 3' High Steel Tube Double Swing Gate		2,609.14		73.23
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		570.56		
		For Aluminum With Satin Finish, Add		683.78		
		For Third Rail, Add		179.19		
		For 1" Square x 14 Gauge Pickets, Add		238.92		
32 31 19 00-0063	EA	16' Wide x 3' High Steel Tube Double Swing Gate		2,799.26		84.34
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		610.85		
		For Aluminum With Satin Finish, Add		725.88		
		For Third Rail, Add		190.96		
		For 1" Square x 14 Gauge Pickets, Add		254.62		
32 31 19 00-0064	EA	18' Wide x 3' High Steel Tube Double Swing Gate		2,957.88		94.60
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		644.21		
		For Aluminum With Satin Finish, Add		759.47		
		For Third Rail, Add		200.52		
		For 1" Square x 14 Gauge Pickets, Add		267.37		
32 31 19 00-0065	EA	20' Wide x 3' High Steel Tube Double Swing Gate		3,087.08		104.98
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		670.94		
		For Aluminum With Satin Finish, Add		784.22		
		For Third Rail, Add		207.88		
		For 1" Square x 14 Gauge Pickets, Add		277.17		
32 31 19 00-0066 4' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)						
32 31 19 00-0067	EA	3' Wide x 4' High Steel Tube Single Swing Gate		913.51		20.74
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		200.29		
		For Aluminum With Satin Finish, Add		242.54		
		For Third Rail, Add		63.26		
		For 1" Square x 14 Gauge Pickets, Add		84.35		
32 31 19 00-0068	EA	3'-6" Wide x 4' High Steel Tube Single Swing Gate		988.68		24.17
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		217.01		
		For Aluminum With Satin Finish, Add		263.93		
		For Third Rail, Add		68.71		
		For 1" Square x 14 Gauge Pickets, Add		91.61		
32 31 19 00-0069	EA	4' Wide x 4' High Steel Tube Single Swing Gate		1,066.45		25.93
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		234.12		
		For Aluminum With Satin Finish, Add		284.93		
		For Third Rail, Add		74.15		
		For 1" Square x 14 Gauge Pickets, Add		98.87		
32 31 19 00-0070	EA	5' Wide x 4' High Steel Tube Single Swing Gate		1,130.48		27.59
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		248.13		
		For Aluminum With Satin Finish, Add		301.80		
		For Third Rail, Add		78.56		
		For 1" Square x 14 Gauge Pickets, Add		104.75		
32 31 19 00-0071	EA	6' Wide x 4' High Steel Tube Single Swing Gate		1,217.69		33.20
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		266.51		
		For Aluminum With Satin Finish, Add		320.50		
		For Third Rail, Add		83.86		
		For 1" Square x 14 Gauge Pickets, Add		111.81		
32 31 19 00-0072	EA	7' Wide x 4' High Steel Tube Single Swing Gate		1,336.30		38.69
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		291.95		
		For Aluminum With Satin Finish, Add		348.61		
		For Third Rail, Add		91.51		
		For 1" Square x 14 Gauge Pickets, Add		122.01		
32 31 19 00-0073	EA	8' Wide x 4' High Steel Tube Single Swing Gate		1,500.02		44.19
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		327.55		
		For Aluminum With Satin Finish, Add		390.26		
		For Third Rail, Add		102.54		
		For 1" Square x 14 Gauge Pickets, Add		136.72		
32 31 19 00-0074	EA	9' Wide x 4' High Steel Tube Single Swing Gate		1,659.80		49.79
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		362.25		
		For Aluminum With Satin Finish, Add		430.72		
		For Third Rail, Add		113.28		
		For 1" Square x 14 Gauge Pickets, Add		151.04		
32 31 19 00-0075	EA	10' Wide x 4' High Steel Tube Single Swing Gate		1,811.75		55.29
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add		395.20		
		For Aluminum With Satin Finish, Add		468.84		
		For Third Rail, Add		123.43		
		For 1" Square x 14 Gauge Pickets, Add		164.58		



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST		UNIT COST
32 31 19 00-0076	EA	6' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,827.01		46.68
32 31 19 00-0077	EA	7' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,977.35		48.34
32 31 19 00-0078	EA	8' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,132.89		51.87
32 31 19 00-0079	EA	9' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,255.77		53.52
32 31 19 00-0080	EA	10' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,359.04		55.29
32 31 19 00-0081	EA	12' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,676.66		66.28
32 31 19 00-0082	EA	14' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,955.06		77.38
32 31 19 00-0083	EA	16' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,196.18		88.37
32 31 19 00-0084	EA	18' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,403.95		99.48
32 31 19 00-0085	EA	20' Wide x 4' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,580.34		110.58
32 31 19 00-0086		5' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)			
32 31 19 00-0087	EA	3' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	994.56		24.17
32 31 19 00-0088	EA	3'-6" Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,048.79		25.93
32 31 19 00-0089	EA	4' Wide x 5' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,101.06		27.59

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 19 00-0090	EA	5' Wide x 5' High Steel Tube Single Swing Gate	1,176.86		29.35
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	258.18		
		For Aluminum With Satin Finish, Add	313.38		
		For Third Rail, Add	81.65		
		For 1" Square x 14 Gauge Pickets, Add	108.87		
32 31 19 00-0091	EA	6' Wide x 5' High Steel Tube Single Swing Gate	1,278.85		35.27
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	279.81		
		For Aluminum With Satin Finish, Add	336.04		
		For Third Rail, Add	87.98		
		For 1" Square x 14 Gauge Pickets, Add	117.30		
32 31 19 00-0092	EA	7' Wide x 5' High Steel Tube Single Swing Gate	1,414.17		41.08
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	308.93		
		For Aluminum With Satin Finish, Add	368.70		
		For Third Rail, Add	96.80		
		For 1" Square x 14 Gauge Pickets, Add	129.07		
32 31 19 00-0093	EA	8' Wide x 5' High Steel Tube Single Swing Gate	1,603.51		47.31
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	350.13		
		For Aluminum With Satin Finish, Add	417.10		
		For Third Rail, Add	109.60		
		For 1" Square x 14 Gauge Pickets, Add	146.14		
32 31 19 00-0094	EA	9' Wide x 5' High Steel Tube Single Swing Gate	1,787.87		53.21
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	390.29		
		For Aluminum With Satin Finish, Add	464.48		
		For Third Rail, Add	122.11		
		For 1" Square x 14 Gauge Pickets, Add	162.81		
32 31 19 00-0095	EA	10' Wide x 5' High Steel Tube Single Swing Gate	1,968.32		59.02
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	429.57		
		For Aluminum With Satin Finish, Add	510.68		
		For Third Rail, Add	134.32		
		For 1" Square x 14 Gauge Pickets, Add	179.09		
32 31 19 00-0096	EA	6' Wide x 5' High Steel Tube Double Swing Gate	1,960.29		40.76
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	432.34		
		For Aluminum With Satin Finish, Add	535.71		
		For Third Rail, Add	138.29		
		For 1" Square x 14 Gauge Pickets, Add	184.39		
32 31 19 00-0097	EA	7' Wide x 5' High Steel Tube Double Swing Gate	2,075.80		47.51
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	456.87		
		For Aluminum With Satin Finish, Add	561.64		
		For Third Rail, Add	145.50		
		For 1" Square x 14 Gauge Pickets, Add	194.00		
32 31 19 00-0098	EA	8' Wide x 5' High Steel Tube Double Swing Gate	2,192.46		54.67
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	481.58		
		For Aluminum With Satin Finish, Add	587.39		
		For Third Rail, Add	152.71		
		For 1" Square x 14 Gauge Pickets, Add	203.61		
32 31 19 00-0099	EA	9' Wide x 5' High Steel Tube Double Swing Gate	2,353.10		61.52
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	516.27		
		For Aluminum With Satin Finish, Add	626.86		
		For Third Rail, Add	163.30		
		For 1" Square x 14 Gauge Pickets, Add	217.74		
32 31 19 00-0100	EA	10' Wide x 5' High Steel Tube Double Swing Gate	2,494.12		68.25
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	546.54		
		For Aluminum With Satin Finish, Add	660.43		
		For Third Rail, Add	172.43		
		For 1" Square x 14 Gauge Pickets, Add	229.90		
32 31 19 00-0101	EA	12' Wide x 5' High Steel Tube Double Swing Gate	2,839.45		75.93
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	622.62		
		For Aluminum With Satin Finish, Add	754.28		
		For Third Rail, Add	196.70		
		For 1" Square x 14 Gauge Pickets, Add	262.27		
32 31 19 00-0102	EA	14' Wide x 5' High Steel Tube Double Swing Gate	3,149.81		84.23
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	690.65		
		For Aluminum With Satin Finish, Add	836.60		
		For Third Rail, Add	218.18		
		For 1" Square x 14 Gauge Pickets, Add	290.91		
32 31 19 00-0103	EA	16' Wide x 5' High Steel Tube Double Swing Gate	3,427.14		93.47
		Note: Includes mounting hardware and associated trim.			
		For Solid Pickets, Add	751.08		
		For Aluminum With Satin Finish, Add	907.99		
		For Third Rail, Add	237.01		
		For 1" Square x 14 Gauge Pickets, Add	316.01		



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0104	EA		18' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,676.51 804.96 969.45 253.49 337.98	103.83
32 31 19 00-0105	EA		20' Wide x 5' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,897.91 852.30 1,020.98 267.61 356.82	115.45
32 31 19 00-0106			6' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)		
32 31 19 00-0107	EA		3' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,035.17 226.92 274.61 71.65 95.53	26.55
32 31 19 00-0108	EA		3'-6" Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,088.36 238.58 288.70 75.33 100.43	28.00
32 31 19 00-0109	EA		4' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,142.29 250.35 302.68 79.00 105.34	29.57
32 31 19 00-0110	EA		5' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,208.59 264.85 320.10 83.56 111.42	31.43
32 31 19 00-0111	EA		6' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,355.80 296.50 355.39 93.13 124.17	37.96
32 31 19 00-0112	EA		7' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,512.80 330.35 393.63 103.43 137.90	44.61
32 31 19 00-0113	EA		8' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,688.41 368.46 437.91 115.19 153.59	50.83
32 31 19 00-0114	EA		9' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,857.20 404.96 479.67 126.38 168.50	57.37
32 31 19 00-0115	EA		10' Wide x 6' High Steel Tube Single Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,063.26 449.84 532.63 140.35 187.14	63.90
32 31 19 00-0116	EA		6' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,036.12 448.71 554.35 143.30 191.06	43.98
32 31 19 00-0117	EA		7' Wide x 6' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,155.87 474.03 580.53 150.65 200.87	51.56

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
32 31 19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate	2,274.49		58.71	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	499.18			
		For Aluminum With Satin Finish, Add	606.87			
		For Third Rail, Add	158.01			
		For 1" Square x 14 Gauge Pickets, Add	210.68			
32 31 19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate	2,417.80		66.28	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	529.80			
		For Aluminum With Satin Finish, Add	640.10			
		For Third Rail, Add	167.13			
		For 1" Square x 14 Gauge Pickets, Add	222.84			
32 31 19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate	2,643.47		73.86	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	578.95			
		For Aluminum With Satin Finish, Add	698.05			
		For Third Rail, Add	182.43			
		For 1" Square x 14 Gauge Pickets, Add	243.24			
32 31 19 00-0121	EA	12' Wide x 6' High Steel Tube Double Swing Gate	3,100.95		82.26	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	680.09			
		For Aluminum With Satin Finish, Add	824.51			
		For Third Rail, Add	214.94			
		For 1" Square x 14 Gauge Pickets, Add	286.59			
32 31 19 00-0122	EA	14' Wide x 6' High Steel Tube Double Swing Gate	3,246.02		91.90	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	710.67			
		For Aluminum With Satin Finish, Add	855.71			
		For Third Rail, Add	223.77			
		For 1" Square x 14 Gauge Pickets, Add	298.36			
32 31 19 00-0123	EA	16' Wide x 6' High Steel Tube Double Swing Gate	3,564.05		102.28	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	780.00			
		For Aluminum With Satin Finish, Add	937.77			
		For Third Rail, Add	245.40			
		For 1" Square x 14 Gauge Pickets, Add	327.20			
32 31 19 00-0124	EA	18' Wide x 6' High Steel Tube Double Swing Gate	3,856.08		113.79	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	843.23			
		For Aluminum With Satin Finish, Add	1,010.48			
		For Third Rail, Add	264.82			
		For 1" Square x 14 Gauge Pickets, Add	353.09			
32 31 19 00-0125	EA	20' Wide x 6' High Steel Tube Double Swing Gate	4,127.16		126.97	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	901.40			
		For Aluminum With Satin Finish, Add	1,074.87			
		For Third Rail, Add	282.32			
		For 1" Square x 14 Gauge Pickets, Add	376.43			
32 31 19 00-0126		7' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)				
32 31 19 00-0127	EA	3' Wide x 7' High Steel Tube Single Swing Gate	1,096.63		28.73	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	240.26			
		For Aluminum With Satin Finish, Add	290.10			
		For Third Rail, Add	75.77			
		For 1" Square x 14 Gauge Pickets, Add	101.02			
32 31 19 00-0128	EA	3'-6" Wide x 7' High Steel Tube Single Swing Gate	1,152.20		30.29	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	252.42			
		For Aluminum With Satin Finish, Add	304.72			
		For Third Rail, Add	79.59			
		For 1" Square x 14 Gauge Pickets, Add	106.12			
32 31 19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate	1,207.98		31.85	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	264.61			
		For Aluminum With Satin Finish, Add	319.31			
		For Third Rail, Add	83.42			
		For 1" Square x 14 Gauge Pickets, Add	111.22			
32 31 19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate	1,263.85		33.50	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	276.82			
		For Aluminum With Satin Finish, Add	333.88			
		For Third Rail, Add	87.24			
		For 1" Square x 14 Gauge Pickets, Add	116.32			
32 31 19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate	1,462.17		40.76	
		Note: Includes mounting hardware and associated trim.				
		For Solid Pickets, Add	319.81			
		For Aluminum With Satin Finish, Add	383.57			
		For Third Rail, Add	100.48			
		For 1" Square x 14 Gauge Pickets, Add	133.98			



Exterior Improvements		32
Site Improvements		32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0132	EA		7' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,643.76 359.11 428.72 112.55 150.06	47.71
32 31 19 00-0133	EA		8' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,775.40 387.10 458.40 120.79 161.05	54.87
32 31 19 00-0134	EA		9' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	1,925.61 419.34 494.13 130.50 173.99	61.82
32 31 19 00-0135	EA		10' Wide x 7' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,110.21 459.24 539.71 142.71 190.28	69.08
32 31 19 00-0136	EA		6' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,155.10 474.80 585.94 151.53 202.05	47.09
32 31 19 00-0137	EA		7' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,279.92 501.17 613.11 159.18 212.25	55.09
32 31 19 00-0138	EA		8' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,405.87 527.71 640.12 166.83 222.45	63.48
32 31 19 00-0139	EA		9' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,532.66 554.53 667.89 174.63 232.84	71.47
32 31 19 00-0140	EA		10' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	2,852.82 624.77 753.16 196.85 262.46	79.87
32 31 19 00-0141	EA		12' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,449.90 757.14 920.47 239.66 319.55	89.10
32 31 19 00-0142	EA		14' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,410.08 745.87 894.66 234.36 312.48	99.90
32 31 19 00-0143	EA		16' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,694.26 807.33 965.02 253.19 337.59	111.41
32 31 19 00-0144	EA		18' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,034.00 880.95 1,050.00 275.85 367.80	124.58
32 31 19 00-0145	EA		20' Wide x 7' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,257.51 928.16 1,098.57 289.53 386.04	139.00

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 19 00-0146	8' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)			
32 31 19 00-0147	EA 3' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,191.85		31.12
	For Solid Pickets, Add	261.17		
	For Aluminum With Satin Finish, Add	315.55		
	For Third Rail, Add	82.39		
	For 1" Square x 14 Gauge Pickets, Add	109.85		
32 31 19 00-0148	EA 3'-6" Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,250.01		32.78
	For Solid Pickets, Add	273.86		
	For Aluminum With Satin Finish, Add	330.66		
	For Third Rail, Add	86.36		
	For 1" Square x 14 Gauge Pickets, Add	115.15		
32 31 19 00-0149	EA 4' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,312.08		34.55
	For Solid Pickets, Add	287.44		
	For Aluminum With Satin Finish, Add	346.95		
	For Third Rail, Add	90.63		
	For 1" Square x 14 Gauge Pickets, Add	120.84		
32 31 19 00-0150	EA 5' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,367.16		38.48
	For Solid Pickets, Add	298.94		
	For Aluminum With Satin Finish, Add	358.10		
	For Third Rail, Add	93.86		
	For 1" Square x 14 Gauge Pickets, Add	125.15		
32 31 19 00-0151	EA 6' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,617.59		43.56
	For Solid Pickets, Add	354.16		
	For Aluminum With Satin Finish, Add	426.46		
	For Third Rail, Add	111.52		
	For 1" Square x 14 Gauge Pickets, Add	148.69		
32 31 19 00-0152	EA 7' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,799.53		52.49
	For Solid Pickets, Add	393.07		
	For Aluminum With Satin Finish, Add	468.91		
	For Third Rail, Add	123.14		
	For 1" Square x 14 Gauge Pickets, Add	164.19		
32 31 19 00-0153	EA 8' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	1,878.42		61.10
	For Solid Pickets, Add	408.87		
	For Aluminum With Satin Finish, Add	480.91		
	For Third Rail, Add	127.11		
	For 1" Square x 14 Gauge Pickets, Add	169.48		
32 31 19 00-0154	EA 9' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	2,013.28		70.12
	For Solid Pickets, Add	437.20		
	For Aluminum With Satin Finish, Add	509.23		
	For Third Rail, Add	135.20		
	For 1" Square x 14 Gauge Pickets, Add	180.27		
32 31 19 00-0155	EA 10' Wide x 8' High Steel Tube Single Swing Gate Note: Includes mounting hardware and associated trim.	2,130.47		79.14
	For Solid Pickets, Add	461.54		
	For Aluminum With Satin Finish, Add	532.25		
	For Third Rail, Add	141.97		
	For 1" Square x 14 Gauge Pickets, Add	189.29		
32 31 19 00-0156	EA 6' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,342.72		50.31
	For Solid Pickets, Add	516.33		
	For Aluminum With Satin Finish, Add	638.12		
	For Third Rail, Add	164.92		
	For 1" Square x 14 Gauge Pickets, Add	219.90		
32 31 19 00-0157	EA 7' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,482.24		60.68
	For Solid Pickets, Add	545.50		
	For Aluminum With Satin Finish, Add	666.62		
	For Third Rail, Add	173.16		
	For 1" Square x 14 Gauge Pickets, Add	230.88		
32 31 19 00-0158	EA 8' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,618.65		70.64
	For Solid Pickets, Add	574.05		
	For Aluminum With Satin Finish, Add	694.71		
	For Third Rail, Add	181.25		
	For 1" Square x 14 Gauge Pickets, Add	241.67		
32 31 19 00-0159	EA 9' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	2,732.67		81.12
	For Solid Pickets, Add	597.48		
	For Aluminum With Satin Finish, Add	715.57		
	For Third Rail, Add	187.58		
	For 1" Square x 14 Gauge Pickets, Add	250.10		
32 31 19 00-0160	EA 10' Wide x 8' High Steel Tube Double Swing Gate Note: Includes mounting hardware and associated trim.	3,176.24		91.49
	For Solid Pickets, Add	695.06		
	For Aluminum With Satin Finish, Add	835.29		
	For Third Rail, Add	218.62		
	For 1" Square x 14 Gauge Pickets, Add	291.49		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,960.61 869.06 1,055.71 274.97 366.62	103.00
32 31 19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,617.72 789.08 935.90 246.43 328.57	116.18
32 31 19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	3,872.93 843.25 992.95 262.31 349.75	131.43
32 31 19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,268.07 928.57 1,089.92 288.36 384.47	148.12
32 31 19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate..... Note: Includes mounting hardware and associated trim. For Solid Pickets, Add For Aluminum With Satin Finish, Add For Third Rail, Add For 1" Square x 14 Gauge Pickets, Add	4,353.07 943.67 1,091.29 290.71 387.61	166.90
32 31 19 00-0166		Replace Steel Tube Fence Pickets (32 31 19 00-0032)		
32 31 19 00-0167	LF	Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket For 1" Square x 14 Gauge Pickets, Add	30.79 1.01	
32 31 19 00-0168		Removal And Reinstallation Of Ornamental Fences (32 31 19) Note: Including storage and cleaning. Excludes augering and concrete.		
32 31 19 00-0169	LF	Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	46.68	
32 31 19 00-0170	LF	Removal And Reinstallation Of Ornamental Fence, 6' Height	51.34	
32 31 19 00-0171	LF	Removal And Reinstallation Of Ornamental Fence, 7' Height	56.02	
32 31 19 00-0172	LF	Removal And Reinstallation Of Ornamental Fence, 8' Height	60.68	
32 31 19 00-0173	LF	Removal And Reinstallation Of Ornamental Fence, 9' Height	65.35	
32 31 19 00-0174	LF	Removal And Reinstallation Of Ornamental Fence, 10' Height	70.02	
32 31 19 00-0175	LF	Removal And Reinstallation Of Ornamental Fence 12' Height	77.80	
32 31 23		Plastic Fences and Gates (32 31)		
32 31 23 00-0001		Vinyl Fence (32 31 23)		
32 31 23 00-0002		Privacy Tongue And Groove Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Post includes flat cap.		
32 31 23 00-0003	LF	3' High Privacy Tongue And Groove Vinyl Fence	60.69	6.80
32 31 23 00-0004	LF	4' High Privacy Tongue And Groove Vinyl Fence	68.09	8.16
32 31 23 00-0005	LF	5' High Privacy Tongue And Groove Vinyl Fence	76.07	9.52
32 31 23 00-0006	LF	6' High Privacy Tongue And Groove Vinyl Fence	83.91	10.88
32 31 23 00-0007		Semi-Privacy 6" Picket Vinyl Fence (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0008	LF	5' High Semi-Privacy 6" Picket Vinyl Fence.....	81.38	9.52
32 31 23 00-0009	LF	6' High Semi-Privacy 6" Picket Vinyl Fence.....	89.27	10.88
32 31 23 00-0010		Picket Straight Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0011	LF	3' High Picket Straight Top Vinyl Fence.....	56.01	6.80
32 31 23 00-0012	LF	4' High Picket Straight Top Vinyl Fence.....	63.66	8.16
32 31 23 00-0013	LF	5' High Picket Straight Top Vinyl Fence.....	72.97	9.52
32 31 23 00-0014	LF	6' High Picket Straight Top Vinyl Fence.....	80.87	10.88
32 31 23 00-0015		Picket Scalloped Top Vinyl Fence (32 31 23 00-0001) Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.		
32 31 23 00-0016	LF	3' High Picket Scalloped Top Vinyl Fence	62.03	6.80
32 31 23 00-0017	LF	4' High Picket Scalloped Top Vinyl Fence	69.86	8.16
32 31 23 00-0018	LF	5' High Picket Scalloped Top Vinyl Fence	78.77	9.52
32 31 23 00-0019	LF	6' High Picket Scalloped Top Vinyl Fence	86.85	10.88

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0020	Post And Rail Vinyl Fence, Ranch Style (32 31 23 00-0001) Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Post includes flat cap.			
32 31 23 00-0021	LF	5' High, 2 Rail, Post And Rail Vinyl Fence	23.13	6.80
32 31 23 00-0022	LF	6-1/2' High, 3 Rail, Post And Rail Vinyl Fence	29.63	8.16
32 31 23 00-0023	LF	7' High, 4 Rail, Post And Rail Vinyl Fence	34.05	8.85
32 31 23 00-0024	Post, Rails And Pickets (Traditional Style) Vinyl Fence (32 31 23 00-0001) Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Post includes flat cap.			
32 31 23 00-0025	LF	3' High Rail And Picket Vinyl Fence, 72" On Center Posts	72.59	7.48
32 31 23 00-0026	LF	4' High Rail And Picket Vinyl Fence, 72" On Center Posts	79.36	8.85
32 31 23 00-0027	LF	3' High Rail And Picket Vinyl Fence, 96" On Center Posts	68.44	6.80
32 31 23 00-0028	LF	4' High Rail And Picket Vinyl Fence, 96" On Center Posts	74.54	8.16
32 31 23 00-0029	Vinyl Gates (32 31 23)			
32 31 23 00-0030	Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0029) Note: Includes hinges.			
32 31 23 00-0031	3' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)			
32 31 23 00-0032	EA	3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	670.73	68.02
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0033	EA	3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	711.63	71.42
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0034	EA	3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	780.43	74.81
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0035	EA	3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	874.02	78.22
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0036	4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)			
32 31 23 00-0037	EA	4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	711.63	71.42
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038	EA	4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	737.03	74.81
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039	EA	4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	818.23	78.22
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040	EA	4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	958.30	81.62
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0041	5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)			
32 31 23 00-0042	EA	5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	737.03	74.81
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043	EA	5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	768.63	78.22
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0044	EA	5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	880.81	81.62
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0045	EA	5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	1,027.11	85.02
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0046	6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)			
32 31 23 00-0047	EA	6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	775.42	81.62
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0048	EA	6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	807.03	85.02
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0049	EA	6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	971.91	88.42
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0050	EA	6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	1,071.71	88.42
		For Self-Closing Hinge Set, Add	14.50	
		For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0051	Gates For Picket Fences (32 31 23 00-0029) Note: Includes hinges.			



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0052			3' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0053	EA		3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	642.83	68.02
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0054	EA		3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	668.23	71.42
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0055	EA		3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	749.43	74.81
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0056	EA		3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	889.52	78.22
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0057			4' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0058	EA		4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	649.63	71.42
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0059	EA		4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	675.04	74.81
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0060	EA		4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	756.23	78.22
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0061	EA		4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	896.31	81.62
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0062			5' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0063	EA		5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	675.04	74.81
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0064	EA		5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	706.64	78.22
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0065	EA		5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	818.82	81.62
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0066	EA		5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	965.11	85.02
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0067			6' High Gates For Picket Fences (32 31 23 00-0051)		
32 31 23 00-0068	EA		6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	713.43	81.62
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0069	EA		6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	745.03	85.02
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0070	EA		6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	909.92	88.42
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0071	EA		6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	1,009.72	91.82
			For Self-Closing Hinge Set, Add	14.50	
			For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0072			Gates Accessories (32 31 23 00-0029)		
32 31 23 00-0073	EA		Gate Stop/Drop Rod	145.58	
32 31 23 00-0074	EA		Latch Set	100.63	
32 31 23 00-0075	EA		Stainless Steel Latch Set.....	145.58	
32 31 26			Wire Fences and Gates (32 31)		
32 31 26 13			Wire Fences with Steel Posts (32 31 26)		
32 31 26 13-0001			Chicken Wire (32 31 26 13)		
			Note: Posts at 4'.		
32 31 26 13-0002	LF		4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.94	1.86
32 31 26 13-0003	LF		6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	9.73	1.86
32 31 26 13-0004			Wire And Screen (32 31 26 13)		
32 31 26 13-0005			Wire And Screen For Partitions And Fences (32 31 26 13-0004)		
			Note: Excludes framing and post.		
32 31 26 13-0006			Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007	LF		Screen Wire, 48" Wide Rolls.....	15.39	1.37

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 26 13-0008		Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009	SF	4" x 4" Hog Wire For Fencing	2.75	1.10
32 31 26 13-0010	SF	6" x 6" Hog Wire For Fencing	2.88	1.23
32 31 26 13-0011		Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012	LF	4' Non-Climb Woven, 12.5 Gauge, Horse Fence	12.46	4.38
32 31 26 13-0013	LF	5' Non-Climb Woven, 12.5 Gauge, Horse Fence	15.96	5.48
32 31 26 13-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence	19.99	6.57
32 31 26 13-0015		Screen For Partitions And Ceilings (32 31 26 13-0004)		
		Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF	1" Mesh Chicken Wire	2.49	0.77
32 31 26 13-0017		Wicket Fence (32 31 26 13)		
32 31 26 13-0018	LF	Steel Wicket Fence, Painted.....	79.93	5.55
32 31 29		Wood Fences and Gates (32 31)		
		See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001		Basket Weave (32 31 29)		
		Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post.....	46.79	3.73
		For Fastening With Screws Instead Of Nails, Add	2.73	
32 31 29 00-0003	LF	6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	30.51	3.73
		For Fastening With Screws Instead Of Nails, Add	1.94	
32 31 29 00-0004		Board Fence (32 31 29)		
		Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF	Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence.....	29.81	3.73
		For 1" x 6" Boards, Deduct	-3.08	
		For 1" x 3" Boards (Stockade Top), Add	3.81	
		For Fastening With Screws Instead Of Nails, Add	1.92	
32 31 29 00-0006	LF	Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence.....	33.22	3.73
		For 1" x 6" Boards, Deduct	-3.36	
		For 1" x 3" Boards (Stockade Top), Add	4.13	
		For Fastening With Screws Instead Of Nails, Add	2.12	
32 31 29 00-0007	LF	Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence	37.19	3.73
		For 1" x 6" Boards, Deduct	-3.60	
		For 1" x 3" Boards (Stockade Top), Add	4.37	
		For Fastening With Screws Instead Of Nails, Add	2.34	
32 31 29 00-0008	LF	Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence	39.75	3.73
		For 1" x 6" Boards, Deduct	-3.78	
		For 1" x 3" Boards (Stockade Top), Add	4.58	
		For Fastening With Screws Instead Of Nails, Add	2.49	
32 31 29 00-0009	LF	Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence	42.52	3.73
		For 1" x 6" Boards, Deduct	-3.98	
		For 1" x 3" Boards (Stockade Top), Add	4.79	
		For Fastening With Screws Instead Of Nails, Add	2.64	
32 31 29 00-0010	LF	Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	31.94	3.73
		For 1" x 6" Boards, Deduct	-3.17	
		For 1" x 3" Boards (Stockade Top), Add	3.88	
		For Fastening With Screws Instead Of Nails, Add	2.03	
32 31 29 00-0011	LF	Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	34.86	3.73
		For 1" x 6" Boards, Deduct	-3.42	
		For 1" x 3" Boards (Stockade Top), Add	4.18	
		For Fastening With Screws Instead Of Nails, Add	2.20	
32 31 29 00-0012	LF	Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence.....	37.19	3.73
		For 1" x 6" Boards, Deduct	-3.60	
		For 1" x 3" Boards (Stockade Top), Add	4.37	
		For Fastening With Screws Instead Of Nails, Add	2.34	
32 31 29 00-0013	LF	Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence.....	39.75	3.73
		For 1" x 6" Boards, Deduct	-3.78	
		For 1" x 3" Boards (Stockade Top), Add	4.58	
		For Fastening With Screws Instead Of Nails, Add	2.49	
32 31 29 00-0014	LF	Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence.....	42.52	3.73
		For 1" x 6" Boards, Deduct	-3.98	
		For 1" x 3" Boards (Stockade Top), Add	4.79	
		For Fastening With Screws Instead Of Nails, Add	2.64	
32 31 29 00-0015	LF	Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence	31.95	3.73
		For 1" x 6" Boards, Deduct	-3.17	
		For 1" x 3" Boards (Stockade Top), Add	3.88	
		For Fastening With Screws Instead Of Nails, Add	2.03	
32 31 29 00-0016	LF	Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence	42.14	3.73
		For 1" x 6" Boards, Deduct	-3.72	
		For 1" x 3" Boards (Stockade Top), Add	4.40	
		For Fastening With Screws Instead Of Nails, Add	2.57	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0017	LF		Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	44.16 -3.87 4.58 2.69	3.73
32 31 29 00-0018	LF		Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	47.55 -4.09 4.81 2.88	3.73
32 31 29 00-0019	LF		Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence..... <i>For 1" x 6" Boards, Deduct</i> <i>For 1" x 3" Boards (Stockade Top), Add</i> <i>For Fastening With Screws Instead Of Nails, Add</i>	51.22 -4.33 5.06 3.08	3.73
32 31 29 00-0020			Shadow Box (32 31 29) Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF		Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine <i>For Fastening With Screws Instead Of Nails, Add</i>	65.31 3.65	3.73
32 31 29 00-0022	LF		Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	82.14 4.57	3.73
32 31 29 00-0023	LF		Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	89.55 4.96	3.73
32 31 29 00-0024	LF		Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	96.24 5.33	3.73
32 31 29 00-0025			Open Rail Fence (32 31 29)		
32 31 29 00-0026			Post And Rail Fence, Ranch Style (32 31 29 00-0025)		
32 31 29 00-0027	LF		Post And Rail Fence, 2 Rails, 3' High #1 Cedar	29.93	3.73
32 31 29 00-0028	LF		Post And Rail Fence, 2 Rails, 3' High #2 Cedar	23.17	3.73
32 31 29 00-0029	LF		Post And Rail Fence, 3 Rails, 4' High #1 Cedar	35.57	3.73
32 31 29 00-0030	LF		Post And Rail Fence, 3 Rails, 4' High #2 Cedar	25.03	3.73
32 31 29 00-0031			Split Rail Fence (32 31 29 00-0025)		
32 31 29 00-0032	LF		Split Rail Fence, 2 Rails, 3' High #1 Cedar	28.19	3.73
32 31 29 00-0033	LF		Split Rail Fence, 2 Rails, 3' High #2 Cedar	23.09	3.73
32 31 29 00-0034	LF		Split Rail Fence, 3 Rail, 4' High #1 Cedar	32.25	3.73
32 31 29 00-0035	LF		Split Rail Fence, 3 Rail, 4' High #2 Cedar	26.01	3.73
32 31 29 00-0036			Picket Fence (32 31 29)		
32 31 29 00-0037	LF		Picket Fence, 2 Rail, 3' High, Pressure Treated <i>For Fastening With Screws Instead Of Nails, Add</i>	34.20 2.15	3.73
32 31 29 00-0038	LF		Picket Fence, 2 Rail, 3' High #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i>	31.87 2.04	3.73
32 31 29 00-0039			Wood Fence Post Accessories (32 31 29)		
32 31 29 00-0040	EA		3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap.....	47.37	
32 31 29 00-0041	EA		4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap	53.17	
32 31 29 00-0042	EA		6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap	57.88	
32 31 29 00-0043	EA		8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap	85.84	
32 31 29 00-0044			Wood Gate (32 31 29)		
32 31 29 00-0045			Board Fence Gates, Pressure Treated Wood (32 31 29 00-0044) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046	EA		3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	490.93	153.14
32 31 29 00-0047	EA		3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	542.54	162.33
32 31 29 00-0048	EA		3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	606.40	177.64
32 31 29 00-0049	EA		3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	687.56	186.83
32 31 29 00-0050	EA		3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	768.72	196.02
32 31 29 00-0051	EA		>5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	625.87	202.15
32 31 29 00-0052	EA		>5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	681.18	211.34
32 31 29 00-0053	EA		>5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	736.47	220.53
32 31 29 00-0054	EA		>5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	828.71	229.71
32 31 29 00-0055	EA		>5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	902.47	238.90
32 31 29 00-0056			Board Fence Gates, Grade 2 Cedar (32 31 29 00-0044) Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057	EA		3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	731.61	116.53
32 31 29 00-0058	EA		3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	756.68	123.53
32 31 29 00-0059	EA		3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	794.75	135.19
32 31 29 00-0060	EA		3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	838.28	142.17
32 31 29 00-0061	EA		3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	892.88	149.17

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0062	EA	>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	861.59	153.83
32 31 29 00-0063	EA	>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	894.02	160.83
32 31 29 00-0064	EA	>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	944.94	167.81
32 31 29 00-0065	EA	>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	995.85	174.81
32 31 29 00-0066	EA	>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,046.77	181.80
32 31 29 00-0067 Board Fence Gates, Grade 1 Cedar (32 31 29 00-0044)				
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)				
32 31 29 00-0068	EA	3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	787.00	116.53
32 31 29 00-0069	EA	3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	819.45	123.53
32 31 29 00-0070	EA	3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	861.22	135.19
32 31 29 00-0071	EA	3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	912.14	142.17
32 31 29 00-0072	EA	3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	963.04	149.17
32 31 29 00-0073	EA	>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	935.45	153.83
32 31 29 00-0074	EA	>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	967.88	160.83
32 31 29 00-0075	EA	>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,018.80	167.81
32 31 29 00-0076	EA	>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,069.71	174.81
32 31 29 00-0077	EA	>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	1,139.09	181.80
32 31 29 00-0078 Pressure Treated Wood Fence Posts (32 31 29)				
See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0684 for barbed wire, 32 31 56 00-0017 for barbed wire.				
32 31 29 00-0079	EA	4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	46.77	15.32
32 31 29 00-0080	EA	6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	52.60	15.32
32 31 29 00-0081	EA	4' High, Pressure Treated Wood Fence Posts, Set In Concrete	82.44	29.41
32 31 29 00-0082	EA	6' High, Pressure Treated Wood Fence Posts, Set In Concrete	89.09	29.41
32 31 29 00-0083 Wood Utility Pole Fence (32 31 29)				
Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.				
32 31 29 00-0084	LF	Wood Utility Pole Barrier Fence	57.28	3.73
Note: Includes notching post, drilling and pinned with #5 rebar.				
32 31 29 00-0085 Wood Rail Fence (32 31 29)				
Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill				
32 31 29 00-0086	LF	4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	28.96	3.73
32 31 34 Tubular Barrier Gates (32 31)				
32 31 34 00-0001 Pipe Gate (32 31 34)				
Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.				
32 31 34 00-0002	EA	20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	4,229.93	
32 31 34 00-0003	EA	25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	5,291.45	
32 31 34 00-0004	EA	30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier)	6,306.49	
32 31 41 Precast Concrete Fences (32 31)				
32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. (32 31 41)				
Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.				
32 31 41 00-0002	LF	Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury	71.90	3.73
Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.				
32 31 56 Wild Life Deterrent Fence (32 31)				
32 31 56 00-0001 Barbed Wire Fences (32 31 56)				
Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.				
32 31 56 00-0002 Fence Posts (32 31 56 00-0001)				
32 31 56 00-0003 Fence Post Soil, Set In Concrete (32 31 56 00-0002)				
32 31 56 00-0004	EA	Barbed Wire Fence Post, Galvanized Set In Concrete In Soil	107.51	8.30
For Bracing On Corner Post, End Post And Pull Post, Add			173.66	
32 31 56 00-0005	EA	Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil	145.45	8.30
For Bracing On Corner Post, End Post And Pull Post, Add			237.02	
32 31 56 00-0006 Post In Rock (32 31 56 00-0002)				
32 31 56 00-0007	EA	Barbed Wire Fence Post, Galvanized Grouted In Rock	105.69	8.30
For Bracing On Corner Post, End Post And Pull Post, Add			170.93	
32 31 56 00-0008	EA	Barbed Wire Fence Post, Vinyl Coated Grouted In Rock	143.63	8.30
For Bracing On Corner Post, End Post And Pull Post, Add			234.29	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish (32 31 56 00-0001)

Note: Posts for barb wire, chain link or welded wire mesh.

32 31 56 00-0010	EA	5' Studded Steel T-Post, Driven Into Earth	27.42	
32 31 56 00-0011	EA	5'-6" Studded Steel T-Post, Driven Into Earth	28.10	
32 31 56 00-0012	EA	6' Studded Steel T-Post, Driven Into Earth	29.39	
32 31 56 00-0013	EA	6'-6" Studded Steel T-Post, Driven Into Earth	30.69	
32 31 56 00-0014	EA	7' Studded Steel T-Post, Driven Into Earth	32.39	
32 31 56 00-0015	EA	8' Studded Steel T-Post, Driven Into Earth	36.54	
32 31 56 00-0016	EA	10' Studded Steel T-Post, Driven Into Earth	44.63	

32 31 56 00-0017 Barbed Wire (32 31 56 00-0001)

Note: Per strand.

32 31 56 00-0018	LF	Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.92	0.42
32 31 56 00-0019	LF	Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand	1.07	0.42

32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts (32 31 56 00-0001)

Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.

32 31 56 00-0021	LF	4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts	11.93	2.70

Note: Posts at 10' maximum.

32 32 Retaining Walls (32 30)

32 32 13 Cast-In-Place Concrete Retaining Wall (32 32)

Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0001 Concrete Retaining Walls (32 32 13)

Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.

32 32 13 00-0002	LF	4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	407.50	149.41
For >3:1 Sloped Soil At Top, Add			9.25	
32 32 13 00-0003	LF	6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	508.26	183.85
For >3:1 Sloped Soil At Top, Add			11.94	
32 32 13 00-0004	LF	8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	553.58	198.31
For >3:1 Sloped Soil At Top, Add			13.34	
32 32 13 00-0005	LF	10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	705.00	245.20
For >3:1 Sloped Soil At Top, Add			18.25	
32 32 13 00-0006	LF	12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	812.48	281.65
For >3:1 Sloped Soil At Top, Add			21.17	
32 32 13 00-0007	LF	16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,175.52	413.18
For >3:1 Sloped Soil At Top, Add			29.69	
32 32 13 00-0008	LF	20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,613.84	570.42
For >3:1 Sloped Soil At Top, Add			40.19	
32 32 13 00-0009	LF	4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	447.78	163.17
For >3:1 Sloped Soil At Top, Add			10.32	
32 32 13 00-0010	LF	6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	548.02	196.60
For >3:1 Sloped Soil At Top, Add			13.17	
32 32 13 00-0011	LF	8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	580.19	205.14
For >3:1 Sloped Soil At Top, Add			14.44	
32 32 13 00-0012	LF	10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	797.98	274.92
For >3:1 Sloped Soil At Top, Add			21.08	
32 32 13 00-0013	LF	12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,011.92	353.14
For >3:1 Sloped Soil At Top, Add			25.98	
32 32 13 00-0014	LF	16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,517.51	535.28
For >3:1 Sloped Soil At Top, Add			38.00	
32 32 13 00-0015	LF	20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	2,141.67	755.58
For >3:1 Sloped Soil At Top, Add			53.59	

32 32 16 Precast Concrete Retaining Walls (32 32)

32 32 16 00-0001 Precast Retaining Walls (32 32 16)

Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.

32 32 16 00-0002	SF	10-15' High, Tied-back, Precast Concrete Retaining Walls	106.79	15.57
32 32 16 00-0003	SF	16-20' High, Tied-back, Precast Concrete Retaining Walls	109.63	12.51
32 32 16 00-0004	SF	21-25' High, Tied-back, Precast Concrete Retaining Walls	113.70	10.42
32 32 16 00-0005	SF	26-30' High, Tied-back, Precast Concrete Retaining Walls	122.94	10.42
32 32 16 00-0006	SF	>30' High, Tied-back, Precast Concrete Retaining Walls	130.05	8.90

32 32 23 Segmental Retaining Walls (32 32)

32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls (32 32 23)

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 32 23 13-0001	Modular Retaining Wall Systems (32 32 23 13)			
	Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.			
32 32 23 13-0002	"Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)			
32 32 23 13-0003	SF	Up To 4' Height "Amastone" Type Modular Retaining Wall System	74.38	9.58
		For >3:1 Sloped Soil At Top, Add	4.69	
32 32 23 13-0004	SF	4 To 8' Height "Amastone" Type Modular Retaining Wall System	78.48	10.09
		For >3:1 Sloped Soil At Top, Add	4.96	
32 32 23 13-0005	SF	8 To 12' Height "Amastone" Type Modular Retaining Wall System	81.81	11.09
		For >3:1 Sloped Soil At Top, Add	5.07	
32 32 23 13-0006	SF	12 To 16' Height "Amastone" Type Modular Retaining Wall System	85.35	12.11
		For >3:1 Sloped Soil At Top, Add	5.20	
32 32 23 13-0007	"Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)			
32 32 23 13-0008	SF	Up To 4' Height "Diamond" Type Modular Retaining Wall System	77.27	9.58
		For >3:1 Sloped Soil At Top, Add	4.94	
32 32 23 13-0009	SF	4 To 8' Height "Diamond" Type Modular Retaining Wall System	81.37	10.09
		For >3:1 Sloped Soil At Top, Add	5.20	
32 32 23 13-0010	SF	8 To 12' Height "Diamond" Type Modular Retaining Wall System	84.70	11.09
		For >3:1 Sloped Soil At Top, Add	5.31	
32 32 23 13-0011	SF	12 To 16' Height "Diamond" Type Modular Retaining Wall System	88.24	12.11
		For >3:1 Sloped Soil At Top, Add	5.44	
32 32 23 13-0012	"Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)			
32 32 23 13-0013	SF	Up To 4' Height "Keystone" Type Modular Retaining Wall System	84.16	9.58
		For >3:1 Sloped Soil At Top, Add	5.53	
32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System	88.27	10.09
		For >3:1 Sloped Soil At Top, Add	5.79	
32 32 23 13-0015	SF	8 To 12' Height "Keystone" Type Modular Retaining Wall System	91.60	11.09
		For >3:1 Sloped Soil At Top, Add	5.90	
32 32 23 13-0016	SF	12 To 16' Height "Keystone" Type Modular Retaining Wall System	95.13	12.11
		For >3:1 Sloped Soil At Top, Add	6.03	
32 32 23 13-0017	"Criblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)			
32 32 23 13-0018	SF	Up To 4' Height "Criblock" Type Modular Retaining Wall System	74.38	9.58
		For >3:1 Sloped Soil At Top, Add	4.69	
		For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0019	SF	4 To 8' Height "Criblock" Type Modular Retaining Wall System	78.48	10.09
		For >3:1 Sloped Soil At Top, Add	4.96	
		For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0020	SF	8 To 12' Height "Criblock" Type Modular Retaining Wall System	81.81	11.09
		For >3:1 Sloped Soil At Top, Add	5.07	
		For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0021	SF	12 To 16' Height "Criblock" Type Modular Retaining Wall System	85.35	12.11
		For >3:1 Sloped Soil At Top, Add	5.20	
		For Gravel Backfill Instead Of Earth, Add	0.25	
32 32 23 13-0022	"Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)			
32 32 23 13-0023	SF	Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System	65.63	9.58
		For >3:1 Sloped Soil At Top, Add	3.95	
32 32 23 13-0024	SF	4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System	72.61	10.09
		For >3:1 Sloped Soil At Top, Add	4.46	
32 32 23 13-0025	SF	8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System	75.99	11.09
		For >3:1 Sloped Soil At Top, Add	4.57	
32 32 23 13-0026	SF	12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System	78.99	12.11
		For >3:1 Sloped Soil At Top, Add	4.66	
32 32 23 13-0027	Retaining Wall Cap Block Restoration (32 32 23 13-0001)			
	Note: Includes removal of existing cap block and installation of new cap block to match.			
32 32 23 13-0028	LF	Removal And Reinstall Retaining Wall Cap Block And Pins	44.51	
		For >3:1 Sloped Soil At Top, Add	2.51	
32 32 26	Metal Crib Retaining Walls (32 32)			
32 32 26 00-0001	Aluminized Steel Bin (32 32 26)			
	Note: Excludes excavation and backfill.			
32 32 26 00-0002	SF	4' High, 5.5' Deep Aluminized Steel Bin	46.61	5.25
		For >3:1 Sloped Soil At Top, Add	3.07	
		For Galvanized Type, Deduct	-3.61	
32 32 26 00-0003	SF	8' High, 5.5' Deep Aluminized Steel Bin	52.20	5.25
		For >3:1 Sloped Soil At Top, Add	3.54	
		For Galvanized Type, Deduct	-4.16	
32 32 26 00-0004	SF	10' High, 7.7' Deep Aluminized Steel Bin	55.75	5.73
		For >3:1 Sloped Soil At Top, Add	3.77	
		For Galvanized Type, Deduct	-4.43	



Exterior Improvements			32
Site Improvements			32 30
Retaining Walls			32 32

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0005	SF		12' High, 7.7' Deep Aluminized Steel Bin.....	63.51	6.47
			For >3:1 Sloped Soil At Top, Add	4.30	
			For Galvanized Type, Deduct	-5.06	
32 32 26 00-0006	SF		16' High, 7.7' Deep Aluminized Steel Bin.....	61.15	6.71
			For >3:1 Sloped Soil At Top, Add	4.07	
			For Galvanized Type, Deduct	-4.78	
32 32 26 00-0007	SF		16' High, 9.9' Deep Aluminized Steel Bin.....	68.17	6.83
			For >3:1 Sloped Soil At Top, Add	4.64	
			For Galvanized Type, Deduct	-5.46	
32 32 26 00-0008	SF		20' High, 9.9' Deep Aluminized Steel Bin.....	75.62	7.20
			For >3:1 Sloped Soil At Top, Add	5.19	
			For Galvanized Type, Deduct	-6.11	
32 32 26 00-0009	SF		20' High, 12.1' Deep Aluminized Steel Bin.....	77.42	7.57
			For >3:1 Sloped Soil At Top, Add	5.30	
			For Galvanized Type, Deduct	-6.24	
32 32 26 00-0010	SF		24' High, 12.1' Deep Aluminized Steel Bin.....	81.46	7.57
			For >3:1 Sloped Soil At Top, Add	5.64	
			For Galvanized Type, Deduct	-6.63	
32 32 26 00-0011	SF		24' High, 14.3' Deep Aluminized Steel Bin.....	85.48	7.70
			For >3:1 Sloped Soil At Top, Add	5.97	
			For Galvanized Type, Deduct	-7.02	
32 32 26 00-0012	SF		28' High, 14.3' Deep Aluminized Steel Bin.....	88.34	7.81
			For >3:1 Sloped Soil At Top, Add	6.19	
			For Galvanized Type, Deduct	-7.28	

32 32 29 Timber Retaining Walls (32 32)**32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)**

Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0002	LF		4" x 4", 1' High, Redwood, Wood Post Retaining Walls.....	91.58	33.57
			For >3:1 Sloped Soil At Top, Add	2.09	
32 32 29 00-0003	LF		4" x 4", 2' High, Redwood, Wood Post Retaining Walls.....	179.25	65.72
			For >3:1 Sloped Soil At Top, Add	4.07	
32 32 29 00-0004	LF		4" x 4", 1' High, Cedar, Wood Post Retaining Walls.....	88.45	33.57
			For >3:1 Sloped Soil At Top, Add	1.82	
32 32 29 00-0005	LF		4" x 4", 2' High, Cedar, Wood Post Retaining Walls.....	173.16	65.72
			For >3:1 Sloped Soil At Top, Add	3.55	
32 32 29 00-0006	LF		4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	91.84	29.33
			For >3:1 Sloped Soil At Top, Add	2.81	
32 32 29 00-0007	LF		4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	179.78	57.36
			For >3:1 Sloped Soil At Top, Add	5.52	
32 32 29 00-0008	LF		4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls.....	72.81	26.03
			For >3:1 Sloped Soil At Top, Add	1.76	
32 32 29 00-0009	LF		4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls.....	131.67	47.11
			For >3:1 Sloped Soil At Top, Add	3.18	
32 32 29 00-0010	LF		6" x 6", 2' High, Redwood, Wood Post Retaining Walls.....	239.35	79.62
			For >3:1 Sloped Soil At Top, Add	6.81	
32 32 29 00-0011	LF		6" x 6", 4' High, Redwood, Wood Post Retaining Walls.....	472.25	156.06
			For >3:1 Sloped Soil At Top, Add	13.62	
32 32 29 00-0012	LF		6" x 6", 2' High, Cedar, Wood Post Retaining Walls.....	235.87	79.62
			For >3:1 Sloped Soil At Top, Add	6.52	
32 32 29 00-0013	LF		6" x 6", 4' High, Cedar, Wood Post Retaining Walls.....	463.54	156.06
			For >3:1 Sloped Soil At Top, Add	12.88	
32 32 29 00-0014	LF		6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	234.83	64.66
			For >3:1 Sloped Soil At Top, Add	8.96	
32 32 29 00-0015	LF		6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	466.33	127.67
			For >3:1 Sloped Soil At Top, Add	17.93	
32 32 29 00-0016	LF		6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls.....	163.61	51.71
			For >3:1 Sloped Soil At Top, Add	5.11	
32 32 29 00-0017	LF		6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls.....	321.66	101.17
			For >3:1 Sloped Soil At Top, Add	10.14	
32 32 29 00-0018	LF		8" x 8", 4' High, Redwood, Wood Post Retaining Walls.....	583.81	172.55
			For >3:1 Sloped Soil At Top, Add	20.29	
32 32 29 00-0019	LF		8" x 8", 6' High, Redwood, Wood Post Retaining Walls.....	1,091.86	322.12
			For >3:1 Sloped Soil At Top, Add	38.05	
32 32 29 00-0020	LF		8" x 8", 4' High, Cedar, Wood Post Retaining Walls.....	566.39	172.55
			For >3:1 Sloped Soil At Top, Add	18.80	
32 32 29 00-0021	LF		8" x 8", 6' High, Cedar, Wood Post Retaining Walls.....	1,058.76	322.12
			For >3:1 Sloped Soil At Top, Add	35.24	
32 32 29 00-0022	LF		8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	648.26	199.04
			For >3:1 Sloped Soil At Top, Add	21.26	
32 32 29 00-0023	LF		8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	1,209.39	371.71
			For >3:1 Sloped Soil At Top, Add	39.61	
32 32 29 00-0024	LF		8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls.....	465.46	160.88
			For >3:1 Sloped Soil At Top, Add	12.22	
32 32 29 00-0025	LF		8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls.....	863.33	298.45
			For >3:1 Sloped Soil At Top, Add	22.65	
32 32 29 00-0026	LF		4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	176.26	66.31
			For >3:1 Sloped Soil At Top, Add	3.70	
32 32 29 00-0027	LF		6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	263.52	99.52
			For >3:1 Sloped Soil At Top, Add	5.48	
32 32 29 00-0028	LF		8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	350.68	132.62
			For >3:1 Sloped Soil At Top, Add	7.26	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0029	LF		4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	117.66	37.45
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.63	
32 32 29 00-0030	LF		6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	170.86	54.06
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.33	
32 32 29 00-0031	LF		8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	231.33	73.03
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.26	
32 32 29 00-0032 Post And Board Retaining Walls (32 32 29)					
Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.					
32 32 29 00-0033	LF		4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	71.43	19.91
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.69	
32 32 29 00-0034	LF		4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	110.69	34.04
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.63	
32 32 29 00-0035	LF		6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls.....	144.71	42.28
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.11	
32 32 29 00-0036	LF		6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	202.52	59.95
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.03	
32 32 29 00-0037	LF		6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	264.78	77.97
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.25	
32 32 29 00-0038	LF		8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	541.99	154.29
			<i>For >3:1 Sloped Soil At Top, Add</i>	19.84	
32 32 29 00-0039	LF		8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	611.73	170.89
			<i>For >3:1 Sloped Soil At Top, Add</i>	22.95	
32 32 29 00-0040	LF		4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls.....	72.66	20.73
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.65	
32 32 29 00-0041	LF		4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	127.66	36.86
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.59	
32 32 29 00-0042	LF		6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	125.46	36.16
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.52	
32 32 29 00-0043	LF		6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls.....	176.15	51.94
			<i>For >3:1 Sloped Soil At Top, Add</i>	6.14	
32 32 29 00-0044	LF		6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls.....	274.76	82.92
			<i>For >3:1 Sloped Soil At Top, Add</i>	9.25	
32 32 29 00-0045	LF		6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar.....	217.11	63.72
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.63	
32 32 29 00-0046	LF		8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar.....	560.56	159.24
			<i>For >3:1 Sloped Soil At Top, Add</i>	20.58	
32 32 29 00-0047	LF		4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated.....	94.50	38.28
			<i>For >3:1 Sloped Soil At Top, Add</i>	1.52	
32 32 29 00-0048	LF		4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated.....	136.45	54.42
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.35	
32 32 29 00-0049	LF		4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat.....	197.18	74.67
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.07	
32 32 29 00-0050	LF		6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated.....	345.30	126.02
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.92	
32 32 29 00-0051	LF		6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated.....	349.65	126.02
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.29	
32 32 29 00-0052	LF		6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat.....	329.30	121.08
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.40	
32 32 29 00-0053	LF		8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated.....	773.00	278.54
			<i>For >3:1 Sloped Soil At Top, Add</i>	18.36	
32 32 29 00-0054	LF		4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking.....	94.50	38.28
			<i>For >3:1 Sloped Soil At Top, Add</i>	1.52	
32 32 29 00-0055	LF		4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking.....	136.45	54.42
			<i>For >3:1 Sloped Soil At Top, Add</i>	2.35	
32 32 29 00-0056	LF		4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking.....	197.18	74.67
			<i>For >3:1 Sloped Soil At Top, Add</i>	4.07	
32 32 29 00-0057	LF		6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking.....	247.61	92.93
			<i>For >3:1 Sloped Soil At Top, Add</i>	5.26	
32 32 29 00-0058	LF		6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	345.30	126.02
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.92	
32 32 29 00-0059	LF		6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	329.30	121.08
			<i>For >3:1 Sloped Soil At Top, Add</i>	7.40	
32 32 29 00-0060	LF		8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls.....	773.00	278.54
			<i>For >3:1 Sloped Soil At Top, Add</i>	18.36	
32 32 29 00-0061 Wood Tie Retaining Walls, Rod Connector At 4' (32 32 29)					
Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.					
32 32 29 00-0062 Redwood (32 32 29 00-0061)					
32 32 29 00-0063	LF		2' High, 6" x 6" Wood Tie Wall.....	123.42	40.75
			<i>For >3:1 Sloped Soil At Top, Add</i>	3.55	
32 32 29 00-0064	LF		4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	281.58	92.93
			<i>For >3:1 Sloped Soil At Top, Add</i>	8.14	
32 32 29 00-0065	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	421.57	139.33
			<i>For >3:1 Sloped Soil At Top, Add</i>	12.14	
32 32 29 00-0066	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	404.32	119.43
			<i>For >3:1 Sloped Soil At Top, Add</i>	14.07	



Exterior Improvements			32
Site Improvements			32 30
Retaining Walls			32 32

32

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	607.48 21.17	179.14
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	802.03 28.13	235.56
32 32 29 00-0069 Cedar (32 32 29 00-0061)				
32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall <i>For >3:1 Sloped Soil At Top, Add</i>	121.68 3.41	40.75
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	276.35 7.70	92.93
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	414.60 11.55	139.33
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	392.12 13.03	119.43
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	590.06 19.69	179.14
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	777.65 26.06	235.56
32 32 29 00-0076 Creosoted Wood (32 32 29 00-0061)				
32 32 29 00-0077	LF	2' High, 6" x 8" Wood Tie Wall <i>For >3:1 Sloped Soil At Top, Add</i>	137.85 2.52	54.06
32 32 29 00-0078	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	315.91 5.70	124.38
32 32 29 00-0079	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	468.36 8.51	184.09
32 32 29 00-0080	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	635.01 11.40	250.39
32 32 29 00-0081	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	924.60 16.58	364.76
32 32 29 00-0082	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,226.81 22.06	483.60
32 32 29 00-0083 Pressure Treated Wood (32 32 29 00-0061)				
32 32 29 00-0084	LF	2' High, 6" x 6" Wood Tie Wall <i>For >3:1 Sloped Soil At Top, Add</i>	106.64 3.34	33.68
32 32 29 00-0085	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	242.31 7.63	76.32
32 32 29 00-0086	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	363.03 11.40	114.48
32 32 29 00-0087	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	398.07 10.44	137.68
32 32 29 00-0088	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	597.80 15.84	205.76
32 32 29 00-0089	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'..... <i>For >3:1 Sloped Soil At Top, Add</i>	792.75 20.88	273.60
32 32 53 Stone Retaining Walls (32 32)				
32 32 53 00-0001 Stone Retaining Walls (32 32 53)				
Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.				
32 32 53 00-0002 Stone Retaining Walls (32 32 53 00-0001)				
Note: Stone at \$16.00/ton.				
32 32 53 00-0003	LF	\$16.00/ton 3' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	506.57 4.45	227.05
32 32 53 00-0004	LF	\$16.00/ton 4' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	597.56 4.87	270.12
32 32 53 00-0005	LF	\$16.00/ton 6' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	784.74 5.70	358.87
32 32 53 00-0006	LF	\$16.00/ton 8' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,208.80 7.35	561.12
32 32 53 00-0007	LF	\$16.00/ton 10' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,570.41 8.70	734.00
32 32 53 00-0008	LF	\$16.00/ton 12' High Stone Retaining Wall, Dry Set <i>For >3:1 Sloped Soil At Top, Add</i>	1,948.78 10.25	914.04
32 32 53 00-0009	LF	\$16.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	454.43 4.45	201.03
32 32 53 00-0010	LF	\$16.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	533.01 4.87	237.84
32 32 53 00-0011	LF	\$16.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	689.45 5.70	311.17
32 32 53 00-0012	LF	\$16.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,055.43 7.35	484.46
32 32 53 00-0013	LF	\$16.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,355.26 8.70	626.47
32 32 53 00-0014	LF	\$16.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For >3:1 Sloped Soil At Top, Add</i>	1,683.40 10.25	781.41

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 32 53 00-0015**Stone Retaining Walls (32 32 53 00-0001)**

Note: Stone at \$32.00/ton.

32 32 53 00-0016	LF	\$32.00/ton 3' High Stone Retaining Wall, Dry Set.....	522.41	227.05
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.80	
32 32 53 00-0017	LF	\$32.00/ton 4' High Stone Retaining Wall, Dry Set.....	619.49	270.12
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.73	
32 32 53 00-0018	LF	\$32.00/ton 6' High Stone Retaining Wall, Dry Set.....	816.42	358.87
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.39	
32 32 53 00-0019	LF	\$32.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,255.10	561.12
		<i>For >3:1 Sloped Soil At Top, Add</i>	11.29	
32 32 53 00-0020	LF	\$32.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,633.77	734.00
		<i>For >3:1 Sloped Soil At Top, Add</i>	14.09	
32 32 53 00-0021	LF	\$32.00/ton 12' High Stone Retaining Wall, Dry Set.....	2,029.20	914.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	17.09	
32 32 53 00-0022	LF	\$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	470.27	201.03
		<i>For >3:1 Sloped Soil At Top, Add</i>	5.80	
32 32 53 00-0023	LF	\$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	554.94	237.84
		<i>For >3:1 Sloped Soil At Top, Add</i>	6.73	
32 32 53 00-0024	LF	\$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	721.13	311.17
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.39	
32 32 53 00-0025	LF	\$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,101.73	484.46
		<i>For >3:1 Sloped Soil At Top, Add</i>	11.29	
32 32 53 00-0026	LF	\$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,418.62	626.47
		<i>For >3:1 Sloped Soil At Top, Add</i>	14.09	
32 32 53 00-0027	LF	\$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,763.82	781.41
		<i>For >3:1 Sloped Soil At Top, Add</i>	17.09	

32 32 53 00-0028**Stone Retaining Walls (32 32 53 00-0001)**

Note: Stone at \$48.00/ton.

32 32 53 00-0029	LF	\$48.00/ton 3' High Stone Retaining Wall, Dry Set.....	539.47	227.05
		<i>For >3:1 Sloped Soil At Top, Add</i>	7.25	
32 32 53 00-0030	LF	\$48.00/ton 4' High Stone Retaining Wall, Dry Set.....	641.18	270.12
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.58	
32 32 53 00-0031	LF	\$48.00/ton 6' High Stone Retaining Wall, Dry Set.....	846.88	358.87
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.98	
32 32 53 00-0032	LF	\$48.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,301.40	561.12
		<i>For >3:1 Sloped Soil At Top, Add</i>	15.22	
32 32 53 00-0033	LF	\$48.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,697.13	734.00
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.47	
32 32 53 00-0034	LF	\$48.00/ton 12' High Stone Retaining Wall, Dry Set.....	2,110.83	914.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	24.03	
32 32 53 00-0035	LF	\$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	487.33	201.03
		<i>For >3:1 Sloped Soil At Top, Add</i>	7.25	
32 32 53 00-0036	LF	\$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	576.87	237.84
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.60	
32 32 53 00-0037	LF	\$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	751.59	311.17
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.98	
32 32 53 00-0038	LF	\$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,148.03	484.46
		<i>For >3:1 Sloped Soil At Top, Add</i>	15.22	
32 32 53 00-0039	LF	\$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,481.98	626.47
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.47	
32 32 53 00-0040	LF	\$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,845.45	781.41
		<i>For >3:1 Sloped Soil At Top, Add</i>	24.03	

32 32 53 00-0041**Stone Retaining Walls (32 32 53 00-0001)**

Note: Stone at \$64.00/ton.

32 32 53 00-0042	LF	\$64.00/ton 3' High Stone Retaining Wall, Dry Set.....	556.53	227.05
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.70	
32 32 53 00-0043	LF	\$64.00/ton 4' High Stone Retaining Wall, Dry Set.....	638.99	270.12
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.39	
32 32 53 00-0044	LF	\$64.00/ton 6' High Stone Retaining Wall, Dry Set.....	879.77	358.87
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.77	
32 32 53 00-0045	LF	\$64.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,350.14	561.12
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.37	
32 32 53 00-0046	LF	\$64.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,762.93	734.00
		<i>For >3:1 Sloped Soil At Top, Add</i>	25.06	
32 32 53 00-0047	LF	\$64.00/ton 12' High Stone Retaining Wall, Dry Set.....	2,193.69	914.04
		<i>For >3:1 Sloped Soil At Top, Add</i>	31.07	
32 32 53 00-0048	LF	\$64.00/ton 3' High Stone Retaining Wall, Mortar Set.....	504.39	201.03
		<i>For >3:1 Sloped Soil At Top, Add</i>	8.70	
32 32 53 00-0049	LF	\$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	598.80	237.84
		<i>For >3:1 Sloped Soil At Top, Add</i>	10.46	
32 32 53 00-0050	LF	\$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	784.48	311.17
		<i>For >3:1 Sloped Soil At Top, Add</i>	13.77	
32 32 53 00-0051	LF	\$64.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,196.77	484.46
		<i>For >3:1 Sloped Soil At Top, Add</i>	19.37	
32 32 53 00-0052	LF	\$64.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,547.78	626.47
		<i>For >3:1 Sloped Soil At Top, Add</i>	25.06	
32 32 53 00-0053	LF	\$64.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,928.31	781.41
		<i>For >3:1 Sloped Soil At Top, Add</i>	31.07	



Exterior Improvements		32	32
Site Improvements		32 30	
Retaining Walls		32 32	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 35 Screening Devices (32 30)

32 35 16 Sound Barriers (32 35)

32 35 16 00-0001 Precast Concrete Roadway Sound Barriers And Support Including Caps For Columns (32 35 16)

Note: Installed on steel supports. Finish to be determined by owner (ribbed, patterned, stamped, exposed aggregate or smooth)

32 35 16 00-0002 4" Thick (32 35 16 00-0001)

32 35 16 00-0003	LF	6' High x 4" Thick Precast Concrete Sound Walls	195.70	26.26
32 35 16 00-0004	LF	7' High x 4" Thick Precast Concrete Sound Walls	211.58	29.31
32 35 16 00-0005	LF	8' High x 4" Thick Precast Concrete Sound Walls	230.36	31.74
32 35 16 00-0006	LF	9' High x 4" Thick Precast Concrete Sound Walls	245.73	34.19
32 35 16 00-0007	LF	10' High x 4" Thick Precast Concrete Sound Walls	259.89	36.63
32 35 16 00-0008	LF	11' High x 4" Thick Precast Concrete Sound Walls	280.17	37.85
32 35 16 00-0009	LF	12' High x 4" Thick Precast Concrete Sound Walls	299.93	39.69

32 35 16 00-0010 6" Thick (32 35 16 00-0001)

32 35 16 00-0011	LF	6' High x 6" Thick Precast Concrete Sound Walls	233.60	30.52
32 35 16 00-0012	LF	7' High x 6" Thick Precast Concrete Sound Walls	252.53	34.19
32 35 16 00-0013	LF	8' High x 6" Thick Precast Concrete Sound Walls	274.93	37.85
32 35 16 00-0014	LF	9' High x 6" Thick Precast Concrete Sound Walls	293.25	40.29
32 35 16 00-0015	LF	10' High x 6" Thick Precast Concrete Sound Walls	310.16	42.74
32 35 16 00-0016	LF	11' High x 6" Thick Precast Concrete Sound Walls	334.41	44.57
32 35 16 00-0017	LF	12' High x 6" Thick Precast Concrete Sound Walls	358.04	46.40

32 35 16 00-0018 8" Thick (32 35 16 00-0001)

32 35 16 00-0019	LF	6' High x 8" Thick Precast Concrete Sound Walls	282.29	36.63
32 35 16 00-0020	LF	7' High x 8" Thick Precast Concrete Sound Walls	305.08	40.29
32 35 16 00-0021	LF	8' High x 8" Thick Precast Concrete Sound Walls	332.14	43.95
32 35 16 00-0022	LF	9' High x 8" Thick Precast Concrete Sound Walls	354.23	47.62
32 35 16 00-0023	LF	10' High x 8" Thick Precast Concrete Sound Walls	374.65	50.67
32 35 16 00-0024	LF	11' High x 8" Thick Precast Concrete Sound Walls	404.07	52.50
32 35 16 00-0025	LF	12' High x 8" Thick Precast Concrete Sound Walls	432.77	54.95

32 35 16 00-0026 Redwood Top (32 35 16 00-0001)

32 35 16 00-0027	LF	2" x 6" Redwood, Construction Grade/Rough	6.11	1.37
32 35 16 00-0028	LF	2" x 8" Redwood, Construction Grade/Rough	7.04	1.78
32 35 16 00-0029	LF	2" x 10" Redwood, Construction Grade/Rough	10.90	2.19
32 35 16 00-0030	LF	2" x 12" Redwood, Construction Grade/Rough	13.17	2.73
32 35 16 00-0031	LF	2" x 6" Redwood, Con Heart/Smooth	7.53	1.37
32 35 16 00-0032	LF	2" x 8" Redwood, Con Heart/Smooth	10.94	1.78
32 35 16 00-0033	LF	2" x 10" Redwood, Con Heart/Smooth	14.53	2.19
32 35 16 00-0034	LF	2" x 12" Redwood, Con Heart/Smooth	17.47	2.73

32 39 Manufactured Site Specialties (32 30)

Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0081 for concrete core drilling, 02 41 19 13-0219 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

32 39 13 Manufactured Metal Bollards (32 39)

32 39 13 00-0001 Metal Pipe Bollards (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated (32 39 13 00-0001)

32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	76.97	14.10
For Galvanized Steel, Add			8.29	
For 304 Stainless Steel, Add			65.83	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add			136.84	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add			92.07	
For Schedule 80, Add			10.14	
For Concrete Fill, Add Per LF Of Pipe Bollard			10.29	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated	105.12	14.10
For Galvanized Steel, Add			13.07	
For 304 Stainless Steel, Add			103.83	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add			136.84	
For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add			92.07	
For Schedule 80, Add			14.36	
For Concrete Fill, Add Per LF Of Pipe Bollard			14.53	

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0005 LF 8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	149.33	17.63
For Galvanized Steel, Add	19.39	
For 304 Stainless Steel, Add	154.01	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	179.00	
For Each Sleeve For Removable, Lockable Bollard, Add	135.83	
For Schedule 80, Add	20.64	
For Concrete Fill, Add Per LF Of Pipe Bollard	19.40	
32 39 13 00-0006 LF 10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	198.38	21.15
For Galvanized Steel, Add	26.53	
For 304 Stainless Steel, Add	210.71	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	207.20	
For Each Sleeve For Removable, Lockable Bollard, Add	149.37	
For Schedule 80, Add	27.64	
For Concrete Fill, Add Per LF Of Pipe Bollard	23.74	
32 39 13 00-0007 LF 12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	250.10	28.21
For Galvanized Steel, Add	32.93	
For 304 Stainless Steel, Add	261.48	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	274.93	
For Each Sleeve For Removable, Lockable Bollard, Add	205.16	
For Schedule 80, Add	34.69	
For Concrete Fill, Add Per LF Of Pipe Bollard	27.71	
32 39 13 00-0008 Cast Bollards (32 39 13 00-0001)		
32 39 13 00-0009 EA 36" Cast Aluminum Bollard, Black Powder Coat Finish	1,952.67	84.61
Note: 8-1/2" diameter, embedded mounting plate, all colors.		
32 39 13 00-0010 EA 36" Cast Aluminum Removable Bollard, Black Powder Coat Finish	3,293.85	84.61
Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.		
32 39 13 00-0011 EA 36" Cast Iron Bollard, Powder Coat Finish.....	1,656.16	84.61
Note: 8-1/2" diameter, embedded mounting plate, all colors.		
32 39 13 00-0012 EA 36" Cast Iron Removable Bollard, Black Powder Coat Finish.....	3,005.27	84.61
Note: 8-1/2" diameter, embedded mounting plate, lockable, all colors.		
32 39 23 Manufactured Concrete Bollards (32 39)		
32 39 23 00-0001 Concrete Bollards (32 39 23)		
Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 23 00-0002 Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003 EA 12" x 12" x 30" High Concrete Bollard, Light Media Blast	680.92	112.82
Note: Surface mounted with anchor bolts embedded into grout pockets.		
32 39 23 00-0004 EA 12" Diameter x 30" High Concrete Bollard, Light Media Blast.....	680.92	112.82
Note: Surface mounted with anchor bolts embedded into grout pockets.		
32 39 25 Manufactured Wood Bollards (32 39)		
32 39 25 00-0001 Wood Bollards (32 39 25)		
Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 25 00-0002 Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003 LF 4" x 4", Pressure Treated Wood Bollard	25.63	11.28
For Each Sleeve For Removable, Lockable Bollard, Add	90.34	
32 39 25 00-0004 LF 6" x 6", Pressure Treated Wood Bollard	28.86	11.28
For Each Sleeve For Removable, Lockable Bollard, Add	90.34	
32 39 25 00-0005 LF 8" x 8", Pressure Treated Wood Bollard	36.59	12.69
For Each Sleeve For Removable, Lockable Bollard, Add	133.93	
32 39 25 00-0006 LF 10" x 10", Pressure Treated Wood Bollard	51.31	16.92
For Each Sleeve For Removable, Lockable Bollard, Add	150.17	
32 39 25 00-0007 LF 12" x 12", Pressure Treated Wood Bollard	70.26	22.57
For Each Sleeve For Removable, Lockable Bollard, Add	211.33	
32 39 27 Manufactured Plastic Bollards (32 39)		
32 39 27 00-0001 Plastic Bollards (32 39 27)		
See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
32 39 27 00-0002 Recycled Plastic Bollards (32 39 27 00-0001)		
32 39 27 00-0003 EA 6" x 6" x 33" Surface Mounted Recycled Plastic Bollard	367.00	56.41
Note: Includes anchor bolts.		
32 39 27 00-0004 EA 6" Diameter x 6" Steel Reinforced Recycled Plastic Bollard.....	593.27	56.41
32 39 27 00-0005 Plastic Bollard Covers (32 39 27 00-0001)		
32 39 27 00-0006 EA 4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	91.36	12.08
For Reflective Tape, Add	10.67	
32 39 27 00-0007 EA 6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	98.74	13.29
For Reflective Tape, Add	10.67	
32 39 27 00-0008 EA 3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe	124.96	12.08
For Reflective Tape, Add	10.67	



Exterior Improvements		32	32
Site Improvements		32 30	
Manufactured Site Specialties		32 39	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 27 00-0009	EA		3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe.....	124.96	12.08
			For Reflective Tape, Add	10.67	
32 39 27 00-0010	EA		3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe.....	140.65	12.08
			For Reflective Tape, Add	10.67	
32 39 27 00-0011	EA		4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe.....	124.96	12.08
			For Reflective Tape, Add	10.67	
32 39 27 00-0012	EA		4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	127.20	12.08
			For Reflective Tape, Add	10.67	
32 39 27 00-0013	EA		5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	124.96	12.08
			For Reflective Tape, Add	10.67	
32 39 27 00-0014	EA		5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	127.20	12.08
			For Reflective Tape, Add	10.67	
32 39 27 00-0015	EA		5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe.....	178.74	12.08
			For Reflective Tape, Add	10.67	
32 39 27 00-0016	EA		6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	127.37	13.29
			For Reflective Tape, Add	10.67	
32 39 27 00-0017	EA		6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	163.22	13.29
			For Reflective Tape, Add	10.67	
32 39 27 00-0018	EA		6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	186.12	13.29
			For Reflective Tape, Add	10.67	
32 39 27 00-0019	EA		7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	156.68	14.50
			For Reflective Tape, Add	10.67	
32 39 27 00-0020	EA		8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe.....	170.13	14.50
			For Reflective Tape, Add	10.67	
32 39 27 00-0021	EA		8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe.....	170.13	14.50
			For Reflective Tape, Add	10.67	
32 39 27 00-0022	EA		10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe.....	230.64	14.50
			For Reflective Tape, Add	10.67	

32 39 29 Manufactured Stone Bollards (32 39)

32 39 29 00-0001	Stone Bollards (32 39 29)			
	See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.			
32 39 29 00-0002	Granite Bollards (32 39 29 00-0001)			
32 39 29 00-0003	EA		16" x 16" x 30" Granite Bollard, Smooth Matt Finish.....	1,738.06
			Note: Surface mounted with anchors embedded into grout pockets.	141.02
32 39 29 00-0004	EA		16" x 16" x 54" Granite Bollard, Smooth Matt Finish.....	2,195.03
			Note: Surface mounted with anchors embedded into grout pockets.	197.43
32 39 29 00-0005	EA		12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top.....	1,060.35
			Note: Surface mounted with anchors embedded into grout pockets.	141.02
32 39 29 00-0006	EA		12" Diameter x 18" Granite Bollard, Smooth Matt Finish.....	1,602.23
			Note: Flat Top, surface mounted with anchors embedded into grout pockets.	112.82
32 39 29 00-0007	EA		24" x 24" x 20" Granite Bollard, Octagonal Cross Section.....	2,409.67
			Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	112.82

32 80 Irrigation (32)

32 84 Planting Irrigation (32 80)

32 84 13 Drip Irrigation (32 84)

32 84 13 00-0001	Drip Emitter Irrigation Devices (32 84 13)			
32 84 13 00-0002	Drip Emitter Irrigation Valves (32 84 13 00-0001)			
32 84 13 00-0003	EA		1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050).....	54.65
32 84 13 00-0004	EA		1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV100).....	86.60
32 84 13 00-0005	EA		3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075).....	84.37
32 84 13 00-0006	EA		3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075TBOS).....	114.38
				13.01
32 84 13 00-0007	Drip Emitter Irrigation Filters (32 84 13 00-0001)			
32 84 13 00-0008	EA		3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075).....	177.81
32 84 13 00-0009	EA		1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100).....	179.46
32 84 13 00-0010	EA		3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX).....	68.60
32 84 13 00-0011	EA		1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX).....	69.93
32 84 13 00-0012	EA		1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100).....	193.18
				13.01
32 84 13 00-0013	EA		3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY).....	88.47
				13.01
32 84 13 00-0014	EA		1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY).....	98.81
				13.01
32 84 13 00-0015	Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)			
32 84 13 00-0016	EA		3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075).....	67.26
				13.01
32 84 13 00-0017	EA		3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075).....	67.26
				13.01

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0018	EA	3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075).....	67.26	13.01
32 84 13 00-0019	EA	1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	78.14	13.01
32 84 13 00-0020		Drip Emitter Irrigation Tubing (32 84 13 00-0001) Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021	LF	1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	4.90	1.82
32 84 13 00-0022	LF	1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	4.54	2.08
32 84 13 00-0023	LF	1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100).....	3.85	1.82
		<i>For Shallow Trenching And Backfill By Hand, Add</i>	7.46	
32 84 13 00-0024	LF	1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100).....	4.57	2.08
		<i>For Shallow Trenching And Backfill By Hand, Add</i>	8.08	
32 84 13 00-0025		Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026	EA	1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	3.45	
32 84 13 00-0027	EA	1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL).....	3.49	
32 84 13 00-0028	EA	1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	3.55	
32 84 13 00-0029	EA	1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025).....	3.74	
32 84 13 00-0030	EA	1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	3.42	
32 84 13 00-0031	EA	17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	3.64	
		<i>For Compression Fitting, Add</i>	0.39	
32 84 13 00-0032	EA	17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW).....	3.76	
		<i>For Compression Fitting, Add</i>	0.51	
32 84 13 00-0033	EA	17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	3.81	
		<i>For Compression Fitting, Add</i>	0.56	
32 84 13 00-0034	EA	17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050).....	3.84	
		<i>For Compression Fitting, Add</i>	0.59	
32 84 13 00-0035	EA	17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	4.08	
		<i>For Compression Fitting, Add</i>	0.83	
32 84 13 00-0036	EA	1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP).....	4.35	
32 84 13 00-0037	EA	12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND).....	2.14	
32 84 13 00-0038		Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039	EA	0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC).....	7.12	
32 84 13 00-0040	EA	5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	8.17	
32 84 13 00-0041	EA	0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056).....	17.23	
32 84 13 00-0042		Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)		
32 84 13 00-0043	EA	Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK).....	27.66	11.71
32 84 13 00-0044	EA	Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK).....	27.72	11.71
32 84 13 00-0045	EA	12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL).....	30.64	11.71
32 84 13 00-0046	EA	24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL).....	30.95	11.71
32 84 13 00-0047	EA	4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	44.96	15.35
		Note: Includes nozzle.		
32 84 13 00-0048	EA	6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	48.73	15.35
		Note: Includes nozzle.		
32 84 13 00-0049	EA	12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)	49.84	15.35
		Note: Includes nozzle.		
32 84 13 00-0050		Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001) Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF	0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	5.18	2.28
32 84 23		Underground Sprinklers (32 84)		
32 84 23 00-0001		Sprinkler Heads (32 84 23)		
32 84 23 00-0002		Spray Sprinkler Heads (32 84 23 00-0001) Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA	2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P).....	39.60	14.38
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0004	EA	4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P).....	37.46	14.38
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0005	EA	6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P).....	45.37	14.38
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0006	EA	12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P).....	51.99	14.38
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0007	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM).....	40.44	14.38
		<i>For Rotary Nozzle, Add</i>	3.25	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0008	EA	6"	Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	51.57	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0009	EA	12"	Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM)	56.92	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0010	EA	4"	Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)	43.61	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0011	EA	6"	Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)	53.75	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0012	EA	12"	Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)	58.76	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0013	EA	4"	Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)	44.88	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0014	EA	6"	Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)	60.45	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0015	EA	12"	Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)	65.38	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0016	EA		Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300)	33.31	14.38
			<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0017	EA		Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	38.25	14.38
32 84 23 00-0018			Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001) Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019			1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020	EA	4"	Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC)	55.23	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0021	EA	4"	Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)	56.99	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0022			3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023	EA	4"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)	51.01	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0024	EA	6"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)	70.03	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0025	EA	4"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS)	54.53	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0026	EA	6"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS)	72.85	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0027	EA	4"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)	55.94	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0028	EA	4"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)	58.76	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0029	EA	6"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR)	77.07	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0030	EA	12"	Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR)	88.35	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
32 84 23 00-0031	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS)	58.40	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0032	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR)	69.68	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
32 84 23 00-0033			1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA	4"	Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC)	96.45	14.38
			<i>For Non-Potable Cover, Add</i>	2.00	
			<i>For Stainless Steel Riser, Add</i>	9.00	
			<i>For Stainless Steel Riser And High Speed Rotor, Add</i>	51.86	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
32 84 23 00-0035	1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.				
32 84 23 00-0036	EA 5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005)	137.31		14.38	
	For Non-Potable Cover, Add	2.00			
	For Stainless Steel Riser, Add	9.00			
32 84 23 00-0037	Impact-Drive Sprinkler Heads (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.				
32 84 23 00-0038	EA 1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08)	76.72		14.38	
	For Non-Potable Cover, Add	2.00			
32 84 23 00-0039	EA 1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08)	59.81		14.38	
32 84 23 00-0040	EA 3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB)	116.15		14.38	
32 84 23 00-0041	Electric Remote Control Irrigation Valves (32 84 23)				
32 84 23 00-0042	0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041) Note: 15 to 150 PSI.				
32 84 23 00-0043	EA 3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV)	166.96		59.92	
32 84 23 00-0044	EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV)	166.96		59.92	
32 84 23 00-0045	EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS)	184.09		68.31	
32 84 23 00-0046	EA 1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA)	168.37		59.92	
32 84 23 00-0047	0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.				
32 84 23 00-0048	EA 1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF)	168.37		59.92	
32 84 23 00-0049	EA 1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS)	186.20		68.31	
32 84 23 00-0050	EA 1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB)	187.61		68.31	
32 84 23 00-0051	0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.				
32 84 23 00-0052	EA 1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB)	281.10		59.92	
32 84 23 00-0053	EA 1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB)	330.41		59.92	
32 84 23 00-0054	EA 2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB)	393.82		59.92	
32 84 23 00-0055	5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.				
32 84 23 00-0056	EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D)	403.43		67.35	
32 84 23 00-0057	EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D)	452.75		67.35	
32 84 23 00-0058	EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D)	516.16		67.35	
32 84 23 00-0059	20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.				
32 84 23 00-0060	EA 1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D)	473.88		67.35	
32 84 23 00-0061	EA 1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D)	523.20		67.35	
32 84 23 00-0062	EA 2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D)	586.61		67.35	
32 84 23 00-0063	0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.				
32 84 23 00-0064	EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B)	421.36		59.92	
32 84 23 00-0065	EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B)	648.10		59.92	
32 84 23 00-0066	EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B)	668.60		59.92	
32 84 23 00-0067	EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B)	1,576.05		80.89	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0068	5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP)	388.14	67.35
32 84 23 00-0070	EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP)	455.56	67.35
32 84 23 00-0071	EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP)	528.77	67.35
32 84 23 00-0072	EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP)	625.15	67.35
32 84 23 00-0073	0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS)	514.87	67.35
32 84 23 00-0075	EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS)	783.89	67.35
32 84 23 00-0076	EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS)	806.94	67.35
32 84 23 00-0077	EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS)	1,685.71	67.35
32 84 23 00-0078	0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA 1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ)	523.84	59.92
32 84 23 00-0080	EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ)	750.58	59.92
32 84 23 00-0081	EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ)	771.08	59.92
32 84 23 00-0082	EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ)	1,678.53	80.89
32 84 23 00-0083	5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D)	493.82	67.35
32 84 23 00-0085	EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D)	561.25	67.35
32 84 23 00-0086	EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D)	634.45	67.35
32 84 23 00-0087	EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D)	730.83	67.35
32 84 23 00-0088	0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089	EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ)	617.35	67.35
32 84 23 00-0090	EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ)	886.37	67.35
32 84 23 00-0091	EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ)	909.42	67.35
32 84 23 00-0092	EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ)	1,788.19	67.35
32 84 23 00-0093	Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)		
32 84 23 00-0094	EA Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL)	153.61	
32 84 23 00-0095	Remote Control Valve Assemblies (32 84 23 00-0041) Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096	EA 1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	593.46	149.79
32 84 23 00-0097	EA 1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	642.78	149.79
32 84 23 00-0098	EA 2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12)	706.19	149.79

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0099	EA	1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	663.92	149.79
32 84 23 00-0100	EA	1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	713.24	149.79
32 84 23 00-0101	EA	2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	776.65	149.79
32 84 23 00-0102	EA	1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	683.86	149.79
32 84 23 00-0103	EA	1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	824.49	149.79
32 84 23 00-0104	EA	2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12)..... Note: Purple components for use with recycled water	920.87	149.79
32 84 23 00-0105 Irrigation Valve Boxes (32 84 23)				
Note: Includes lid.				
32 84 23 00-0106	EA	6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	101.38	43.14
32 84 23 00-0107	EA	7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	118.02	43.14
32 84 23 00-0108	EA	10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	154.82	56.79
32 84 23 00-0109	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	261.15	82.92
32 84 23 00-0110	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	266.47	82.92
32 84 23 00-0111	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	304.64	82.92
32 84 23 00-0112	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	309.18	82.92
32 84 23 00-0113	EA	33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	527.28	82.92
32 84 23 00-0114	EA	40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	809.77	82.92
32 84 23 00-0115	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	472.80	138.73
For 12" Extension, Add			102.72	
32 84 23 00-0116	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid.....	750.31	138.73
For 12" Extension, Add			102.72	
32 84 23 00-0117	EA	12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	213.47	71.90
32 84 23 00-0118	EA	15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	307.04	82.92
32 84 23 00-0119	EA	10" Round Irrigation Valve Box With Lid (Carson 910-10).....	165.03	56.79
32 84 23 00-0120 Irrigation Controllers (32 84 23)				
See CSI section 27 15 13 00-0256 for low voltage wiring.				
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)				
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)				
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)				
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)				
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)				
32 84 23 00-0126	EA	4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	411.26	37.02
32 84 23 00-0127	EA	7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	574.25	37.02
32 84 23 00-0128	EA	10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	737.25	37.02
32 84 23 00-0129	EA	13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	900.24	37.02
32 84 23 00-0130	EA	16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	1,026.23	37.02
32 84 23 00-0131	EA	19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	1,193.85	37.02
32 84 23 00-0132	EA	22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	1,361.48	37.02
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)				
32 84 23 00-0134	EA	4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	483.33	37.02
32 84 23 00-0135	EA	7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	646.33	37.02
32 84 23 00-0136	EA	10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	809.33	37.02
32 84 23 00-0137	EA	13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	972.32	37.02
32 84 23 00-0138	EA	16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,098.31	37.02
32 84 23 00-0139	EA	19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,265.93	37.02
32 84 23 00-0140	EA	22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,433.55	37.02
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)				
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)				
32 84 23 00-0143	EA	4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	661.62	37.02
32 84 23 00-0144	EA	7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	824.61	37.02
32 84 23 00-0145	EA	10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	987.61	37.02



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,150.61	37.02
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,276.60	37.02
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,444.22	37.02
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,611.84	37.02
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	715.63	37.02
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	878.62	37.02
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,041.62	37.02
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,204.61	37.02
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,330.60	37.02
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,498.22	37.02
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,665.84	37.02
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....	167.63	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....	320.21	
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG)	461.07	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	979.30	37.02
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,184.93	37.02
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,394.04	37.02
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,599.68	37.02
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,808.80	37.02
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,014.42	37.02
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,223.56	37.02
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,429.18	37.02
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,638.30	37.02
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,843.94	37.02
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	983.39	37.02
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,189.02	37.02
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,398.15	37.02
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,603.77	37.02
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,812.91	37.02
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,018.53	37.02
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,227.64	37.02
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,433.28	37.02
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,642.40	37.02
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,848.03	37.02
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	3,057.16	37.02
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	730.46	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM).....	1,696.86	
Note: Excludes concrete foundation.		
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	1,613.06	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	3,584.41	
Note: Excludes concrete foundation.		
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4)	205.62	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8)	414.76	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12)	644.41	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	240.07	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0195		Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196		Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197	EA	1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	478.07	37.02
32 84 23 00-0198	EA	2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	576.25	37.02
32 84 23 00-0199	EA	4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series)	713.21	37.02
32 84 23 00-0200		Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0196)		
32 84 23 00-0201	EA	Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS)	611.70	
32 84 23 00-0202	EA	Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL)	119.68	27.76
32 84 23 00-0203		Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204	EA	Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSD BEX)	168.72	27.76
32 84 23 00-0205	EA	Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	347.62	27.76
32 84 23 00-0206	EA	Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC)	368.59	27.76
32 84 23 00-0207	EA	Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y)	550.35	27.76
32 84 23 00-0208		Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209		Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210		Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0209) Note: Includes water resistant cabinet.		
32 84 23 00-0211	EA	50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,850.93	37.02
32 84 23 00-0212	EA	125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	4,040.53	37.02
32 84 23 00-0213	EA	200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	5,230.11	37.02
32 84 23 00-0214		Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0215	EA	One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF)	348.00	37.02
32 84 23 00-0216	EA	One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	443.41	37.02
32 84 23 00-0217	EA	Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF)	664.61	37.02
32 84 23 00-0218	EA	Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF)	812.77	37.02
32 84 23 00-0219	EA	Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	1,349.25	37.02
32 84 23 00-0220		Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221	EA	50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD)	2,113.79	
32 84 23 00-0222	EA	75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	1,189.58	
32 84 23 00-0223	EA	Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	262.79	32.39
32 84 23 00-0224	EA	Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	1,202.35	37.02
32 84 23 00-0225		Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226		Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0227	EA	6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6)	2,884.73	92.54
32 84 23 00-0228	EA	8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8)	3,724.04	104.11
32 84 23 00-0229	EA	12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12)	5,115.84	115.68
32 84 23 00-0230	EA	16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16)	5,630.66	115.68
32 84 23 00-0231	EA	24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24)	6,658.31	127.25
32 84 23 00-0232	EA	32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32)	8,039.52	127.25
32 84 23 00-0233	EA	40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40)	9,104.85	138.82
32 84 23 00-0234	EA	48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48)	10,197.27	138.82
32 84 23 00-0235	EA	Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	2,946.29	46.28
32 84 23 00-0236	EA	Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	1,234.04	46.28
32 84 23 00-0237		Irrigation Controller Accessories (32 84 23 00-0225)		
32 84 23 00-0238	EA	Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1)	120.54	
32 84 23 00-0239	EA	Spare Lock For Enclosures (Calsense PAD)	130.59	
32 84 23 00-0240	EA	Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	153.73	11.57
32 84 23 00-0241	EA	Transformer For Irrigation Controllers (Calsense TR-1)	218.10	46.28
32 84 23 00-0242	EA	AC Line Protection For Irrigation Controllers (Calsense TP-110)	607.36	46.28
32 84 23 00-0243	EA	Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	808.26	46.28
		For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add	361.57	
32 84 23 00-0244		Sensors For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0245		Flow Sensors (32 84 23 00-0244)		
32 84 23 00-0246	EA	1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	1,419.58	69.40
		For Flow Meter Replacement Insert Only, Deduct	-1,032.03	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 84 23 00-0247	EA 2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)	1,469.81		69.40
	For Flow Meter Replacement Insert Only, Deduct	-1,082.26		
32 84 23 00-0248	EA 3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)	1,520.04		69.40
	For Flow Meter Replacement Insert Only, Deduct	-1,132.49		
32 84 23 00-0249	EA 1" Brass Tee Mounted Flow Meter (Calsense FM 1B)	1,679.30		92.54
	For Flow Meter Replacement Insert Only, Deduct	-1,291.29		
32 84 23 00-0250	EA 1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B)	1,804.87		92.54
	For Flow Meter Replacement Insert Only, Deduct	-1,416.86		
32 84 23 00-0251	EA 1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B)	1,855.09		92.54
	For Flow Meter Replacement Insert Only, Deduct	-1,467.08		
32 84 23 00-0252	EA 2" Brass Tee Mounted Flow Meter (Calsense FM 2B)	2,181.56		92.54
	For Flow Meter Replacement Insert Only, Deduct	-1,665.52		
32 84 23 00-0253	EA 2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)	1,699.77		46.28
	Note: For 4" and larger pipe. Excludes pipe saddle.			
	For Flow Meter Replacement Insert Only, Deduct	-1,183.73		
32 84 23 00-0254	Moisture Sensors (32 84 23 00-0244)			
32 84 23 00-0255	EA Soil Moisture Sensor (Calsense 1000-S)	596.77		34.71
32 84 23 00-0256	Weather Sensors (32 84 23 00-0244)			
32 84 23 00-0257	EA Wind Gage, Irrigation Weather Sensor (Calsense WG-1)	1,629.08		92.54
32 84 23 00-0258	EA Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1)	1,864.39		185.08
32 84 23 00-0259	EA ET Gage, Irrigation Weather Sensor (Calsense ETG)	3,730.67		138.82
32 84 23 00-0260	Weather Sensor Accessories (32 84 23 00-0244)			
32 84 23 00-0261	EA Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C)	1,097.06		
32 84 23 00-0262	EA Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB)	2,076.47		
32 84 23 00-0263	EA Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE)	1,097.06		46.28
32 84 23 00-0264	EA Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE)	2,545.02		46.28
32 84 23 00-0265	Antennas For Irrigation Controllers (32 84 23 00-0225)			
	Note: Excludes antenna cable.			
32 84 23 00-0266	EA Local Radio Dome Antenna (Calsense LR-DOME)	569.69		46.28
32 84 23 00-0267	EA Local Radio Stick Antenna (Calsense LR-STICK)	833.37		46.28
32 84 23 00-0268	EA Local Radio Yagi Antenna (Calsense LR-YAGI)	925.91		92.54
32 84 23 00-0269	EA Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR)	569.69		46.28
32 84 23 00-0270	EA Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	569.69		46.28
32 84 23 00-0271	EA GPRS Stubby Antenna (Calsense GR-STUBBY)	569.69		46.28
32 84 23 00-0272	EA GPRS Stick Antenna (Calsense GR-STICK)	833.37		46.28
32 84 23 00-0273	EA Spread Spectrum Dome Antenna (Calsense SR-DOME)	569.69		46.28
32 84 23 00-0274	EA Spread Spectrum Stick Antenna (Calsense SR-STICK)	833.37		46.28
32 84 23 00-0275	EA Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	925.91		92.54
32 84 23 00-0276	EA Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR)	569.69		46.28
32 84 23 00-0277	EA Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	569.69		46.28
32 84 23 00-0278	EA Spread Spectrum Stubby Antenna (Calsense SR-STUBBY)	569.69		46.28
32 84 23 00-0279	EA WiFi Stubby Antenna (Calsense WEN-STUBBY)	569.69		46.28
32 84 23 00-0280	LF Antenna Cable With End Connectors (Calsense LMR-400-DB)	15.68		0.55
32 84 23 00-0281	EA Surge Protection Device For Antenna (Calsense ANT-PROT)	573.65		23.14
32 84 23 00-0282	EA 5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5)	933.83		46.28
32 84 23 00-0283	EA 3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM)	816.17		
32 84 23 00-0284	EA Local Radio Frequency Filter (Calsense LR-FILTER)	1,155.20		
32 84 23 00-0285	EA Spread Spectrum Frequency Filter (Calsense SR-FILTER)	853.84		
32 84 23 00-0286	Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)			
32 84 23 00-0287	EA 15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER)	515.52		69.40
32 84 23 00-0288	EA Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	1,258.71		115.68
32 84 23 00-0289	EA Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)	1,410.97		46.28
	Note: Includes GFI and receptacle.			
32 84 23 00-0290	EA Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)	1,689.19		34.71
	Note: Includes factory installed transient protection board and AC line protection.			
32 84 23 00-0291	EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)	5,307.17		34.71
	Note: Includes factory installed transient protection board and AC line protection.			
32 84 23 00-0292	EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R)	5,996.07		34.71
	Note: Includes factory installed transient protection board, AC line protection and dome antenna.			
32 84 23 00-0293	EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)	8,696.65		69.40
	Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.			
32 84 23 00-0294	EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)	9,116.15		69.40
	Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.			
32 84 23 00-0295	EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM)	297.10		
32 84 23 00-0296	EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	960.91		
32 84 23 00-0297	Central Computer For Irrigation Control Systems (32 84 23 00-0225)			

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0298 EA Central Computer For Irrigation Control Systems (Calsense COMP-2).....6,690.41 Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0299 EA Command Center Water Management Software For Central Computer (Calsense COMM-1).....11,849.99		
32 84 23 00-0300 EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5).....2,272.20 Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301 EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10).....4,479.61 Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0302 EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2) 7,214.59		
32 84 23 00-0303 EA GPRS Radio For Use At Central Computer (Calsense DTR-G) 4,314.87		
32 84 23 00-0304 Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN) 36.53 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR) 399.52 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR) 1,712.25 Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308 EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M) 148.40 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309 EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M) 1,598.10 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310 EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M) 6,849.00 Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311 Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312 EA FCC License Fee (Calsense).....240.34		
32 84 23 00-0313 EA P.C.I.A. And/or A.P.C.O. Fee (Calsense) 468.64 Note: Per frequency or frequency pair.		
32 84 23 00-0314 EA Hardware Communication Option For Irrigation Controllers (Calsense M) 1,324.14 Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315 EA Phone Line Communication Option For Irrigation Controllers (Calsense R) 1,392.63		
32 84 23 00-0316 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN) 1,392.63		
32 84 23 00-0317 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN) 2,853.75		
32 84 23 00-0318 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR) 3,629.97		
32 84 23 00-0319 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR) 3,629.97		
32 84 23 00-0320 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR) 3,629.97		
32 84 23 00-0321 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM) 11,643.30		
32 84 23 00-0322 EA Communication Hub For Irrigation Controllers (Calsense HUB) 4,481.01 Note: Accepts up to two communication options. Excludes communication options.		
32 84 23 00-0323 Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324 Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO) 1,770.54		
32 84 23 00-0326 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO) 1,770.54		
32 84 23 00-0327 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO) 1,770.54		
32 84 23 00-0328 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO) 1,770.54		
32 84 23 00-0329 Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO) 1,861.86		
32 84 23 00-0331 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO) 2,204.32		
32 84 23 00-0332 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO) 3,539.87		
32 84 23 00-0333 Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO) 2,090.16		
32 84 23 00-0335 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO) 4,418.82		
32 84 23 00-0336 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO) 5,742.96		
32 84 23 00-0337 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-RETRO) 2,090.16		
32 84 23 00-0339 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR- RETRO) 4,418.82		
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO) 5,742.96		
32 84 23 00-0341 Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-RETRO) 2,090.16		



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0343	EA	Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO).....	2,204.32	
32 84 23 00-0344	EA	Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	3,539.87	
32 84 23 00-0345 GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)				
32 84 23 00-0346	EA	Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	2,090.16	
32 84 23 00-0347	EA	Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	4,418.82	
32 84 23 00-0348	EA	Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO).....	5,742.96	
32 84 23 00-0349 Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)				
32 84 23 00-0350	EA	Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN)	2,101.58	
32 84 23 00-0351	EA	Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe)..... Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.	452.03	
32 84 23 00-0352	EA	Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG)	194.06	
32 84 23 00-0353	EA	Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT)	342.76	
32 84 23 00-0354	EA	Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)	217.20	11.57
		Note: Excludes antenna cable.		
32 84 23 00-0355	EA	Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP)	422.66	11.57
		Note: Excludes antenna cable.		
32 84 23 00-0356	EA	Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)	456.91	11.57
		Note: Excludes antenna cable.		
32 84 23 00-0357 Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120)				
		Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358	EA	12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS)	4,913.38	208.22
32 84 23 00-0359	EA	24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS)	5,181.57	219.79
32 84 23 00-0360	EA	40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS)	7,208.82	231.36
32 84 23 00-0361 LEIT Controllers (32 84 23 00-0120)				
32 84 23 00-0362 LEIT X Series Irrigation Controller (32 84 23 00-0361)				
32 84 23 00-0363	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	4,626.47	37.02
32 84 23 00-0364	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,077.08	37.02
32 84 23 00-0365	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,808.53	37.02
32 84 23 00-0366	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	6,539.97	37.02
32 84 23 00-0367	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,055.38	37.02
32 84 23 00-0368	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,570.77	37.02
32 84 23 00-0369 LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361)				
		Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,213.39	192.81
32 84 23 00-0371	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,664.01	192.81
32 84 23 00-0372	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,395.46	192.81
32 84 23 00-0373	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,126.91	192.81
32 84 23 00-0374	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,642.30	192.81
32 84 23 00-0375	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	8,157.70	192.81
32 84 23 00-0376 Enclosure For LEIT Controller Assembly (32 84 23 00-0361)				
		Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377	EA	12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch	3,533.05	259.08
		Note: For LEIT Controller		
32 84 23 00-0378 Hunter Controllers (32 84 23 00-0120)				
32 84 23 00-0379 Hunter XC Hybrid Controller (32 84 23 00-0378)				
		Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380	EA	6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS)	757.53	92.54
32 84 23 00-0381	EA	12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS)	964.14	115.68
32 84 23 00-0382 DC Latching Solenoid (32 84 23 00-0120)				
32 84 23 00-0383	EA	DC Latching Solenoid (Micro Power Solenoid) For Non-LEIT Controllers	41.74	
		Note: As per manufacture of valve.		
32 84 23 00-0384	EA	DC Solenoid For LEIT Controllers (DIG S-305DC).....	66.07	
32 84 23 00-0385 Irrigation Controller Enclosure Cabinet (32 84 23 00-0120)				
		Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0386	EA	35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,356.69	508.67
32 84 23 00-0387	EA	35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,621.34	554.91
32 84 23 00-0388	EA	35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	4,004.45	601.15
32 84 23 00-0389	EA	35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet, ...	3,356.72	508.67
32 84 23 00-0390	EA	35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	3,621.34	554.91
32 84 23 00-0391	EA	35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	4,004.45	601.15
32 84 23 00-0392	EA	35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,183.72	508.67
32 84 23 00-0393	EA	35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,551.71	554.91
32 84 23 00-0394	EA	35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,934.83	601.15
32 84 23 00-0395 Irrigation Valves (32 84 23)				
32 84 23 00-0396 Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395)				
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).				
32 84 23 00-0397	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	922.26	49.44
32 84 23 00-0398	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,094.12	60.37
32 84 23 00-0399	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,655.23	70.26
32 84 23 00-0400	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,749.55	80.67
32 84 23 00-0401	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	2,098.56	104.09
32 84 23 00-0402 Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)				
32 84 23 00-0403	EA	3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	186.05	43.14
		For Valve Key, Add	51.78	
32 84 23 00-0404	EA	3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC)	192.04	43.14
		For Locking Cover, Add	25.00	
		For Valve Key, Add	51.78	
32 84 23 00-0405	EA	1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	257.92	43.14
		For Valve Key, Add	132.46	
32 84 23 00-0406	EA	1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	281.87	43.14
		For Valve Key, Add	132.46	
32 84 23 00-0407	EA	1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	270.60	43.14
32 84 23 00-0408	EA	1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	281.87	43.14
32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395)				
Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.				
32 84 23 00-0410	EA	3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	318.88	36.43
32 84 23 00-0411	EA	1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	457.02	41.64
32 84 23 00-0412	EA	1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	829.46	48.14
32 84 23 00-0413	EA	1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	1,010.33	53.35
32 84 23 00-0414	EA	2" Anti-Siphon Pressure Type Vacuum Breaker	1,018.91	65.05
32 84 23 00-0415 Aluminum Cam And Groove Adapter (32 84 23 00-0395)				
32 84 23 00-0416	EA	1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	46.22	
32 84 23 00-0417	EA	2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	48.81	
32 84 23 00-0418	EA	1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread	47.52	
32 84 23 00-0419	EA	2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread	51.25	
32 84 23 00-0420 Manual Sprinkler Control Valves (32 84 23 00-0395)				
32 84 23 00-0421	EA	3/4" Manual Sprinkler Control Valves, With Union.....	108.59	35.13
32 84 23 00-0422	EA	1" Manual Sprinkler Control Valves, With Union.....	132.32	37.73
32 84 23 00-0423	EA	1-1/4" Manual Sprinkler Control Valves, With Union.....	202.42	47.76
32 84 23 00-0424	EA	1-1/2" Manual Sprinkler Control Valves, With Union.....	239.88	55.04
32 84 23 00-0425	EA	2" Manual Sprinkler Control Valves, With Union.....	321.37	65.05
32 84 23 00-0426 Irrigation Piping (32 84 23)				
32 84 23 00-0427 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0426)				
Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.				
32 84 23 00-0428 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0427)				
32 84 23 00-0429	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.44	1.20
		For >1,000, Deduct	-0.17	
32 84 23 00-0430	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.22	1.49
		For >1,000, Deduct	-0.21	
32 84 23 00-0431	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.06	1.80
		For >1,000, Deduct	-0.25	
32 84 23 00-0432	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.68	2.27
		For >1,000, Deduct	-0.33	
32 84 23 00-0433	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.37	2.85
		For >1,000, Deduct	-0.42	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0434	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	10.58	3.33
			For >1,000, Deduct	-0.53	
32 84 23 00-0435	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.54	4.80
			For >1,000, Deduct	-0.73	
32 84 23 00-0436	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	18.92	5.99
			For >1,000, Deduct	-0.95	
32 84 23 00-0437	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	26.73	7.49
			For >1,000, Deduct	-1.34	
32 84 23 00-0438 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0427)					
32 84 23 00-0439	LF		3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.00	1.49
			For >1,000, Deduct	-0.20	
32 84 23 00-0440	LF		1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.70	1.80
			For >1,000, Deduct	-0.24	
32 84 23 00-0441	LF		1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	6.42	2.27
			For >1,000, Deduct	-0.32	
32 84 23 00-0442	LF		2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	8.15	2.85
			For >1,000, Deduct	-0.41	
32 84 23 00-0443	LF		2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	10.26	3.33
			For >1,000, Deduct	-0.51	
32 84 23 00-0444	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.42	4.80
			For >1,000, Deduct	-0.72	
32 84 23 00-0445	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	19.60	5.99
			For >1,000, Deduct	-0.98	
32 84 23 00-0446	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	31.00	7.49
			For >1,000, Deduct	-1.55	
32 84 23 00-0447 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0427)					
32 84 23 00-0448	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.18	1.49
			For >1,000, Deduct	-0.21	
32 84 23 00-0449	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.95	1.80
			For >1,000, Deduct	-0.25	
32 84 23 00-0450	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	6.90	2.27
			For >1,000, Deduct	-0.35	
32 84 23 00-0451	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	8.94	2.85
			For >1,000, Deduct	-0.45	
32 84 23 00-0452	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	11.51	3.33
			For >1,000, Deduct	-0.58	
32 84 23 00-0453	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	14.54	4.80
			For >1,000, Deduct	-0.73	
32 84 23 00-0454	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	18.92	5.99
			For >1,000, Deduct	-0.95	
32 84 23 00-0455	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	27.14	7.49
			For >1,000, Deduct	-1.36	
32 84 23 00-0456 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted (32 84 23 00-0426)					
Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.					
32 84 23 00-0457 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0458	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.42	1.49
			For >1,000, Deduct	-0.32	
32 84 23 00-0459	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.29	1.80
			For >1,000, Deduct	-0.36	
32 84 23 00-0460	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.90	2.27
			For >1,000, Deduct	-0.45	
32 84 23 00-0461	LF		2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.58	2.85
			For >1,000, Deduct	-0.53	
32 84 23 00-0462	LF		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.81	3.33
			For >1,000, Deduct	-0.64	
32 84 23 00-0463	LF		3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.76	4.80
			For >1,000, Deduct	-0.84	
32 84 23 00-0464	LF		4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	21.13	5.99
			For >1,000, Deduct	-1.06	
32 84 23 00-0465	LF		6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	28.94	7.49
			For >1,000, Deduct	-1.45	
32 84 23 00-0466 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0467	LF		3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.70	1.49
			For >1,000, Deduct	-0.34	
32 84 23 00-0468	LF		1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.56	1.80
			For >1,000, Deduct	-0.38	
32 84 23 00-0469	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.17	2.27
			For >1,000, Deduct	-0.46	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0470	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.85	2.85
		<i>For >1,000, Deduct</i>	-0.54	
32 84 23 00-0471	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	13.08	3.33
		<i>For >1,000, Deduct</i>	-0.65	
32 84 23 00-0472	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	17.02	4.80
		<i>For >1,000, Deduct</i>	-0.85	
32 84 23 00-0473	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	21.41	5.99
		<i>For >1,000, Deduct</i>	-1.07	
32 84 23 00-0474	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	29.21	7.49
		<i>For >1,000, Deduct</i>	-1.46	
32 84 23 00-0475 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0456)				
32 84 23 00-0476	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.97	1.49
		<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0477	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.82	1.80
		<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0478	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.44	2.27
		<i>For >1,000, Deduct</i>	-0.47	
32 84 23 00-0479	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	11.11	2.85
		<i>For >1,000, Deduct</i>	-0.56	
32 84 23 00-0480	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	13.34	3.33
		<i>For >1,000, Deduct</i>	-0.67	
32 84 23 00-0481	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	17.29	4.80
		<i>For >1,000, Deduct</i>	-0.86	
32 84 23 00-0482	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	21.68	5.99
		<i>For >1,000, Deduct</i>	-1.08	
32 84 23 00-0483	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	29.47	7.49
		<i>For >1,000, Deduct</i>	-1.47	
32 84 23 00-0484 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0456)				
32 84 23 00-0485	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.31	1.49
		<i>For >1,000, Deduct</i>	-0.32	
32 84 23 00-0486	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.10	1.80
		<i>For >1,000, Deduct</i>	-0.36	
32 84 23 00-0487	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	8.92	2.27
		<i>For >1,000, Deduct</i>	-0.45	
32 84 23 00-0488	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	10.96	2.85
		<i>For >1,000, Deduct</i>	-0.55	
32 84 23 00-0489	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.42	3.33
		<i>For >1,000, Deduct</i>	-0.67	
32 84 23 00-0490	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.64	4.80
		<i>For >1,000, Deduct</i>	-0.83	
32 84 23 00-0491	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	21.80	5.99
		<i>For >1,000, Deduct</i>	-1.09	
32 84 23 00-0492	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	33.21	7.49
		<i>For >1,000, Deduct</i>	-1.66	
32 84 23 00-0493 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0456)				
32 84 23 00-0494	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.59	1.49
		<i>For >1,000, Deduct</i>	-0.33	
32 84 23 00-0495	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.37	1.80
		<i>For >1,000, Deduct</i>	-0.37	
32 84 23 00-0496	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.19	2.27
		<i>For >1,000, Deduct</i>	-0.46	
32 84 23 00-0497	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	11.23	2.85
		<i>For >1,000, Deduct</i>	-0.56	
32 84 23 00-0498	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	13.69	3.33
		<i>For >1,000, Deduct</i>	-0.68	
32 84 23 00-0499	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	16.90	4.80
		<i>For >1,000, Deduct</i>	-0.85	
32 84 23 00-0500	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	22.08	5.99
		<i>For >1,000, Deduct</i>	-1.10	
32 84 23 00-0501	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	33.48	7.49
		<i>For >1,000, Deduct</i>	-1.67	
32 84 23 00-0502 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0456)				
32 84 23 00-0503	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.86	1.49
		<i>For >1,000, Deduct</i>	-0.34	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0504	LF		1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	7.63	1.80
			For >1,000, Deduct	-0.38	
32 84 23 00-0505	LF		1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 124" Of Cover, Backfilled And Compacted	9.46	2.27
			For >1,000, Deduct	-0.47	
32 84 23 00-0506	LF		2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	11.49	2.85
			For >1,000, Deduct	-0.57	
32 84 23 00-0507	LF		2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	13.95	3.33
			For >1,000, Deduct	-0.70	
32 84 23 00-0508	LF		3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	17.17	4.80
			For >1,000, Deduct	-0.86	
32 84 23 00-0509	LF		4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	22.35	5.99
			For >1,000, Deduct	-1.12	
32 84 23 00-0510	LF		6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	33.74	7.49
			For >1,000, Deduct	-1.69	
32 84 23 00-0511 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0512	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.38	1.49
			For >1,000, Deduct	-0.32	
32 84 23 00-0513	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.17	1.80
			For >1,000, Deduct	-0.36	
32 84 23 00-0514	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.12	2.27
			For >1,000, Deduct	-0.46	
32 84 23 00-0515	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	11.15	2.85
			For >1,000, Deduct	-0.56	
32 84 23 00-0516	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	13.74	3.33
			For >1,000, Deduct	-0.69	
32 84 23 00-0517	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	16.76	4.80
			For >1,000, Deduct	-0.84	
32 84 23 00-0518	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	21.13	5.99
			For >1,000, Deduct	-1.06	
32 84 23 00-0519	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	29.36	7.49
			For >1,000, Deduct	-1.47	
32 84 23 00-0520 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0521	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.66	1.49
			For >1,000, Deduct	-0.33	
32 84 23 00-0522	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.44	1.80
			For >1,000, Deduct	-0.37	
32 84 23 00-0523	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	9.39	2.27
			For >1,000, Deduct	-0.47	
32 84 23 00-0524	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	11.42	2.85
			For >1,000, Deduct	-0.57	
32 84 23 00-0525	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	14.01	3.33
			For >1,000, Deduct	-0.70	
32 84 23 00-0526	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	17.02	4.80
			For >1,000, Deduct	-0.85	
32 84 23 00-0527	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	21.41	5.99
			For >1,000, Deduct	-1.07	
32 84 23 00-0528	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	29.63	7.49
			For >1,000, Deduct	-1.48	
32 84 23 00-0529 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0456)					
32 84 23 00-0530	LF		3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	6.93	1.49
			For >1,000, Deduct	-0.35	
32 84 23 00-0531	LF		1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.70	1.80
			For >1,000, Deduct	-0.39	
32 84 23 00-0532	LF		1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	9.66	2.27
			For >1,000, Deduct	-0.48	
32 84 23 00-0533	LF		2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	11.68	2.85
			For >1,000, Deduct	-0.58	
32 84 23 00-0534	LF		2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	14.27	3.33
			For >1,000, Deduct	-0.71	
32 84 23 00-0535	LF		3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	17.29	4.80
			For >1,000, Deduct	-0.86	
32 84 23 00-0536	LF		4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	21.68	5.99
			For >1,000, Deduct	-1.08	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0537	LF		6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	29.89 -1.49	7.49
32 84 23 00-0538			Irrigation Riser Piping With Fittings (32 84 23 00-0426)		
32 84 23 00-0539	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	20.74	3.60
32 84 23 00-0540	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.26	4.49
32 84 23 00-0541	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.14	4.19
32 84 23 00-0542	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	24.03	5.24
32 84 23 00-0543	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	44.10	6.29
32 84 23 00-0544	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	46.78	7.87
32 84 23 00-0545	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	51.78	8.09
32 84 23 00-0546	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	55.22	10.11
32 84 23 00-0547	EA		1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	59.47	9.89
32 84 23 00-0548	EA		3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	63.67	12.36
32 84 23 00-0549			Irrigation Crossover Piping With Fittings (32 84 23 00-0426) Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0593 for irrigation wiring.		
32 84 23 00-0550			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0549)		
32 84 23 00-0551	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation <i>For >1,000, Deduct</i>	37.53 -1.88	
32 84 23 00-0552	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation <i>For >1,000, Deduct</i>	51.99 -2.60	
32 84 23 00-0553	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation <i>For >1,000, Deduct</i>	70.51 -3.53	
32 84 23 00-0554	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation <i>For >1,000, Deduct</i>	92.22 -4.61	
32 84 23 00-0555			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0549)		
32 84 23 00-0556	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	38.34 -1.92	
32 84 23 00-0557	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	52.88 -2.64	
32 84 23 00-0558	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	71.49 -3.57	
32 84 23 00-0559	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	93.30 -4.67	
32 84 23 00-0560			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 48" Open Trench (32 84 23 00-0549)		
32 84 23 00-0561	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation <i>For >1,000, Deduct</i>	39.14 -1.96	
32 84 23 00-0562	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	53.78 -2.69	
32 84 23 00-0563	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	72.48 -3.62	
32 84 23 00-0564	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation <i>For >1,000, Deduct</i>	94.38 -4.72	
32 84 23 00-0565			Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore (32 84 23 00-0549)		
32 84 23 00-0566	LF		6" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	98.01 -4.90	
32 84 23 00-0567	LF		8" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	124.70 -6.24	
32 84 23 00-0568	LF		10" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	149.24 -7.46	
32 84 23 00-0569	LF		12" Irrigation Crossover, Corrugated High-Density Polyethylene Pipe (CHDPE), Directional Bore Installation <i>For >1,000, Deduct</i>	176.99 -8.85	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0570 Below Ground Cam Adapter Assembly (32 84 23 00-0426) Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0571 EA Below Ground Cam Adapter Assembly Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	791.79	
32 84 23 00-0572 Above Ground Cam Adapter Assembly (32 84 23 00-0426) Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0573 EA Above Ground Cam Adapter Assembly Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	490.96	
32 84 23 00-0574 Thrust Block (32 84 23 00-0426)		
32 84 23 00-0575 EA Thrust Block For 1-1/2" Pipe Size And Smaller	41.12	
32 84 23 00-0576 EA Thrust Block For 2" Pipe	70.58	
32 84 23 00-0577 EA Thrust Block For 3" And 4" Pipe	100.07	
32 84 23 00-0578 EA Thrust Block For 6" Pipe	159.82	
32 84 23 00-0579 EA Thrust Block For 8" Pipe	227.38	
32 84 23 00-0580 Irrigation Swing Joints (32 84 23)		
32 84 23 00-0581 EA 3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	71.00	23.84
32 84 23 00-0582 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	80.80	26.63
32 84 23 00-0583 EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	108.99	26.63
32 84 23 00-0584 EA 1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	50.15	31.08
32 84 23 00-0585 EA 3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	67.02	41.47
32 84 23 00-0586 EA 1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	84.37	50.85
32 84 23 00-0587 EA 1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	71.31	31.57
32 84 23 00-0588 EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	94.29	41.88
32 84 23 00-0589 EA 1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	116.02	51.36
32 84 23 00-0590 EA 1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	40.40	19.33
32 84 23 00-0591 EA 3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	53.99	25.77
32 84 23 00-0592 EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	64.21	31.96
32 84 23 00-0593 Irrigation Control Wire (32 84 23) Note: Excludes excavation and backfill.		
32 84 23 00-0594 18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0595 CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	57.08	17.98
32 84 23 00-0596 CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	74.80	20.97
32 84 23 00-0597 CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	86.07	23.96
32 84 23 00-0598 CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	98.53	26.96
32 84 23 00-0599 CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	112.13	29.96
32 84 23 00-0600 CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	133.97	32.95
32 84 23 00-0601 CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	154.92	35.95
32 84 23 00-0602 CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	168.33	38.94
32 84 23 00-0603 CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	184.81	41.94
32 84 23 00-0604 CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	203.75	44.94
32 84 23 00-0605 CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	210.89	47.93
32 84 23 00-0606 CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	219.22	50.93
32 84 23 00-0607 CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	231.28	53.93
32 84 23 00-0608 16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0609 CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	60.20	17.98
32 84 23 00-0610 14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0611 CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	60.21	17.98
32 84 23 00-0612 12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0613	CLF		1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	80.84	17.98
32 84 23 00-0614			10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0593)		
32 84 23 00-0615	CLF		1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	106.99	17.98
32 84 23 00-0616			Root Watering Systems (32 84 23)		
			Note: Includes swing assembly.		
32 84 23 00-0617	EA		0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401).....	115.16	23.96
			For Root Watering Sand Sock, Add	5.93	
32 84 23 00-0618	EA		0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	124.49	23.96
			For Root Watering Sand Sock, Add	5.93	
32 84 23 00-0619	EA		0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402).....	115.16	23.96
			For Root Watering Sand Sock, Add	5.93	
32 84 23 00-0620	EA		0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402)	124.49	23.96
			For Root Watering Sand Sock, Add	5.93	
32 84 23 00-0621	EA		1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404)	124.49	23.96
			For Root Watering Sand Sock, Add	5.93	
32 84 23 00-0622	EA		0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401).....	99.92	20.97
			For Root Watering Sand Sock, Add	5.33	
32 84 23 00-0623	EA		0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401)	108.87	20.97
			For Root Watering Sand Sock, Add	5.33	
32 84 23 00-0624	EA		0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402).....	99.92	20.97
			For Root Watering Sand Sock, Add	5.33	
32 84 23 00-0625	EA		0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402)	108.87	20.97
			For Root Watering Sand Sock, Add	5.33	
32 84 23 00-0626	EA		0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401)	66.80	17.98
			For Root Watering Sand Sock, Add	4.74	
32 84 23 00-0627	EA		0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401)	75.32	17.98
			For Root Watering Sand Sock, Add	4.74	

32 90 Planting (32)

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar or cultivated varieties. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation (32 90)**32 91 13 Soil Preparation** (32 91)**32 91 13 16 Mulching** (32 91 13)**32 91 13 16-0001 Mulch** (32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.

32 91 13 16-0002	CY	Pine Bark Nugget Mulch	126.21	
		For Work On Slopes >2.5:1, Add	15.11	
		For >5 To 20, Deduct	-10.09	
		For >20 To 50, Deduct	-15.13	
		For >50, Deduct	-21.44	
32 91 13 16-0003	CY	Hardwood Bark Nugget Mulch	124.19	
		For Work On Slopes >2.5:1, Add	15.11	
		For >5 To 20, Deduct	-9.99	
		For >20 To 50, Deduct	-14.98	
		For >50, Deduct	-21.19	
32 91 13 16-0004	CY	Pine Wood Chip Mulch	120.13	
		For Work On Slopes >2.5:1, Add	15.11	
		For >5 To 20, Deduct	-9.78	
		For >20 To 50, Deduct	-14.68	
		For >50, Deduct	-20.68	
32 91 13 16-0005	CY	Hardwood Chip Mulch	128.24	
		For Work On Slopes >2.5:1, Add	15.11	
		For >5 To 20, Deduct	-10.19	
		For >20 To 50, Deduct	-15.28	
		For >50, Deduct	-21.70	
32 91 13 16-0006	CY	Shredded Hardwood Mulch	128.24	
		For Work On Slopes >2.5:1, Add	15.11	
		For >5 To 20, Deduct	-10.19	
		For >20 To 50, Deduct	-15.28	
		For >50, Deduct	-21.70	
32 91 13 16-0007	CY	Shredded Pine Mulch	110.00	
		For Work On Slopes >2.5:1, Add	15.11	
		For >5 To 20, Deduct	-9.28	
		For >20 To 50, Deduct	-13.92	
		For >50, Deduct	-19.42	



Exterior Improvements			32
Planting			32 90
Planting Preparation			32 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0008	CY		Shredded Cedar Mulch.....	149.52	
			For Work On Slopes >2.5:1, Add	15.11	
			For >5 To 20, Deduct	-11.25	
			For >20 To 50, Deduct	-16.88	
			For >50, Deduct	-24.36	
32 91 13 16-0009	CY		Shredded Cypress Mulch	146.48	
			For Work On Slopes >2.5:1, Add	15.11	
			For >5 To 20, Deduct	-11.10	
			For >20 To 50, Deduct	-16.65	
			For >50, Deduct	-23.98	
32 91 13 16-0010	CY		Shredded Redwood Mulch	154.59	
			For Work On Slopes >2.5:1, Add	15.11	
			For >5 To 20, Deduct	-11.51	
			For >20 To 50, Deduct	-17.26	
			For >50, Deduct	-24.99	
32 91 13 16-0011	CY		Pea Gravel Mulch	129.92	
			For Work On Slopes >2.5:1, Add	15.11	
			For >5 To 20, Deduct	-10.27	
			For >20 To 50, Deduct	-15.41	
			For >50, Deduct	-21.91	
32 91 13 16-0012	CY		Chunk Recycled Tire Mulch	238.24	
			For Work On Slopes >2.5:1, Add	19.27	
			For >5 To 20, Deduct	-16.73	
			For >20 To 50, Deduct	-25.10	
			For >50, Deduct	-37.01	
32 91 13 16-0013	CY		Chunk Colored Recycled Tire Mulch	378.10	
			For Work On Slopes >2.5:1, Add	19.27	
			For >5 To 20, Deduct	-23.72	
			For >20 To 50, Deduct	-35.58	
			For >50, Deduct	-54.49	
32 91 13 16-0014	CY		Shredded Recycled Tire Mulch	380.13	
			For Work On Slopes >2.5:1, Add	19.27	
			For >5 To 20, Deduct	-23.82	
			For >20 To 50, Deduct	-35.74	
			For >50, Deduct	-54.74	
32 91 13 16-0015	CY		Shredded Colored Recycled Tire Mulch	659.84	
			For Work On Slopes >2.5:1, Add	19.27	
			For >5 To 20, Deduct	-37.81	
			For >20 To 50, Deduct	-56.72	
			For >50, Deduct	-89.71	
32 91 13 16-0016	EA		Pine Straw Mulch Bale.....	11.22	
			Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
			For Work On Slopes >2.5:1, Add	0.83	
			For >100 To 250, Deduct	-0.77	
			For >250 To 500, Deduct	-0.98	
			For >500, Deduct	-1.33	
32 91 13 16-0017	EA		Wheat Straw Mulch Bale	11.44	
			Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
			For Work On Slopes >2.5:1, Add	0.62	
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-0.88	
			For >500, Deduct	-1.30	
32 91 13 16-0018	CY		Stone/Gravel Mulch, Marble Chips	312.41	
			For Work On Slopes >2.5:1, Add	15.11	
			For >5 To 20, Deduct	-19.40	
			For >20 To 50, Deduct	-29.10	
			For >50, Deduct	-44.72	
32 91 13 16-0019	CY		Stone Mulch, Decomposed Granite Chips	132.14	
			For Work On Slopes >2.5:1, Add	15.11	
			For >5 To 20, Deduct	-10.38	
			For >20 To 50, Deduct	-15.58	
			For >50, Deduct	-22.18	
32 91 13 16-0020			Compost Soil Amendment (AgriService) (32 91 13 16)		
			Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles.		
32 91 13 16-0021	CY		Humic Compost (OIM)	96.58	
			Note: (Agri Service or Equal)		
			For Work On Slopes >2.5:1, Add	15.11	
			For >100 To 1,000, Deduct	-16.16	
			For >1,000, Deduct	-24.77	
32 91 13 26			Planting Beds (32 91 13)		
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001			Plant Bed Preparation (32 91 13 26)		
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002	SF		Up To 8" Deep, Prepare And Mix Plant Bed, By Machine	1.21	
			Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
			For Work On Slopes >2.5:1, Add	0.24	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0003	SF		>8" To 13" Deep, Prepare And Mix Plant Bed, By Machine..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	1.38 0.28	
32 91 13 26-0004	SF		>13" To 18" Deep, Prepare And Mix Plant Bed, By Machine..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	1.63 0.33	
32 91 13 26-0005	SF		Up To 8" Deep, Prepare And Mix Plant Bed By Hand Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	5.35 1.07	
32 91 13 26-0006	SF		>8" To 13" Deep, Prepare And Mix Plant Bed By Hand..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	6.15 1.23	
32 91 13 26-0007	SF		>13" To 18" Deep, Prepare And Mix Plant Bed By Hand..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	7.23 1.45	
32 91 13 26-0008 Plant Bed Preparation With Humic Compost (32 91 13 26)					
32 91 13 26-0009	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.30 0.25 -0.19 -0.31 -0.62 -0.87	
32 91 13 26-0010	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.63 0.30 -0.23 -0.38 -0.76 -1.06	
32 91 13 26-0011	SF		Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.94 0.35 -0.26 -0.44 -0.88 -1.24	
32 91 13 26-0012 Planting Pit Preparation (32 91 13 26)					
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013	CY		Excavate Planting Pit By Hand, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	92.54 18.51	
32 91 13 26-0014	CY		Excavate Planting Pit By Hand, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	185.08 37.02	
32 91 13 26-0015	CY		Excavate Planting Pit By Machine, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	15.22 3.04	
32 91 13 26-0016	CY		Excavate Planting Pit By Machine, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	19.80 3.96	
32 91 13 26-0017	CY		Backfill Planting Pit By Hand With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	82.24 16.45	
32 91 13 26-0018	CY		Backfill Planting Pit By Hand With Contractor Furnished Planting Mix <i>For Work On Slopes >2.5:1, Add</i>	134.91 14.97	
32 91 13 26-0019	CY		Backfill Planting Pit By Machine, With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	8.15 1.63	
32 91 13 26-0020	CY		Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix..... <i>For Work On Slopes >2.5:1, Add</i>	79.95 3.98	
32 91 13 26-0021 Weed Barrier (32 91 13 26)					
32 91 13 26-0022	SY		Up To 3 Oz/SY Non-Woven, Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	2.46 0.15	
32 91 13 26-0023	SY		4 Oz/SY Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	3.34 0.15	
32 91 13 26-0024	SY		5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	3.73 0.15	

32 91 13 33 Soil Conditioners (32 91 13)**32 91 13 33-0001 Spread Soil Conditioners** (32 91 13 33)



Exterior Improvements		32
Planting		32 90
Planting Preparation		32 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 33-0002	SY		Aluminum Sulfate 1 Lb./SY, Push Spreader	0.48	
32 91 13 33-0003	MSF		Aluminum Sulfate 110 Lb./MSF Tractor Spreader	46.42	
32 91 13 33-0004	MSF		Fertilizer, 20 Lb./MSF, Push Spreader	7.80	
32 91 13 33-0005	MSF		Fertilizer, 20 Lb./MSF, Tractor Spread	3.39	
32 91 13 33-0006	MSF		Fertilizer, 20 Lb./MSF, Truck Spread	5.83	
32 91 13 33-0007	SY		Pelletized Lime, 1 Lb./SY, Push Spreader	0.11	
32 91 13 33-0008	MSF		Pelitized Lime, 110 Lb./MSF, Tractor Spreader	8.75	
32 91 13 33-0009	SY		Perlite, 1" Deep, Push Spreader	4.22	
32 91 13 33-0010	MSF		Perlite, 1" Deep, Tractor Spreader	439.42	
32 91 13 33-0011	SY		Vermiculite, Push Spreader	3.92	
32 91 13 33-0012	MSF		Vermiculite, Tractor Spreader	429.24	
32 91 13 33-0013	SY		Humate Granular Soil Conditioner, 0.10 Lb./SY, Push Spreader	0.23	
32 91 13 33-0014	MSF		Humate Granular Soil Conditioner, 10 Lb./MSF, Tractor Spreader	21.08	
32 91 13 36 Lawn Bed Preparation (32 91 13)					
32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)					
32 91 13 36-0002	MSF		Rake Topsoil With Machine	94.36	
32 91 13 36-0003	MSF		Rake Topsoil By Hand	74.02	
32 91 13 36-0004	MSF		Screen Loam By Hand	49.35	
32 91 13 36-0005	SY		Roll Topsoil With Machine	1.22	
32 91 13 36-0006	SY		Roll Topsoil By Hand	3.31	
32 91 13 36-0007	MSF		Removal Of Rocks And Debris With Machine	11.16	
32 91 13 36-0008	MSF		Removal Of Rocks And Debris By Hand	34.36	
32 91 13 36-0009	MSF		Root Raking And Loading, No Boulders	58.39	
			For >45 to 225, Deduct	-40.87	
			For >225, Deduct	-52.55	
32 91 13 36-0010	MSF		Root Raking And Loading, With Boulders	97.32	
			For >45 to 225, Deduct	-68.12	
			For >225, Deduct	-87.59	
32 91 13 36-0011	MSF		Up To 6" Deep Tilling Topsoil With Tractor	5.27	
32 91 13 36-0012	MSF		>6" To 12" Deep Tilling Topsoil With Tractor	10.68	
			For Work On Slopes >2.5:1, Add	2.14	
32 91 13 36-0013	SY		Up To 2" Deep Tilling Topsoil With Rototiller	0.79	
32 91 13 36-0014	SY		>2" To 4" Deep Tilling Topsoil With Rototiller	0.94	
32 91 13 36-0015	SY		>4" To 6" Deep Tilling Topsoil With Rototiller	1.18	
32 91 13 36-0016	LF		"V" Cut Soil For Edge Of Planting Beds	1.31	
32 91 13 36-0017 Sod Removal (32 91 13 36)					
32 91 13 36-0018	SY		Removal Of Sod By Hand	6.24	
			For Work On Slopes >2.5:1, Add	1.25	
32 91 13 36-0019	SY		Removal Of Sod With Machine	0.71	
			For Work On Slopes >2.5:1, Add	0.14	
32 91 13 36-0020	SY		Pile Sod By Hand	3.70	
			For Work On Slopes >2.5:1, Add	0.74	
32 91 13 36-0021	SY		Pile Sod With Machine	1.33	
			For Work On Slopes >2.5:1, Add	0.27	
32 91 19 Landscape Grading (32 91)					
32 91 19 13 Topsoil Placement and Grading (32 91 19)					
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)					
32 91 19 13-0002	CY		Removal Of Topsoil, 4" Deep Stockpile On Site	5.49	
32 91 19 13-0003	CY		Removal Of Topsoil, 6" Deep Stockpile On Site	5.43	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)					
32 91 19 13-0005	CY		Screen Topsoil With Vibrating Screen, Wet Material (Organic)	11.84	
32 91 19 13-0006	CY		Screen Topsoil With Vibrating Screen, Dry Material	7.89	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)					
32 91 19 13-0008	CY		Spread Topsoil By Machine From Stockpile	9.03	
32 91 19 13-0009	CY		Spread Topsoil By Hand From Stockpile	70.63	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)					
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0043 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.					
32 91 19 13-0011	SY		Furnish And Place Imported Screened Topsoil, 2" Deep	4.54	
			For Unscreened, Deduct	-0.63	
32 91 19 13-0012	SY		Furnish And Place Imported Screened Topsoil, 4" Deep	8.73	
			For Unscreened, Deduct	-1.26	
32 91 19 13-0013	SY		Furnish And Place Imported Screened Topsoil, 6" Deep	12.65	
			For Unscreened, Deduct	-1.89	
32 91 19 13-0014	SY		Furnish And Place Imported Screened Topsoil, 9" Deep	18.32	
			For Unscreened, Deduct	-2.83	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep..... <i>For Unscreened, Deduct</i>	24.00 -3.78	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep..... <i>For Unscreened, Deduct</i>	66.60 -11.33	
32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13) Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine.....	71.21	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine.....	49.83	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine.....	29.21	
32 92 Turf and Grasses (32 90)		
32 92 16 Plugging (32 92)		
32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16) Note: Includes fine grade and soil preparation.		
32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0003 MSF Plugging By Hand, 6" On Center	237.77	
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center.....	31.11	
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center	22.70	
32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0007 MSF Plugging By Hand, 9" On Center	182.45	
32 92 16 00-0008 MSF Plugging By Walk Behind Planter, 9" On Center.....	24.45	
32 92 16 00-0009 MSF Plugging By Towed Planter, 9" On Center	17.03	
32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)		
32 92 16 00-0011 MSF Plugging By Hand, 12" On Center	153.90	
32 92 16 00-0012 MSF Plugging By Walk Behind Planter, 12" On Center.....	16.61	
32 92 16 00-0013 MSF Plugging By Towed Planter, 12" On Center	10.91	
32 92 19 Seeding (32 92)		
32 92 19 13 Mechanical Seeding (32 92 19) Note: Includes fertilizing, liming, mixing, seeding and initial watering.		
32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13) Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 13-0002 MSF Common Bluegrass, Tractor Spreader	47.25	
Note: 4 LB/MSF spread rate.		
32 92 19 13-0003 MSF Tall Fescue, Tractor Spreader	39.48	
Note: 5.5 LB/MSF spread rate.		
32 92 19 13-0004 MSF Rye, Tractor Spreader	40.22	
Note: 10 LB/MSF spread rate.		
32 92 19 13-0005 MSF Shade Mix, Tractor Spreader	44.00	
Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
32 92 19 13-0006 MSF Turf Mix, Tractor Spreader	46.70	
Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
32 92 19 13-0007 MSF Slope Mix, Tractor Spreader	43.09	
Note: 6 LB/MSF spread rate.		
32 92 19 13-0008 MSF Utility Mix, Tractor Spreader	38.59	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
32 92 19 13-0009 MSF Wild Flower Mix, Tractor Spreader	30.10	
Note: 0.10 LB/MSF spread rate.		
32 92 19 13-0010 MSF Crown Vetch Mix, Tractor Spreader.....	97.26	
Note: 4 LB/MSF spread rate.		
32 92 19 13-0011 MSF Athletic Mix, Tractor Spreader	57.54	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
32 92 19 13-0012 MSF White Clover Mix, Tractor Spreader.....	30.00	
Note: 7 LB/MSF spread rate.		
32 92 19 13-0013 MSF Ladino Clover Mix, Tractor Spreader	33.62	
Note: 7 LB/MSF spread rate.		
32 92 19 13-0014 Hydro Or Air Mechanical Seeding (32 92 19 13)		
32 92 19 13-0015 MSF Common Bluegrass, Hydro Or Air Seeding	96.30	
Note: 4 LB/MSF spread rate.		
<i>For Spot Areas Up To 1, Add</i>	103.73	
<i>For >1 To 4, Add</i>	66.68	
<i>For >4 To 7.5, Add</i>	45.20	
<i>For >7.5 To 10, Add</i>	22.60	
<i>For >45, Deduct</i>	-7.78	
<i>For Tackifier, Add</i>	4.46	



Exterior Improvements		32
Planting		32 90
Turf and Grasses		32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0016	MSF		Tall Fescue, Hydro Or Air Seeding 101.94 Note: 5.5 LB/MSF spread rate. For Spot Areas Up To 1, Add 105.98 For >1 To 4, Add 67.81 For >4 To 7.5, Add 45.76 For >7.5 To 10, Add 22.88 For >45, Deduct -8.06 For Tackifier, Add 4.46		
32 92 19 13-0017	MSF		Rye, Hydro Or Air Spread 96.54 Note: 10 LB/MSF spread rate. For Spot Areas Up To 1, Add 103.82 For >1 To 4, Add 66.73 For >4 To 7.5, Add 45.22 For >7.5 To 10, Add 22.61 For >45, Deduct -7.79 For Tackifier, Add 4.46		
32 92 19 13-0018	MSF		Shade Mix, Hydro Or Air Seeding 96.30 Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass. For Spot Areas Up To 1, Add 103.73 For >1 To 4, Add 66.68 For >4 To 7.5, Add 45.20 For >7.5 To 10, Add 22.60 For >45, Deduct -7.78 For Tackifier, Add 4.46		
32 92 19 13-0019	MSF		Turf Mix, Hydro Or Air Seeding 101.94 Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass. For Spot Areas Up To 1, Add 105.98 For >1 To 4, Add 67.81 For >4 To 7.5, Add 45.76 For >7.5 To 10, Add 22.88 For >45, Deduct -8.06 For Tackifier, Add 4.46		
32 92 19 13-0020	MSF		Slope Mix, Hydro Or Air Seeding 99.52 Note: 6 LB/MSF spread rate. For Spot Areas Up To 1, Add 105.02 For >1 To 4, Add 67.33 For >4 To 7.5, Add 45.52 For >7.5 To 10, Add 22.76 For >45, Deduct -7.94 For Tackifier, Add 4.46		
32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding 97.57 Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass. For Spot Areas Up To 1, Add 104.24 For >1 To 4, Add 66.94 For >4 To 7.5, Add 45.33 For >7.5 To 10, Add 22.66 For >45, Deduct -7.84 For Tackifier, Add 4.46		
32 92 19 13-0022	MSF		Wild Flower Mix, Hydro Or Air Seeding 91.30 Note: 0.10 LB/MSF spread rate. For Spot Areas Up To 1, Add 101.73 For >1 To 4, Add 65.68 For >4 To 7.5, Add 44.70 For >7.5 To 10, Add 22.35 For >45, Deduct -7.53 For Tackifier, Add 4.46		
32 92 19 13-0023	MSF		Crown Vetch Mix, Hydro Or Air Seeding 147.81 Note: 4 LB/MSF spread rate. For Spot Areas Up To 1, Add 124.33 For >1 To 4, Add 76.99 For >4 To 7.5, Add 50.35 For >7.5 To 10, Add 25.17 For >45, Deduct -10.35 For Tackifier, Add 4.46		
32 92 19 13-0024	MSF		Athletic Mix, Hydro Or Air Seeding 130.12 Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass. For Spot Areas Up To 1, Add 117.26 For >1 To 4, Add 73.45 For >4 To 7.5, Add 48.58 For >7.5 To 10, Add 24.29 For >45, Deduct -9.47 For Tackifier, Add 4.46		
32 92 19 13-0025	MSF		White Clover Mix, Hydro Or Air Seeding 83.67 Note: 7 LB/MSF spread rate. For Spot Areas Up To 1, Add 98.68 For >1 To 4, Add 64.16 For >4 To 7.5, Add 43.94 For >7.5 To 10, Add 21.97 For >45, Deduct -7.15 For Tackifier, Add 4.46		

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0026	MSF		Ladino Clover Mix, Hydro Or Air Seeding 93.08 Note: 7 LB/MSF spread rate. For Spot Areas Up To 1, Add 102.44 For >1 To 4, Add 66.04 For >4 To 7.5, Add 44.88 For >7.5 To 10, Add 22.44 For >45, Deduct -7.62 For Tackifier, Add 4.46		
32 92 19 13-0027	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread 97.91 Note: 4 LB/MSF spread rate. For Spot Areas Up To 1, Add 104.37 For >1 To 4, Add 67.01 For >4 To 7.5, Add 45.36 For >7.5 To 10, Add 22.68 For >45, Deduct -7.86 For Tackifier, Add 4.46		
32 92 19 13-0028	MSF		2,500 Lb./Acre, High Performance - Flexible Growth Medium 119.50 Note: Applied with seed. Excludes seed. For >45, Deduct -7.46		
32 92 19 13-0029	MSF		3,000 Lb./Acre, High Performance - Flexible Growth Medium 138.96 Note: Applied with seed. Excludes seed. For >45, Deduct -8.50		
32 92 19 13-0030	MSF		3,500 Lb./Acre, High Performance - Flexible Growth Medium 158.49 Note: Applied with seed. Excludes seed. For >45, Deduct -9.56		
32 92 19 13-0031	MSF		4,000 Lb./Acre, High Performance - Flexible Growth Medium 178.09 Note: Applied with seed. Excludes seed. For >45, Deduct -10.62		
32 92 19 13-0032	MSF		4,500 Lb./Acre, High Performance - Flexible Growth Medium 197.78 Note: Applied with seed. Excludes seed. For >45, Deduct -11.69		
32 92 19 19			Seeding by Hand (32 92 19)		
			Note: Includes fertilizing, liming, mixing, seeding and initial watering. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0001			Push Spreader Or Hand Seeding (32 92 19 19)		
			Note: Excludes straw. See CSI section 32 91 13 16-0017 for wheat straw mulch.		
32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand 114.73 Note: 4 LB/MSF spread rate. For >5 To 20, Deduct -8.05 For >20 To 45, Deduct -15.54 For >45, Deduct -25.35		
32 92 19 19-0003	MSF		Tall Fescue, Push Spreader Or Hand 106.96 Note: 5.5 LB/MSF spread rate. For >5 To 20, Deduct -7.66 For >20 To 45, Deduct -14.96 For >45, Deduct -24.57		
32 92 19 19-0004	MSF		Rye, Push Spreader Or Hand 107.70 Note: 10 LB/MSF spread rate. For >5 To 20, Deduct -7.70 For >20 To 45, Deduct -15.02 For >45, Deduct -24.65		
32 92 19 19-0005	MSF		Shade Mix, Push Spreader Or Hand 111.48 Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass. For >5 To 20, Deduct -7.89 For >20 To 45, Deduct -15.30 For >45, Deduct -25.03		
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand 114.18 Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass. For >5 To 20, Deduct -8.02 For >20 To 45, Deduct -15.50 For >45, Deduct -25.30		
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand 110.57 Note: 6 LB/MSF spread rate. For >5 To 20, Deduct -7.84 For >20 To 45, Deduct -15.23 For >45, Deduct -24.94		
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand 106.07 Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass. For >5 To 20, Deduct -7.62 For >20 To 45, Deduct -14.89 For >45, Deduct -24.49		
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand 97.58 Note: 0.10 LB/MSF spread rate. For >5 To 20, Deduct -7.19 For >20 To 45, Deduct -14.26 For >45, Deduct -23.64		
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand 164.74 Note: 4 LB/MSF spread rate. For >5 To 20, Deduct -10.55 For >20 To 45, Deduct -19.29 For >45, Deduct -30.35		



Exterior Improvements			32
Planting			32 90
Turf and Grasses			32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0011	MSF		Athletic Mix, Push Spreader Or Hand Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	125.02 -8.56 -16.32 -26.38	
32 92 19 19-0012	MSF		White Clover Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	97.48 -7.19 -14.25 -23.63	
32 92 19 19-0013	MSF		Ladino Clover Mix, Push Spreader Or Hand Note: 7 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	101.10 -7.37 -14.52 -23.99	
32 92 19 19-0014	MSF		100% Kentucky Bluegrass, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	116.26 -8.13 -15.66 -25.50	
32 92 19 19-0015	MSF		70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	111.84 -7.91 -15.33 -25.06	
32 92 19 19-0016	MSF		50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	108.62 -7.74 -15.09 -24.74	
32 92 19 19-0017	MSF		50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand Note: 4.4 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	115.06 -8.07 -15.57 -25.38	
32 92 19 19-0018	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	110.23 -7.82 -15.21 -24.90	
32 92 19 19-0019	MSF		40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	114.18 -8.02 -15.50 -25.30	

32 92 23 Sodding (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

32 92 23 00-0001	Bermuda Sod	(32 92 23)	
32 92 23 00-0002	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Level Ground	1,560.88
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Level Ground.....	1,321.63
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Level Ground.....	1,125.93
32 92 23 00-0005	MSF	>8,000 SF, Bermuda Sod, Installed On Level Ground.....	988.51
32 92 23 00-0006	MSF	Up To 1,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,925.87
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,630.65
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,339.11
32 92 23 00-0009	MSF	>8,000 SF, Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,169.80
32 92 23 00-0010	Zoysia Sod	(32 92 23)	
32 92 23 00-0011	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Level Ground	2,241.96
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Level Ground.....	1,830.62
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,550.10
32 92 23 00-0014	MSF	>8,000 SF, Zoysia Sod, Installed On Level Ground.....	1,327.84
32 92 23 00-0015	MSF	Up To 1,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes	2,604.53
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,139.64
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,763.28
32 92 23 00-0018	MSF	>8,000 SF, Zoysia Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,509.13
32 92 23 00-0019	Tall Fescue Sod	(32 92 23)	
32 92 23 00-0020	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground	2,383.54
		For Hybrid Fescue "Marathon", Add	161.80
32 92 23 00-0021	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,936.81
		For Hybrid Fescue "Marathon", Add	121.90
32 92 23 00-0022	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,638.58
		For Hybrid Fescue "Marathon", Add	101.95
32 92 23 00-0023	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,398.63
		For Hybrid Fescue "Marathon", Add	82.01

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 23 00-0024 MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes <i>For Hybrid Fescue "Marathon", Add</i>	2,746.11 161.80	
32 92 23 00-0025 MSF >1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes <i>For Hybrid Fescue "Marathon", Add</i>	2,245.83 121.90	
32 92 23 00-0026 MSF >4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes <i>For Hybrid Fescue "Marathon", Add</i>	1,851.76 101.95	
32 92 23 00-0027 MSF >8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes <i>For Hybrid Fescue "Marathon", Add</i>	1,579.92 82.01	
32 92 23 00-0028 Centipede Sod (32 92 23)		
32 92 23 00-0029 MSF Up To 1,000 SF, Centipede Sod, Installed On Level Ground	1,979.61	
32 92 23 00-0030 MSF >1,000 To 4,000 SF, Centipede Sod, Installed On Level Ground	1,633.86	
32 92 23 00-0031 MSF >4,000 To 8,000 SF, Centipede Sod, Installed On Level Ground	1,386.13	
32 92 23 00-0032 MSF >8,000 SF, Centipede Sod, Installed On Level Ground	1,196.67	
32 92 23 00-0033 MSF Up To 1,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	2,342.18	
32 92 23 00-0034 MSF >1,000 To 4,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,942.88	
32 92 23 00-0035 MSF >4,000 To 8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,599.31	
32 92 23 00-0036 MSF >8,000 SF, Centipede Sod, Installed On Sloped (>1:6) Ground With Stakes	1,377.96	
32 92 23 00-0037 Kentucky Blue Grass Sod (32 92 23)		
32 92 23 00-0038 MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,887.10	
32 92 23 00-0039 MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,564.47	
32 92 23 00-0040 MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,328.31	
32 92 23 00-0041 MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,150.41	
32 92 23 00-0042 MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	2,249.67	
32 92 23 00-0043 MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,873.49	
32 92 23 00-0044 MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,541.49	
32 92 23 00-0045 MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	1,331.70	
32 92 23 00-0046 Ballfield Mix 2A Sod 10% Bermuda Shorts, 10% Barclay, 80% Turfstar (32 92 23)		
32 92 23 00-0047 MSF Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,748.33	
32 92 23 00-0048 MSF >1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,460.40	
32 92 23 00-0049 MSF >4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,241.58	
32 92 23 00-0050 MSF >8,000 SF, Ballfield Mix 2A Sod, Installed On Level Ground	1,081.03	
32 92 23 00-0051 MSF Up To 1,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	2,110.90	
32 92 23 00-0052 MSF >1,000 To 4,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,769.42	
32 92 23 00-0053 MSF >4,000 To 8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,454.76	
32 92 23 00-0054 MSF >8,000 SF, Ballfield Mix 2A Sod, Installed On Sloped (>1:6) Ground With Stakes	1,262.32	
32 92 23 00-0055 GN-1 Sod (32 92 23)		
32 92 23 00-0056 MSF Up To 1,000 SF, GN-1 Sod, Installed On Level Ground	2,228.69	
32 92 23 00-0057 MSF >1,000 To 4,000 SF, GN-1 Sod, Installed On Level Ground	1,820.67	
32 92 23 00-0058 MSF >4,000 To 8,000 SF, GN-1 Sod, Installed On Level Ground	1,541.80	
32 92 23 00-0059 MSF >8,000 SF, GN-1 Sod, Installed On Level Ground	1,321.21	
32 92 23 00-0060 MSF Up To 1,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,591.26	
32 92 23 00-0061 MSF >1,000 To 4,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	2,129.69	
32 92 23 00-0062 MSF >4,000 To 8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,754.98	
32 92 23 00-0063 MSF >8,000 SF, GN-1 Sod, Installed On Sloped (>1:6) Ground With Stakes	1,502.50	
32 92 23 00-0064 Tifgreen Bermuda Sod (32 92 23)		
32 92 23 00-0065 MSF Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	2,333.66	
32 92 23 00-0066 MSF >1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,899.39	
32 92 23 00-0067 MSF >4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,607.41	
32 92 23 00-0068 MSF >8,000 SF, Tifgreen Bermuda Sod, Installed On Level Ground	1,373.69	
32 92 23 00-0069 MSF Up To 1,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	2,696.23	
32 92 23 00-0070 MSF >1,000 To 4,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	2,208.41	
32 92 23 00-0071 MSF >4,000 To 8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,820.59	
32 92 23 00-0072 MSF >8,000 SF, Tifgreen Bermuda Sod, Installed On Sloped (>1:6) Ground With Stakes	1,554.98	
32 93 Plants (32 90)		
32 93 13 Ground Covers (32 93)		
Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.		
32 93 13 00-0001 Ornamental Grasses (32 93 13)		
32 93 13 00-0002 EA 1 Gallon, Cortaderia selloana - Pampas Grass	36.60	
32 93 13 00-0003 EA 2 Gallon, Cortaderia selloana - Pampas Grass	67.65	
32 93 13 00-0004 EA 3 Gallon, Cortaderia selloana - Pampas Grass	122.95	
32 93 13 00-0005 EA 5 Gallon, Cortaderia selloana - Pampas Grass	223.77	
32 93 13 00-0006 EA 1 Quart, Imperata cylindrica - Japanese Blood Grass	28.01	
32 93 13 00-0007 EA 1 Gallon, Imperata cylindrica - Japanese Blood Grass	37.25	
32 93 13 00-0008 EA 2 Gallon, Imperata cylindrica - Japanese Blood Grass	39.87	
32 93 13 00-0009 EA 1 Quart, Koeleria glauca - Blue Hair Grass	27.94	
32 93 13 00-0010 EA 1 Gallon, Koeleria glauca - Blue Hair Grass	37.25	
32 93 13 00-0011 EA 3 Gallon, Koeleria glauca - Blue Hair Grass	90.12	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 93 13 00-0012	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	35.36		
32 93 13 00-0013	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	45.83		
32 93 13 00-0014	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	87.62		
32 93 13 00-0015	EA	1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	32.82		
32 93 13 00-0016	EA	3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	51.60		
32 93 13 00-0017	EA	5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	88.31		
32 93 13 00-0018	EA	1 Quart, Pennisetum setaceum - Fountain Grass.....	30.55		
32 93 13 00-0019	EA	1 Gallon, Pennisetum setaceum - Fountain Grass.....	31.59		
32 93 13 00-0020	EA	3 Gallon, Pennisetum setaceum - Fountain Grass.....	69.69		
32 93 13 00-0021	EA	1 Gallon, Saccharum ravennae - Ravenna Grass.....	96.74		
32 93 13 00-0022	EA	3 Gallon, Saccharum ravennae - Ravenna Grass.....	108.67		
32 93 13 00-0023	EA	7 Gallon, Saccharum ravennae - Ravenna Grass.....	179.28		
32 93 13 00-0024	EA	1 Gallon, Spartina pectinata - Variegated Cord Grass.....	52.53		
32 93 13 00-0025	EA	2 Gallon, Spartina pectinata - Variegated Cord Grass.....	78.62		
32 93 13 00-0026	EA	1 Quart, Stipa gigantea - Giant Feather Grass.....	40.10		
32 93 13 00-0027	EA	1 Gallon, Stipa gigantea - Giant Feather Grass.....	55.87		
32 93 13 00-0028 Ground Covers (32 93 13)					
32 93 13 00-0029	EA	1 Gallon Agave Attenuata - Century Plant.....	12.72		
32 93 13 00-0030	EA	5 Gallon Agave Attenuata - Century Plant.....	34.30		
32 93 13 00-0031	EA	15 Gallon Agave Attenuata - Century Plant.....	113.42		
32 93 13 00-0032	EA	1 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	10.85		
32 93 13 00-0033	EA	5 Gallon Ceanothus 'Carmel Creeper' - Wild Lilac.....	30.21		
32 93 13 00-0034	EA	1 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	10.85		
32 93 13 00-0035	EA	5 Gallon Ceanothus 'Yankee Point' - Wild Lilac.....	28.22		
32 93 13 00-0036	EA	1 Gallon Dietes Vegata - Fortnight Lily.....	9.52		
32 93 13 00-0037	EA	5 Gallon Dietes Vegata - Fortnight Lily.....	23.46		
32 93 13 00-0038	EA	1 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	17.68		
32 93 13 00-0039	EA	5 Gallon Juncus Patens 'Elk Blue' - California Gray Rush.....	46.45		
32 93 13 00-0040	EA	4" Pot Miscanthus 'Morning Light' - NCN.....	13.26		
32 93 13 00-0041	EA	20 Count Flat Miscanthus 'Morning Light' - NCN.....	195.54		
32 93 13 00-0042	EA	1 Gallon Nassella Tenuissima - Mexican Feather Grass.....	17.68		
32 93 13 00-0043	EA	1 Gallon Trachelospermum Jasminoides - Star Jasmine.....	9.61		
32 93 13 00-0044	EA	5 Gallon Trachelospermum Jasminoides - Star Jasmine.....	24.09		
32 93 13 00-0045	EA	1 Gallon Westringia Fruticosa - Coast Rosemary.....	9.52		
32 93 13 00-0046	EA	5 Gallon Westringia Fruticosa - Coast Rosemary.....	23.46		
32 93 13 00-0047	EA	15 Gallon Westringia Fruticosa - Coast Rosemary.....	96.27		
32 93 13 00-0048	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge.....	46.99		
32 93 13 00-0049	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge.....	61.18		
32 93 13 00-0050	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....	77.44		
32 93 13 00-0051	EA	1 Quart Waldsteinia ternata - Barren Strawberry.....	13.30		
32 93 13 00-0052	EA	1 Gallon Waldsteinia ternata - Barren Strawberry.....	31.92		
32 93 13 00-0053	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	43.44		
32 93 13 00-0054	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	82.45		
32 93 13 00-0055	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster.....	145.41		
32 93 13 00-0056	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....	14.88		
32 93 13 00-0057	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	27.49		
32 93 13 00-0058	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine.....	96.64		
32 93 13 00-0059	EA	1 Gallon Juniperus horizontalis 'Wilton' - Blue Rug Juniper.....	36.08		
32 93 13 00-0060	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy.....	17.73		
32 93 13 00-0061	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy.....	40.43		
32 93 13 00-0062	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy.....	110.65		
32 93 13 00-0063	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea.....	46.50		
32 93 13 00-0064	EA	1 Quart Iberis sempervirens - Candytuft.....	13.30		
32 93 13 00-0065	EA	1 Gallon Iberis sempervirens - Candytuft.....	31.92		
32 93 13 00-0066	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine.....	38.30		
32 93 13 00-0067	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine.....	138.31		
32 93 13 00-0068	EA	3" Pot Ajuga reptans - Carpet Bugle.....	7.98		
32 93 13 00-0069	EA	1 Quart Ajuga reptans - Carpet Bugle.....	13.30		
32 93 13 00-0070	EA	1 Gallon Ajuga reptans - Carpet Bugle.....	31.92		
32 93 13 00-0071	EA	24 Plant Flat Ajuga reptans - Carpet Bugle.....	137.42		
32 93 13 00-0072	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	31.92		
32 93 13 00-0073	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	138.31		
32 93 13 00-0074	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	41.67		
32 93 13 00-0075	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	92.21		
32 93 13 00-0076	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	138.31		
32 93 13 00-0077	EA	1 Gallon Ranunculaceae - Clematis Varieties.....	45.81		
32 93 13 00-0078	EA	2 Gallon Ranunculaceae - Clematis Varieties.....	84.73		
32 93 13 00-0079	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	57.63		
32 93 13 00-0080	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	108.17		
32 93 13 00-0081	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea.....	177.32		
32 93 13 00-0082	EA	4" Pot Lantana camera - Common Lantana.....	7.98		
32 93 13 00-0083	EA	1 Gallon Lantana camera - Common Lantana.....	23.05		
32 93 13 00-0084	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	27.49		
32 93 13 00-0085	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia.....	90.43		
32 93 13 00-0086	EA	2 Quart Lysimachia nummularia - Creeping Jenny.....	13.30		
32 93 13 00-0087	EA	1 Gallon Lysimachia nummularia - Creeping Jenny.....	25.71		
32 93 13 00-0088	EA	2 Quart Liriope spicata - Creeping Lilytuft.....	23.05		
32 93 13 00-0089	EA	1 Gallon Liriope spicata - Creeping Lilytuft.....	41.67		
32 93 13 00-0090	EA	5 Gallon Liriope spicata - Creeping Lilytuft.....	87.78		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 13 00-0091	EA	Bare Root Liriope spicata - Creeping Liriope	5.81	
32 93 13 00-0092	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	7.98	
32 93 13 00-0093	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary	31.92	
32 93 13 00-0094	EA	2-1/4" Pot Securigera varia - Crown Vetch	5.32	
32 93 13 00-0095	EA	50 Plant Flat Securigera varia - Crown Vetch	179.98	
32 93 13 00-0096	EA	1 Quart Senecio cineraria - Dusty Miller	13.30	
32 93 13 00-0097	EA	1 Gallon Senecio cineraria - Dusty Miller	31.92	
32 93 13 00-0098	EA	2 Gallon Aristolochia macrophylla - Dutchman's Pipe	110.83	
32 93 13 00-0099	EA	5 Gallon Aristolochia macrophylla - Dutchman's Pipe	203.03	
32 93 13 00-0100	EA	1 Gallon Ilex cornuta - Dwarf Holly	24.08	
32 93 13 00-0101	EA	3 Gallon Ilex cornuta - Dwarf Holly	51.60	
32 93 13 00-0102	EA	3 Gallon Rhamphilepis umbellata 'Minor' - Dwarf Indian Hawthorn	51.60	
32 93 13 00-0103	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant	17.20	
32 93 13 00-0104	EA	2" To 3" Pot Hedera helix - English Ivy	7.98	
32 93 13 00-0105	EA	12" To 15" Runners Hedera helix - English Ivy	13.30	
32 93 13 00-0106	EA	1 Gallon Hedera helix - English Ivy	31.92	
32 93 13 00-0107	EA	50 Plant Flat Hedera helix - English Ivy	184.42	
32 93 13 00-0108	EA	4" Pot Lavandula angustifolia - English Lavender	11.53	
32 93 13 00-0109	EA	1 Quart Lavandula angustifolia - English Lavender	22.17	
32 93 13 00-0110	EA	1 Gallon Lavandula angustifolia - English Lavender	36.35	
32 93 13 00-0111	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	34.58	
32 93 13 00-0112	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	69.16	
32 93 13 00-0113	EA	1 Quart Arundo donax - Giant Reed	42.56	
32 93 13 00-0114	EA	1 Gallon Arundo donax - Giant Reed	61.18	
32 93 13 00-0115	EA	1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	36.35	
32 93 13 00-0116	EA	2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle	69.16	
32 93 13 00-0117	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	46.99	
32 93 13 00-0118	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	70.93	
32 93 13 00-0119	EA	3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	7.98	
32 93 13 00-0120	EA	1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	36.35	
32 93 13 00-0121	EA	2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle	69.16	
32 93 13 00-0122	EA	1 Gallon Hardenbergia violacea - Happy Wanderer	31.92	
32 93 13 00-0123	EA	5 Gallon Hardenbergia violacea - Happy Wanderer	106.39	
32 93 13 00-0124	EA	3 Gallon Hibiscus, Assorted Colors	41.57	
32 93 13 00-0125	EA	1 Gallon Acorus gramineus - Japanese Sweet Flag	33.25	
32 93 13 00-0126	EA	1 Gallon Jasminum volubile - Wax Jasmine	16.75	
32 93 13 00-0127	EA	1 Gallon Jasminum volubile - Wax Jasmine	41.57	
32 93 13 00-0128	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	20.89	
32 93 13 00-0129	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	46.50	
32 93 13 00-0130	EA	1 Gallon Cissus antarctica - Kangaroo Vine	25.71	
32 93 13 00-0131	EA	5 Gallon Cissus antarctica - Kangaroo Vine	80.68	
32 93 13 00-0132	EA	1 Quart Stachys byzantina - Lamb's Ear	13.30	
32 93 13 00-0133	EA	1 Quart Stachys byzantina - Lamb's Ear	31.92	
32 93 13 00-0134	EA	1 Gallon Lantana spp. Various Colors	18.82	
32 93 13 00-0135	EA	1 Gallon Lantana sellowiana - Trailing Lantana	12.38	
32 93 13 00-0136	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	25.71	
32 93 13 00-0137	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	92.21	
32 93 13 00-0138	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	18.82	
32 93 13 00-0139	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	23.74	
32 93 13 00-0140	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	37.96	
32 93 13 00-0141	EA	1 Quart Moss Phlox, Creeping Phlox	13.30	
32 93 13 00-0142	EA	1 Gallon Moss Phlox, Creeping Phlox	31.92	
32 93 13 00-0143	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern	16.75	
32 93 13 00-0144	EA	4" Pot Ophiopogon Japonicus - Mondo grass	7.98	
32 93 13 00-0145	EA	1 Gallon Ophiopogon Japonicus - Mondo grass	31.92	
32 93 13 00-0146	EA	5 Gallon Ophiopogon Japonicus - Mondo grass	73.59	
32 93 13 00-0147	EA	2' To 3' High Oregon Holly-Grape	36.85	
32 93 13 00-0148	EA	1 Gallon Pachysandra terminalis - Pachysandra	48.00	
32 93 13 00-0149	EA	2-1/4" Pot Vinca minor - Periwinkle	4.43	
32 93 13 00-0150	EA	4" Pot Vinca minor - Periwinkle	13.30	
32 93 13 00-0151	EA	Bare Root Vinca minor - Periwinkle	4.43	
32 93 13 00-0152	EA	1 Quart Nepeta mussinii - Persian Catmint	13.30	
32 93 13 00-0153	EA	1 Gallon Nepeta mussinii - Persian Catmint	27.49	
32 93 13 00-0154	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma	22.17	
32 93 13 00-0155	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma	80.68	
32 93 13 00-0156	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper	36.35	
32 93 13 00-0157	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper	78.02	
32 93 13 00-0158	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper	115.26	
32 93 13 00-0159	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	31.66	
32 93 13 00-0160	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	82.03	
32 93 13 00-0161	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	137.43	
32 93 13 00-0162	EA	1 Gallon Tradescantia spathacea - Rhoen Discolor "Dwarf"	16.75	
32 93 13 00-0163	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	18.62	
32 93 13 00-0164	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	33.25	
32 93 13 00-0165	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	51.87	
32 93 13 00-0166	EA	1 Gallon Hymenocallis latifolia - Spider Lily	20.64	
32 93 13 00-0167	EA	3 Gallon Hymenocallis latifolia - Spider Lily	55.04	
32 93 13 00-0168	EA	1 Quart Hypericum perforatum - St. John's Wort	13.30	
32 93 13 00-0169	EA	1 Gallon Hypericum perforatum - St. John's Wort	31.92	
32 93 13 00-0170	EA	5 Gallon Hypericum perforatum - St. John's Wort	82.45	
32 93 13 00-0171	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum	112.21	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0172	EA	1	Gallon Campsis radicans - Trumpet Creeper	48.76	
32 93 13 00-0173	EA	2	Gallon Campsis radicans - Trumpet Creeper	73.59	
32 93 13 00-0174	EA	5	Gallon Campsis radicans - Trumpet Creeper	177.32	
32 93 13 00-0175	EA	2-1/4"	Pot Vinca major - Variegated Greater Periwinkle	4.43	
32 93 13 00-0176	EA	4"	Pot Vinca major - Variegated Greater Periwinkle	13.30	
32 93 13 00-0177	EA		Bare Root Vinca major - Variegated Greater Periwinkle	4.43	
32 93 13 00-0178	EA	1	Quart Carex hachijoensis - Variegated Japanese Sedge	23.94	
32 93 13 00-0179	EA	1	Gallon Carex hachijoensis - Variegated Japanese Sedge	33.25	
32 93 13 00-0180	EA	2	Gallon Carex hachijoensis - Variegated Japanese Sedge	51.87	
32 93 13 00-0181	EA	1	Gallon Liriope muscari 'Variegata' - Variegated Lilyturf	36.35	
32 93 13 00-0182	EA	2	Quart Verbena peruviana "St. Paul" - St. Paul Verbena	16.85	
32 93 13 00-0183	EA	1	Gallon Verbena peruviana "St. Paul" - St. Paul Verbena	25.71	
32 93 13 00-0184	EA	48	Plant Flat Vinca minor - Lesser Periwinkle	158.03	
32 93 13 00-0185	EA	3"	Pot Parthenocissus quinquefolia - Virginia Creeper	7.98	
32 93 13 00-0186	EA	1	Gallon Parthenocissus quinquefolia - Virginia Creeper	41.67	
32 93 13 00-0187	EA	1	Gallon Jasminum polyanthum - Winter Jasmine	31.92	
32 93 13 00-0188	EA	2	Gallon Jasminum polyanthum - Winter Jasmine	63.84	
32 93 13 00-0189	EA	5	Gallon Jasminum polyanthum - Winter Jasmine	110.83	
32 93 13 00-0190	EA	1	Gallon Cistaceae - Wrinkleleaf Rock Rose	25.71	
32 93 13 00-0191	EA	5	Gallon Cistaceae - Wrinkleleaf Rock Rose	87.78	
32 93 13 00-0192	EA		Flat Hedera canariensis - Algerian Ivy	25.84	
32 93 13 00-0193	EA	2-1/2"	Pot Hedera canariensis - Algerian Ivy	6.82	
32 93 13 00-0194	EA		Flat Gazania 'Copper King'	21.19	
32 93 13 00-0195	EA	1	Gallon Gazania 'Copper King'	7.24	
32 93 13 00-0196	EA		Flat Myoporum parvifolium - Myoporum	25.84	
32 93 13 00-0197	EA	1	Gallon Myoporum parvifolium - Myoporum	7.24	
32 93 13 00-0198	EA	5	Gallon Myoporum parvifolium - Myoporum	20.68	
32 93 13 00-0199	EA	1	Gallon Lantana montevidensis - Purple Lantana	7.24	
32 93 13 00-0200	EA	5	Gallon Lantana montevidensis - Purple Lantana	20.68	
32 93 13 00-0201	EA		Flat Carpobrotus - Ice Plant	19.64	
32 93 13 00-0202	EA	1	Gallon Carpobrotus - Ice Plant	8.27	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2	Quart Assorted Daylilies	25.71	
32 93 23 00-0003	EA	1	Gallon Assorted Daylilies	36.35	
32 93 23 00-0004	EA	2	Gallon Assorted Daylilies	60.29	
32 93 23 00-0005	EA	1	Quart Azure Penstemon	13.30	
32 93 23 00-0006	EA	1	Gallon Azure Penstemon	33.25	
32 93 23 00-0007	EA	1	Quart Balloon Flower	13.30	
32 93 23 00-0008	EA	1	Gallon Balloon Flower	33.25	
32 93 23 00-0009	EA	1	Quart Black-eyed Susan	13.30	
32 93 23 00-0010	EA	1	Gallon Black-eyed Susan	33.25	
32 93 23 00-0011	EA	2	Gallon Black-eyed Susan	43.00	
32 93 23 00-0012	EA	1	Quart Blackberry Lily	13.30	
32 93 23 00-0013	EA	1	Gallon Blackberry Lily	33.25	
32 93 23 00-0014	EA	1	Quart Blank Flower	13.30	
32 93 23 00-0015	EA	1	Gallon Blank Flower	30.59	
32 93 23 00-0016	EA	2	Gallon Blank Flower	43.00	
32 93 23 00-0017	EA	1	Quart Blazing Star, Gayfeather	13.30	
32 93 23 00-0018	EA	1	Gallon Blazing Star, Gayfeather	33.25	
32 93 23 00-0019	EA	1	Quart Bloodred Geranium	22.61	
32 93 23 00-0020	EA	1	Gallon Bloodred Geranium	38.13	
32 93 23 00-0021	EA	1	Quart Blue Plumbago	13.30	
32 93 23 00-0022	EA	1	Gallon Blue Plumbago	33.25	
32 93 23 00-0023	EA	1	Quart Blue Star	23.94	
32 93 23 00-0024	EA	1	Gallon Blue Star	38.13	
32 93 23 00-0025	EA	1	Quart Cardinal Flower	13.30	
32 93 23 00-0026	EA	1	Gallon Cardinal Flower	33.25	
32 93 23 00-0027	EA	4"	Pot Columbine	7.98	
32 93 23 00-0028	EA	1	Quart Columbine	13.30	
32 93 23 00-0029	EA	1	Gallon Columbine	33.25	
32 93 23 00-0030	EA	1	Quart Common Globeflower	13.30	
32 93 23 00-0031	EA	1	Gallon Common Globeflower	33.25	
32 93 23 00-0032	EA	1	Quart Cottage Pink, Scotch Pink	13.30	
32 93 23 00-0033	EA	1	Quart Cottage Pink, Scotch Pink	33.25	
32 93 23 00-0034	EA	1	Gallon Astilbe 'Deutschland'	47.88	
32 93 23 00-0035	EA	1	Quart Diploid	16.85	
32 93 23 00-0036	EA	1	Gallon Diploid	38.13	
32 93 23 00-0037	EA	3	Gallon Diploid	65.61	
32 93 23 00-0038	EA	4"	Pot Dune Sunflower	18.98	
32 93 23 00-0039	EA	1	Quart Evans Begonia	23.94	
32 93 23 00-0040	EA	1	Gallon Evans Begonia	43.00	
32 93 23 00-0041	EA	1	Quart False Dragonhead	13.30	
32 93 23 00-0042	EA	1	Gallon False Dragonhead	33.25	
32 93 23 00-0043	EA	1	Quart False Spirea	13.30	
32 93 23 00-0044	EA	1	Gallon False Spirea	43.00	
32 93 23 00-0045	EA	3	Gallon False Spirea	59.40	
32 93 23 00-0046	EA	2	Quart False Sunflower	21.28	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 23 00-0047	EA	1 Gallon False Sunflower	33.25
32 93 23 00-0048	EA	2 Gallon False Sunflower	43.00
32 93 23 00-0049	EA	1 Gallon Foxglove	30.59
32 93 23 00-0050	EA	2 Gallon Foxglove	43.00
32 93 23 00-0051	EA	3 Gallon Foxglove	62.06
32 93 23 00-0052	EA	1 Gallon Francee Hostas	53.84
32 93 23 00-0053	EA	1 Quart Garden Phlox	13.30
32 93 23 00-0054	EA	1 Gallon Garden Phlox	33.25
32 93 23 00-0055	EA	2 Quart Golden Groundsel	28.37
32 93 23 00-0056	EA	2 Gallon Golden Groundsel	57.19
32 93 23 00-0057	EA	1 Quart Golden Star	13.30
32 93 23 00-0058	EA	1 Gallon Golden Star	33.25
32 93 23 00-0059	EA	1 Quart Goldenrod	13.30
32 93 23 00-0060	EA	1 Gallon Goldenrod	33.25
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylilies	61.92
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy	7.98
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy	13.30
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy	33.25
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum	11.53
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum	19.07
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum	30.59
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony	47.44
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony	75.81
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony	99.75
32 93 23 00-0071	EA	4" Pot Japanese Anemone	7.98
32 93 23 00-0072	EA	1 Quart Japanese Anemone	23.94
32 93 23 00-0073	EA	2 Gallon Japanese Anemone	43.00
32 93 23 00-0074	EA	2" Pot Japanese Spurge	4.73
32 93 23 00-0075	EA	6" Pot Japanese Spurge	7.09
32 93 23 00-0076	EA	1 Gallon Japanese Spurge	30.54
32 93 23 00-0077	EA	1 Quart Oriental Poppy	19.07
32 93 23 00-0078	EA	1 Gallon Oriental Poppy	38.13
32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis	158.03
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris	26.16
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris	49.66
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells	50.34
32 93 23 00-0083	EA	4" Pot Perennial Salvia	7.98
32 93 23 00-0084	EA	1 Quart Perennial Salvia	13.30
32 93 23 00-0085	EA	1 Gallon Perennial Salvia	33.25
32 93 23 00-0086	EA	1 Quart Pincushion Flower	13.30
32 93 23 00-0087	EA	1 Gallon Pincushion Flower	33.25
32 93 23 00-0088	EA	2 Quart Plantain Lily	25.71
32 93 23 00-0089	EA	1 Gallon Plantain Lily	36.35
32 93 23 00-0090	EA	2 Gallon Plantain Lily	60.29
32 93 23 00-0091	EA	3 Gallon Plantain Lily	113.94
32 93 23 00-0092	EA	2 Quart Purple Coneflower	23.94
32 93 23 00-0093	EA	1 Gallon Purple Coneflower	33.25
32 93 23 00-0094	EA	2 Gallon Purple Coneflower	43.00
32 93 23 00-0095	EA	1 Quart Purple Loosestrife	13.30
32 93 23 00-0096	EA	1 Gallon Purple Loosestrife	33.25
32 93 23 00-0097	EA	1 Quart Rose Mallow	26.16
32 93 23 00-0098	EA	2 Gallon Rose Mallow	47.44
32 93 23 00-0099	EA	3 Gallon Rose Mallow	81.13
32 93 23 00-0100	EA	1 Gallon Autumn Joy Sedum	50.69
32 93 23 00-0101	EA	1 Quart Siberian Iris	22.61
32 93 23 00-0102	EA	2 Gallon Siberian Iris	43.00
32 93 23 00-0103	EA	3 Gallon Siberian Iris	59.40
32 93 23 00-0104	EA	1 Quart Speedwell	13.30
32 93 23 00-0105	EA	1 Gallon Speedwell	33.25
32 93 23 00-0106	EA	1 Quart Tetraploid	33.25
32 93 23 00-0107	EA	1 Gallon Tetraploid	62.06
32 93 23 00-0108	EA	3 Gallon Tetraploid	84.68
32 93 23 00-0109	EA	1 Quart Threadleaf Coreopsis	13.30
32 93 23 00-0110	EA	1 Gallon Threadleaf Coreopsis	33.25
32 93 23 00-0111	EA	1 Quart Torch Lily	13.30
32 93 23 00-0112	EA	1 Quart Bluebeard	23.94
32 93 23 00-0113	EA	1 Gallon Bluebeard	35.47
32 93 23 00-0114	EA	2 Gallon Bluebeard	51.87

32 93 23 00-0115 Annuals (32 93 23)

32 93 23 00-0116	EA	2-1/2" Pot Annual Flowers	6.17
32 93 23 00-0117	EA	3" Pot Annual Flowers	8.35
32 93 23 00-0118	EA	4" Pot Annual Flowers	17.84
32 93 23 00-0119	EA	5-1/2" Pot Annual Flowers	23.73
32 93 23 00-0120	EA	6" Pot Annual Flowers	46.98
32 93 23 00-0121	EA	8" Pot Annual Flowers	78.30
32 93 23 00-0122	EA	36 Plant Flat Annual Flowers	102.50
32 93 23 00-0123	EA	48 Plant Flat Annual Flowers	116.27



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 93 23 00-0124

Bulbs (32 93 23)

32 93 23 00-0125	EA	Top Size Allium giganteum - Giant Ornamental Onion	21.46
32 93 23 00-0126	EA	Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	1.24
32 93 23 00-0127	EA	Top Size Crocus Hybrid	1.40
32 93 23 00-0128	EA	Top Size Eranthis hyemalis - Winter Aconite	1.82
32 93 23 00-0129	EA	Top Size Galanthus nivalis - Snowdrops	2.31
32 93 23 00-0130	EA	Top Size Iris reticulata cvs - Dutch Iris	0.91
32 93 23 00-0131	EA	Top Size Muscari armeniacum - Grape Hyacinth	1.07
32 93 23 00-0132	EA	Top Size Muscari latifolium - Grape Hyacinth	1.24
32 93 23 00-0133	EA	Narcissus 'Carlton' - Carlton Daffodil DNI	7.43
32 93 23 00-0134	EA	Narcissus 'Dutch Master' - Dutch Master Daffodil DNI	3.55
32 93 23 00-0135	EA	Narcissus 'February Gold' - February Gold Daffodil DNI	3.71
32 93 23 00-0136	EA	Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	3.71
32 93 23 00-0137	EA	Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	3.88
32 93 23 00-0138	EA	Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	4.13
32 93 23 00-0139	EA	Narcissus 'Pipit' - Pipit Daffodil DNI	3.88
32 93 23 00-0140	EA	Narcissus 'Salome' - Salome Daffodil DNI	3.63
32 93 23 00-0141	EA	Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	3.88
32 93 23 00-0142	EA	Narcissus 'Thalia' - Thalia Daffodil DNI	3.88
32 93 23 00-0143	EA	Top Size Scilla siberica - Siberian Squill	1.16
32 93 23 00-0144	EA	Top Size Tulip 'Angelique' - Angelique Tulip	3.30
32 93 23 00-0145	EA	Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	2.48
32 93 23 00-0146	EA	Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	3.30
32 93 23 00-0147	EA	Top Size Tulip 'Big Smile' - Big Smile Tulip	2.89
32 93 23 00-0148	EA	Top Size Tulip 'Black Parrot' - Black Parrot Tulip	4.13
32 93 23 00-0149	EA	Top Size Tulip 'Blue Heron' - Blue Heron Tulip	3.14
32 93 23 00-0150	EA	Top Size Tulip 'Cardinal' - Cardinal Tulip	2.72
32 93 23 00-0151	EA	Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	3.05
32 93 23 00-0152	EA	Top Size Tulip clusiana - Species Tulip	3.05
32 93 23 00-0153	EA	Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	3.05
32 93 23 00-0154	EA	Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	2.48
32 93 23 00-0155	EA	Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	2.39
32 93 23 00-0156	EA	Top Size Tulip 'Halcro' - Halcro Tulip	2.48
32 93 23 00-0157	EA	Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip	4.13
32 93 23 00-0158	EA	Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	2.48
32 93 23 00-0159	EA	Top Size Tulip 'Passionale' - Passionale Tulip	3.30
32 93 23 00-0160	EA	Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	3.55
32 93 23 00-0161	EA	Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	3.71
32 93 23 00-0162	EA	Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	2.97
32 93 23 00-0163	EA	Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	2.81
32 93 23 00-0164	EA	Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	3.05
32 93 23 00-0165	EA	Top Size Tulip 'Princeps' - Princeps Tulip	3.05
32 93 23 00-0166	EA	Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	2.39
32 93 23 00-0167	EA	Top Size Tulip saxatilis - Species Tulip	1.65
32 93 23 00-0168	EA	Top Size Tulip 'Shirley' - Shirley Tulip	2.48
32 93 23 00-0169	EA	Top Size Tulip 'Spring Green' - Spring Green Tulip	3.22
32 93 23 00-0170	EA	Top Size Tulip 'White Emperor' - White Emperor Tulip	2.48

32 93 33

Shrubs (32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.

32 93 33 00-0001

Shrubs (32 93 33)

32 93 33 00-0002	EA	1 Gallon Abelia x grandiflora - Abelia	22.62
32 93 33 00-0003	EA	3 Gallon Abelia x grandiflora - Abelia	46.07
32 93 33 00-0004	EA	5 Gallon Abelia x grandiflora - Abelia	88.43
32 93 33 00-0005	EA	1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	9.61
32 93 33 00-0006	EA	5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	23.78
32 93 33 00-0007	EA	15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	94.38
32 93 33 00-0008	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	105.93
32 93 33 00-0009	EA	18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	154.82
32 93 33 00-0010	EA	24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	172.74
32 93 33 00-0011	EA	30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	218.37
32 93 33 00-0012	EA	36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	242.82
32 93 33 00-0013	EA	18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	48.89
32 93 33 00-0014	EA	24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	65.19
32 93 33 00-0015	EA	30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	81.48
32 93 33 00-0016	EA	1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	9.61
32 93 33 00-0017	EA	5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	23.78
32 93 33 00-0018	EA	36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	44.47
32 93 33 00-0019	EA	42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	52.31
32 93 33 00-0020	EA	48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	62.78
32 93 33 00-0021	EA	60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	73.24
32 93 33 00-0022	EA	72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	88.93
32 93 33 00-0023	EA	36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	43.16
32 93 33 00-0024	EA	42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	45.77
32 93 33 00-0025	EA	48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	48.39
32 93 33 00-0026	EA	60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	54.93
32 93 33 00-0027	EA	36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	43.81
32 93 33 00-0028	EA	42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	46.43

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0029	EA	48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	49.04	
32 93 33 00-0030	EA	60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	51.66	
32 93 33 00-0031	EA	1 Gallon Aspidistra elatior - Cast Iron Plant	8.99	
32 93 33 00-0032	EA	2 Gallon Aspidistra elatior - Cast Iron Plant	20.79	
32 93 33 00-0033	EA	1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	10.54	
32 93 33 00-0034	EA	3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	23.18	
32 93 33 00-0035	EA	5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	31.33	
32 93 33 00-0036	EA	1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	9.61	
32 93 33 00-0037	EA	5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	23.78	
32 93 33 00-0038	EA	1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	9.61	
32 93 33 00-0039	EA	5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	23.78	
32 93 33 00-0040	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	11.24	
32 93 33 00-0041	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	16.44	
32 93 33 00-0042	EA	15" To 18" Berberis - Northern Bayberry	46.92	
32 93 33 00-0043	EA	2' To 2-1/2' Berberis - Northern Bayberry	59.57	
32 93 33 00-0044	EA	2-1/2' To 3' Berberis - Northern Bayberry	83.46	
32 93 33 00-0045	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry	10.85	
32 93 33 00-0046	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry	26.15	
32 93 33 00-0047	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	50.16	
32 93 33 00-0048	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	64.21	
32 93 33 00-0049	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	82.05	
32 93 33 00-0050	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	13.49	
32 93 33 00-0051	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	26.55	
32 93 33 00-0052	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	32.45	
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberry	12.79	
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberry	36.11	
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberry	50.16	
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberry	77.41	
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood	14.61	
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood	39.20	
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood	41.73	
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood	53.67	
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood	71.51	
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood	107.34	
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood	149.07	
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood	41.73	
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood	53.67	
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood	71.51	
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood	107.34	
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars	27.46	
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars	45.77	
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood	120.32	
32 93 33 00-0071	EA	18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	65.39	
32 93 33 00-0072	EA	24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	88.93	
32 93 33 00-0073	EA	30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood	120.32	
32 93 33 00-0074	EA	1 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	8.36	
32 93 33 00-0075	EA	5 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	25.73	
32 93 33 00-0076	EA	15 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush	83.62	
32 93 33 00-0077	EA	5 Gallon Calycanthus floridus - Common Sweetshrub	43.16	
32 93 33 00-0078	EA	30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub	39.23	
32 93 33 00-0079	EA	36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub	52.31	
32 93 33 00-0080	EA	1 Gallon Camellia "Sasanqua" - Camellia	16.76	
32 93 33 00-0081	EA	3 Gallon Camellia "Sasanqua" - Camellia	35.75	
32 93 33 00-0082	EA	5 Gallon Camellia "Sasanqua" - Camellia	59.43	
32 93 33 00-0083	EA	7 Gallon Camellia "Sasanqua" - Camellia	88.50	
32 93 33 00-0084	EA	15 Gallon Camellia "Sasanqua" - Camellia	229.62	
32 93 33 00-0085	EA	1 Gallon Camellia japonica - Camellia	16.76	
32 93 33 00-0086	EA	3 Gallon Camellia japonica - Camellia	35.75	
32 93 33 00-0087	EA	5 Gallon Camellia japonica - Camellia	59.43	
32 93 33 00-0088	EA	5 Gallon Ceanothus americanus - New Jersey Tea	43.16	
32 93 33 00-0089	EA	1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	10.85	
32 93 33 00-0090	EA	5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus	28.22	
32 93 33 00-0091	EA	5 Gallon Celastrus scandens - Bittersweet	43.16	
32 93 33 00-0092	EA	36" Balled and Burlapped, Celastrus scandens - Bittersweet	36.62	
32 93 33 00-0093	EA	5 Gallon Cephalanthus occidentalis - Buttonbush	43.16	
32 93 33 00-0094	EA	24" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	32.70	
32 93 33 00-0095	EA	30" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	36.62	
32 93 33 00-0096	EA	36" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush	39.23	
32 93 33 00-0097	EA	18" To 24" Chaenomeles speciosa - Flowering Quince	37.65	
32 93 33 00-0098	EA	2' To 3' Chaenomeles speciosa - Flowering Quince	50.16	
32 93 33 00-0099	EA	3' To 4' Chaenomeles speciosa - Flowering Quince	77.41	
32 93 33 00-0100	EA	1 Gallon Cistus Hybridus - White Rockrose	9.61	
32 93 33 00-0101	EA	5 Gallon Cistus Hybridus - White Rockrose	23.78	
32 93 33 00-0102	EA	3 Gallon Clethra alnifolia & cvs - Summersweet Clethra	41.85	
32 93 33 00-0103	EA	18" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	45.12	
32 93 33 00-0104	EA	24" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	50.35	
32 93 33 00-0105	EA	30" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	52.97	
32 93 33 00-0106	EA	36" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra	62.12	
32 93 33 00-0107	EA	1 Gallon Coleonema Pulchellum - Confetti Bush	9.61	
32 93 33 00-0108	EA	5 Gallon Coleonema Pulchellum - Confetti Bush	23.78	
32 93 33 00-0109	EA	15 Gallon Coleonema Pulchellum - Confetti Bush	111.33	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 93 33 00-0110	EA	2' To 3' Cornus mas - Cornelian Cherry	59.57	
32 93 33 00-0111	EA	3' To 4' Cornus mas - Cornelian Cherry	74.46	
32 93 33 00-0112	EA	4' To 5' Cornus mas - Cornelian Cherry	95.40	
32 93 33 00-0113	EA	5' To 6' Cornus mas - Cornelian Cherry	131.08	
32 93 33 00-0114	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood	39.23	
32 93 33 00-0115	EA	36" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	27.46	
32 93 33 00-0116	EA	48" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	31.39	
32 93 33 00-0117	EA	60" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	39.23	
32 93 33 00-0118	EA	72" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood	47.08	
32 93 33 00-0119	EA	36" Balled and Burlapped, Cornus amomum - Silky Dogwood	39.23	
32 93 33 00-0120	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood	43.16	
32 93 33 00-0121	EA	5 Gallon Cornus racemosa - Gray Dogwood	43.16	
32 93 33 00-0122	EA	36" Balled and Burlapped, Cornus racemosa - Gray Dogwood	39.23	
32 93 33 00-0123	EA	48" Balled and Burlapped, Cornus racemosa - Gray Dogwood	45.77	
32 93 33 00-0124	EA	60" Balled and Burlapped, Cornus racemosa - Gray Dogwood	49.70	
32 93 33 00-0125	EA	72" Balled and Burlapped, Cornus racemosa - Gray Dogwood	60.16	
32 93 33 00-0126	EA	36" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	42.50	
32 93 33 00-0127	EA	48" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	47.74	
32 93 33 00-0128	EA	60" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood	54.27	
32 93 33 00-0129	EA	24" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	34.00	
32 93 33 00-0130	EA	30" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	39.23	
32 93 33 00-0131	EA	36" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	41.85	
32 93 33 00-0132	EA	48" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	45.77	
32 93 33 00-0133	EA	60" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood	51.01	
32 93 33 00-0134	EA	5 Gallon Corylus americana - American Filbert	40.54	
32 93 33 00-0135	EA	30" Balled and Burlapped, Corylus americana - American Filbert	45.77	
32 93 33 00-0136	EA	36" Balled and Burlapped, Corylus americana - American Filbert	49.04	
32 93 33 00-0137	EA	48" Balled and Burlapped, Corylus americana - American Filbert	52.97	
32 93 33 00-0138	EA	24" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	130.78	
32 93 33 00-0139	EA	30" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	170.02	
32 93 33 00-0140	EA	36" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	183.10	
32 93 33 00-0141	EA	42" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	235.41	
32 93 33 00-0142	EA	48" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	287.72	
32 93 33 00-0143	EA	60" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	326.96	
32 93 33 00-0144	EA	5' To 6' Cotinus coggygria - Smoke Tree	125.18	
32 93 33 00-0145	EA	6' To 8' Cotinus coggygria - Smoke Tree	187.70	
32 93 33 00-0146	EA	8' To 10' Cotinus coggygria - Smoke Tree	283.10	
32 93 33 00-0147	EA	5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster	32.70	
32 93 33 00-0148	EA	18" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	32.70	
32 93 33 00-0149	EA	24" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	34.00	
32 93 33 00-0150	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	31.33	
32 93 33 00-0151	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	34.00	
32 93 33 00-0152	EA	18" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	32.70	
32 93 33 00-0153	EA	24" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	34.00	
32 93 33 00-0154	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	13.49	
32 93 33 00-0155	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	41.73	
32 93 33 00-0156	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	56.34	
32 93 33 00-0157	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	95.40	
32 93 33 00-0158	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	9.61	
32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	23.78	
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	13.49	
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	26.55	
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	9.61	
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	23.78	
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	94.38	
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	21.44	
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	53.60	
32 93 33 00-0167	EA	18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	33.35	
32 93 33 00-0168	EA	24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	36.62	
32 93 33 00-0169	EA	30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	47.08	
32 93 33 00-0170	EA	36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	54.93	
32 93 33 00-0171	EA	42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	62.78	
32 93 33 00-0172	EA	24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	52.31	
32 93 33 00-0173	EA	30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	62.78	
32 93 33 00-0174	EA	36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	73.24	
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	19.62	
32 93 33 00-0176	EA	36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	47.08	
32 93 33 00-0177	EA	48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	62.78	
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive	23.78	
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	9.61	
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	23.78	
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	94.38	
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	9.61	
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	23.78	
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	94.38	
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	39.06	
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	53.67	
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	64.21	
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	62.52	
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	9.61	
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	23.78	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0191	EA	15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	94.38	
32 93 33 00-0192	EA	1 Gallon Euonymus - Gold Spot	11.24	
32 93 33 00-0193	EA	2 Gallon Euonymus - Gold Spot	23.60	
32 93 33 00-0194	EA	5 Gallon Euonymus - Gold Spot	32.46	
32 93 33 00-0195	EA	1 Gallon Euonymus alatus - Winged Euonymus	9.60	
32 93 33 00-0196	EA	3 Gallon Euonymus alatus - Winged Euonymus	27.67	
32 93 33 00-0197	EA	24" Balled and Burlapped, Euonymus alatus - Winged Euonymus	37.30	
32 93 33 00-0198	EA	30" Balled and Burlapped, Euonymus alatus - Winged Euonymus	46.62	
32 93 33 00-0199	EA	36" Balled and Burlapped, Euonymus alatus - Winged Euonymus	64.07	
32 93 33 00-0200	EA	42" Balled and Burlapped, Euonymus alatus - Winged Euonymus	79.11	
32 93 33 00-0201	EA	48" Balled and Burlapped, Euonymus alatus - Winged Euonymus	93.25	
32 93 33 00-0202	EA	54" Balled and Burlapped, Euonymus alatus - Winged Euonymus	120.32	
32 93 33 00-0203	EA	5 Gallon Euonymus alatus - Winged Euonymus	34.59	
32 93 33 00-0204	EA	60" Balled and Burlapped, Euonymus alatus - Winged Euonymus	150.40	
32 93 33 00-0205	EA	30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	58.85	
32 93 33 00-0206	EA	36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	69.97	
32 93 33 00-0207	EA	42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	91.55	
32 93 33 00-0208	EA	48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	109.86	
32 93 33 00-0209	EA	60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	136.01	
32 93 33 00-0210	EA	18" To 24" Euonymus alatus - Winged Burning Bush	41.73	
32 93 33 00-0211	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	49.17	
32 93 33 00-0212	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush	67.16	
32 93 33 00-0213	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush	80.50	
32 93 33 00-0214	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush	101.30	
32 93 33 00-0215	EA	4' To 5' Euonymus alatus - Winged Burning Bush	143.03	
32 93 33 00-0216	EA	5' To 6' Euonymus alatus - Winged Burning Bush	178.85	
32 93 33 00-0217	EA	6' To 8' Euonymus alatus - Winged Burning Bush	208.64	
32 93 33 00-0218	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush	41.73	
32 93 33 00-0219	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush	47.63	
32 93 33 00-0220	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush	58.17	
32 93 33 00-0221	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush	82.05	
32 93 33 00-0222	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush	96.94	
32 93 33 00-0223	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush	116.19	
32 93 33 00-0224	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush	163.96	
32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush	193.74	
32 93 33 00-0226	EA	36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo	35.31	
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper	13.49	
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper	26.55	
32 93 33 00-0229	EA	3 Gallon Euonymus fortunei - Wintercreeper	32.46	
32 93 33 00-0230	EA	5 Gallon Euonymus fortunei - Wintercreeper	38.50	
32 93 33 00-0231	EA	1 Gallon Euonymus japonicus - Evergreen Spindle	9.61	
32 93 33 00-0232	EA	5 Gallon Euonymus japonicus - Evergreen Spindle	23.78	
32 93 33 00-0233	EA	15 Gallon Euonymus japonicus - Evergreen Spindle	94.38	
32 93 33 00-0234	EA	2' To 3' Forsythia - Korean Forsythia	29.79	
32 93 33 00-0235	EA	3' To 4' Forsythia - Korean Forsythia	37.65	
32 93 33 00-0236	EA	4' To 5' Forsythia - Korean Forsythia	46.92	
32 93 33 00-0237	EA	30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	30.08	
32 93 33 00-0238	EA	36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	33.35	
32 93 33 00-0239	EA	48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	35.97	
32 93 33 00-0240	EA	18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	31.39	
32 93 33 00-0241	EA	24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	41.85	
32 93 33 00-0242	EA	24" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	31.39	
32 93 33 00-0243	EA	30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	36.62	
32 93 33 00-0244	EA	36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	43.16	
32 93 33 00-0245	EA	42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	49.70	
32 93 33 00-0246	EA	48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	57.54	
32 93 33 00-0247	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	44.47	
32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	62.12	
32 93 33 00-0249	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	65.39	
32 93 33 00-0250	EA	15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	68.01	
32 93 33 00-0251	EA	18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	73.24	
32 93 33 00-0252	EA	24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	88.93	
32 93 33 00-0253	EA	24" Balled and Burlapped, Fothergilla major - Large Fothergilla	115.09	
32 93 33 00-0254	EA	30" Balled and Burlapped, Fothergilla major - Large Fothergilla	130.78	
32 93 33 00-0255	EA	1 Gallon Gardenia jasminoides - Cape Jasmine	9.69	
32 93 33 00-0256	EA	3 Gallon Gardenia jasminoides - Cape Jasmine	25.43	
32 93 33 00-0257	EA	5 Gallon Gardenia jasminoides - Cape Jasmine	32.46	
32 93 33 00-0258	EA	1 Gallon Grevillea 'Noellii' - Noel's Grevillea	9.61	
32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea	23.78	
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea	94.38	
32 93 33 00-0261	EA	36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	91.55	
32 93 33 00-0262	EA	48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	149.09	
32 93 33 00-0263	EA	60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	188.33	
32 93 33 00-0264	EA	72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	287.72	
32 93 33 00-0265	EA	84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	326.96	
32 93 33 00-0266	EA	1 Gallon Hedychium gartdnerum - Variegated Ginger	5.56	
32 93 33 00-0267	EA	3 Gallon Hedychium gartdnerum - Variegated Ginger	19.55	
32 93 33 00-0268	EA	5 Gallon Hedychium gartdnerum - Variegated Ginger	37.60	
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus	14.26	
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus	24.06	
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus	36.40	



Exterior Improvements		32
Planting	32 90	32
Plants	32 93	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon	37.65	
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon	32.03	
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon	43.27	
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon	62.52	
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon	86.41	
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea	26.55	
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea	37.37	
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	41.73	
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	47.63	
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea	26.55	
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	45.77	
32 93 33 00-0283	EA	30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	49.70	
32 93 33 00-0284	EA	36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	57.54	
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	60.16	
32 93 33 00-0286	EA	18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	47.08	
32 93 33 00-0287	EA	24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	62.78	
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	27.46	
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	32.70	
32 93 33 00-0290	EA	18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	28.12	
32 93 33 00-0291	EA	24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	30.08	
32 93 33 00-0292	EA	30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	34.00	
32 93 33 00-0293	EA	36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	39.23	
32 93 33 00-0294	EA	48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	52.31	
32 93 33 00-0295	EA	18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	37.93	
32 93 33 00-0296	EA	24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	43.16	
32 93 33 00-0297	EA	30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	51.01	
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort	26.55	
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort	31.39	
32 93 33 00-0300	EA	24" Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort	34.00	
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly	13.49	
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly	26.55	
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly	37.37	
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly	35.83	
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly	45.38	
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly	58.87	
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly	71.51	
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly	26.76	
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	13.49	
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	26.55	
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	38.50	
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly	13.49	
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly	29.51	
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly	38.50	
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly	29.50	
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly	35.55	
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly	71.51	
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly	95.40	
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly	95.40	
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly	157.92	
32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly	202.60	
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly	244.32	
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly	342.67	
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly	476.85	
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly	685.34	
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly	1,043.05	
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly	1,266.44	
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly	1,564.43	
32 93 33 00-0329	EA	2' To 3' Ilex verticillata - Winterberry (Female)	95.40	
32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female)	125.18	
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male)	77.41	
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male)	107.34	
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male)	125.18	
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly	12.65	
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly	25.43	
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly	89.36	
32 93 33 00-0337	EA	18" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	40.54	
32 93 33 00-0338	EA	24" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	45.77	
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly	52.31	
32 93 33 00-0340	EA	18" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	48.39	
32 93 33 00-0341	EA	24" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	58.85	
32 93 33 00-0342	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry	43.16	
32 93 33 00-0343	EA	24" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	43.16	
32 93 33 00-0344	EA	30" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	45.77	
32 93 33 00-0345	EA	36" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	54.93	
32 93 33 00-0346	EA	42" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	61.47	
32 93 33 00-0347	EA	48" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	65.39	
32 93 33 00-0348	EA	60" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	83.70	
32 93 33 00-0349	EA	4' To 5' Ilex x attenuata "Foster" - Holly	154.97	
32 93 33 00-0350	EA	5' To 6' Ilex x attenuata "Foster" - Holly	205.55	
32 93 33 00-0351	EA	6' To 7' Ilex x attenuata "Foster" - Holly	183.91	
32 93 33 00-0352	EA	7' To 8' Ilex x attenuata "Foster" - Holly	357.56	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0353	EA	1 Gallon Jasimnum - Jasmine.....	3.46	
32 93 33 00-0354	EA	3 Gallon Jasimnum - Jasmine.....	13.54	
32 93 33 00-0355	EA	3 Gallon Jasimnum - Orange Jasmine.....	10.53	
32 93 33 00-0356	EA	4' - 5' Jasimnum - Orange Jasmine.....	120.32	
32 93 33 00-0357	EA	6' - 7' Jasimnum - Orange Jasmine.....	240.64	
32 93 33 00-0358	EA	8' - 10' Jasimnum - Orange Jasmine.....	324.86	
32 93 33 00-0359	EA	3 Gallon Juniperus chinensis cvs - Chinese Juniper.....	45.77	
32 93 33 00-0360	EA	5 Gallon Juniperus chinensis cvs - Chinese Juniper.....	51.01	
32 93 33 00-0361	EA	18" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	68.01	
32 93 33 00-0362	EA	24" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	88.93	
32 93 33 00-0363	EA	30" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	104.63	
32 93 33 00-0364	EA	36" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	141.25	
32 93 33 00-0365	EA	48" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	193.56	
32 93 33 00-0366	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	21.81	
32 93 33 00-0367	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	45.77	
32 93 33 00-0368	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	51.01	
32 93 33 00-0369	EA	15" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	54.93	
32 93 33 00-0370	EA	18" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	60.16	
32 93 33 00-0371	EA	24" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	73.24	
32 93 33 00-0372	EA	30" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	88.93	
32 93 33 00-0373	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper.....	35.31	
32 93 33 00-0374	EA	18" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	41.85	
32 93 33 00-0375	EA	24" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	57.54	
32 93 33 00-0376	EA	30" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	73.24	
32 93 33 00-0377	EA	36" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	88.93	
32 93 33 00-0378	EA	3 Gallon Juniperus sabina cvs - Savin Juniper.....	32.70	
32 93 33 00-0379	EA	5 Gallon Juniperus sabina cvs - Savin Juniper.....	39.23	
32 93 33 00-0380	EA	4 Gallon Juniperus virginiana cvs - Red Cedar Juniper.....	34.00	
32 93 33 00-0381	EA	36" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	65.39	
32 93 33 00-0382	EA	48" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	102.01	
32 93 33 00-0383	EA	60" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper.....	128.17	
32 93 33 00-0384	EA	15" To 18" Kalmia latifolia - Mountain Laurel.....	53.67	
32 93 33 00-0385	EA	18" To 24" Kalmia latifolia - Mountain Laurel.....	71.51	
32 93 33 00-0386	EA	2' To 3' Kalmia latifolia - Mountain Laurel.....	104.25	
32 93 33 00-0387	EA	4' To 5' Kalmia latifolia - Mountain Laurel.....	190.65	
32 93 33 00-0388	EA	5' To 6' Kalmia latifolia - Mountain Laurel.....	292.09	
32 93 33 00-0389	EA	6' To 8' Kalmia latifolia - Mountain Laurel.....	447.06	
32 93 33 00-0390	EA	1 Gallon Kerria japonica - Kerria.....	11.94	
32 93 33 00-0391	EA	5 Gallon Kerria japonica - Kerria.....	37.37	
32 93 33 00-0392	EA	24" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	37.93	
32 93 33 00-0393	EA	30" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	43.16	
32 93 33 00-0394	EA	36" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	47.08	
32 93 33 00-0395	EA	42" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	54.93	
32 93 33 00-0396	EA	48" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	62.78	
32 93 33 00-0397	EA	60" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush.....	78.47	
32 93 33 00-0398	EA	1 Gallon Lagerstroemia indica - Crape Myrtle.....	8.99	
32 93 33 00-0399	EA	5 Gallon Lagerstroemia indica - Crape Myrtle.....	32.03	
32 93 33 00-0400	EA	3' To 4' Lagerstroemia indica - Crape Myrtle.....	44.68	
32 93 33 00-0401	EA	4' To 5' Lagerstroemia indica - Crape Myrtle.....	65.61	
32 93 33 00-0402	EA	5' To 6' Lagerstroemia indica - Crape Myrtle.....	104.25	
32 93 33 00-0403	EA	7' To 8' Lagerstroemia indica - Crape Myrtle.....	135.36	
32 93 33 00-0404	EA	9' To 10' Lagerstroemia indica - Crape Myrtle.....	180.48	
32 93 33 00-0405	EA	11' To 12' Lagerstroemia indica - Crape Myrtle.....	376.00	
32 93 33 00-0406	EA	1 Gallon Leucothoe axillaris - Coast Leucothoe.....	13.49	
32 93 33 00-0407	EA	2 Gallon Leucothoe axillaris - Coast Leucothoe.....	29.51	
32 93 33 00-0408	EA	3 Gallon Leucothoe axillaris - Coast Leucothoe.....	35.55	
32 93 33 00-0409	EA	1 Gallon Ligustrum lucidum - Glossy Privet.....	8.29	
32 93 33 00-0410	EA	5 Gallon Ligustrum lucidum - Glossy Privet.....	25.43	
32 93 33 00-0411	EA	15 Gallon Ligustrum lucidum - Glossy Privet.....	119.14	
32 93 33 00-0412	EA	1 Gallon Ligustrum sinense - Variegated Chinese Privet.....	8.29	
32 93 33 00-0413	EA	2 Gallon Ligustrum sinense - Variegated Chinese Privet.....	17.84	
32 93 33 00-0414	EA	3 Gallon Ligustrum sinense - Variegated Chinese Privet.....	23.18	
32 93 33 00-0415	EA	36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	39.23	
32 93 33 00-0416	EA	48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	57.54	
32 93 33 00-0417	EA	60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	73.24	
32 93 33 00-0418	EA	72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet.....	83.70	
32 93 33 00-0419	EA	5 Gallon Linder benzoin - Spicebush.....	43.16	
32 93 33 00-0420	EA	36" Balled and Burlapped, Linder benzoin - Spicebush.....	36.62	
32 93 33 00-0421	EA	48" Balled and Burlapped, Linder benzoin - Spicebush.....	44.47	
32 93 33 00-0422	EA	2' To 3' Lonicera fragrantissima - Winter Honeysuckle.....	71.51	
32 93 33 00-0423	EA	3' To 4' Lonicera fragrantissima - Winter Honeysuckle.....	86.40	
32 93 33 00-0424	EA	30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	39.23	
32 93 33 00-0425	EA	36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	47.08	
32 93 33 00-0426	EA	42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	52.31	
32 93 33 00-0427	EA	48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle.....	57.54	
32 93 33 00-0428	EA	1 Gallon Myrica cerifera - Wax Myrtle.....	7.52	
32 93 33 00-0429	EA	4 Gallon Myrica cerifera - Wax Myrtle.....	24.06	
32 93 33 00-0430	EA	7 Gallon Myrica cerifera - Wax Myrtle.....	52.64	
32 93 33 00-0431	EA	10 Gallon Myrica cerifera - Wax Myrtle.....	78.21	
32 93 33 00-0432	EA	15 Gallon Myrica cerifera - Wax Myrtle.....	120.32	
32 93 33 00-0433	EA	45 Gallon Myrica cerifera - Wax Myrtle.....	360.96	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0434	EA	1' - 2' Myrica cerifera - Wax Myrtle.....	10.53	
32 93 33 00-0435	EA	3' - 4' Myrica cerifera - Wax Myrtle.....	36.10	
32 93 33 00-0436	EA	5' - 6' Myrica cerifera - Wax Myrtle.....	66.18	
32 93 33 00-0437	EA	7' - 8' Myrica cerifera - Wax Myrtle.....	90.24	
32 93 33 00-0438	EA	9' - 10' Myrica cerifera - Wax Myrtle.....	120.32	
32 93 33 00-0439	EA	11' - 12' Myrica cerifera - Wax Myrtle.....	183.49	
32 93 33 00-0440	EA	3 Gallon Myrica pensylvanica - Northern Bayberry.....	39.23	
32 93 33 00-0441	EA	24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	64.08	
32 93 33 00-0442	EA	30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	94.16	
32 93 33 00-0443	EA	36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	112.47	
32 93 33 00-0444	EA	48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry.....	117.70	
32 93 33 00-0445	EA	1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	9.61	
32 93 33 00-0446	EA	5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	23.78	
32 93 33 00-0447	EA	15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum.....	94.38	
32 93 33 00-0448	EA	1 Gallon Nandina domestica - Heavenly Bamboo.....	13.49	
32 93 33 00-0449	EA	2 Gallon Nandina domestica - Heavenly Bamboo.....	29.51	
32 93 33 00-0450	EA	5 Gallon Nandina domestica - Heavenly Bamboo.....	44.68	
32 93 33 00-0451	EA	15 Gallon Nerium oleander - Oleander.....	103.27	
32 93 33 00-0452	EA	24" Box Nerium oleander - Oleander.....	371.12	
32 93 33 00-0453	EA	1 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	8.29	
32 93 33 00-0454	EA	3 Gallon Osmanthus fragrans - Fragrant Tea Olive.....	22.48	
32 93 33 00-0455	EA	1 Gallon Philadelphus - Evergreen Mockorange.....	11.52	
32 93 33 00-0456	EA	5 Gallon Philadelphus - Evergreen Mockorange.....	37.37	
32 93 33 00-0457	EA	36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	39.23	
32 93 33 00-0458	EA	42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	45.77	
32 93 33 00-0459	EA	48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	52.31	
32 93 33 00-0460	EA	1 Gallon Photinia fraseri - Red-Tipped Photinia.....	9.61	
32 93 33 00-0461	EA	5 Gallon Photinia fraseri - Red-Tipped Photinia.....	23.78	
32 93 33 00-0462	EA	15 Gallon Photinia fraseri - Red-Tipped Photinia.....	94.38	
32 93 33 00-0463	EA	1 Gallon Phormium tenax - New Zealand Flax.....	10.13	
32 93 33 00-0464	EA	5 Gallon Phormium tenax - New Zealand Flax.....	24.29	
32 93 33 00-0465	EA	15 Gallon Phormium tenax - New Zealand Flax.....	103.27	
32 93 33 00-0466	EA	24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	39.23	
32 93 33 00-0467	EA	30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	45.77	
32 93 33 00-0468	EA	36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	52.31	
32 93 33 00-0469	EA	42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	65.39	
32 93 33 00-0470	EA	48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	78.47	
32 93 33 00-0471	EA	12" To 15" Spread Pieris - Mountain Andromeda.....	36.11	
32 93 33 00-0472	EA	15" To 18" Spread Pieris - Mountain Andromeda.....	77.41	
32 93 33 00-0473	EA	12" To 15" Pieris japonica - Japanese Andromeda.....	46.93	
32 93 33 00-0474	EA	15" To 18" Pieris japonica - Japanese Andromeda.....	53.67	
32 93 33 00-0475	EA	18" To 24" Pieris japonica - Japanese Andromeda.....	67.16	
32 93 33 00-0476	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda.....	95.40	
32 93 33 00-0477	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda.....	113.24	
32 93 33 00-0478	EA	24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	40.74	
32 93 33 00-0479	EA	30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	52.15	
32 93 33 00-0480	EA	36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	62.74	
32 93 33 00-0481	EA	48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	80.67	
32 93 33 00-0482	EA	60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	96.96	
32 93 33 00-0483	EA	72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	141.78	
32 93 33 00-0484	EA	30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	88.00	
32 93 33 00-0485	EA	36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	105.93	
32 93 33 00-0486	EA	48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	140.96	
32 93 33 00-0487	EA	1 Gallon Pittosporum - Pittosporum.....	4.96	
32 93 33 00-0488	EA	3 Gallon Pittosporum - Pittosporum.....	12.78	
32 93 33 00-0489	EA	1 Gallon Pittosporum - Varigated Pittosporum.....	4.96	
32 93 33 00-0490	EA	3 Gallon Pittosporum - Varigated Pittosporum.....	12.78	
32 93 33 00-0491	EA	5 Gallon Pittosporum - Varigated Pittosporum.....	22.41	
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood.....	11.04	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood.....	26.15	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum.....	9.61	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum.....	23.78	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum.....	94.38	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	22.23	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	31.39	
32 93 33 00-0499	EA	18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	23.54	
32 93 33 00-0500	EA	24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	26.16	
32 93 33 00-0501	EA	30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	37.93	
32 93 33 00-0502	EA	36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	43.81	
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	5.60	
32 93 33 00-0504	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	14.01	
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	83.51	
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel.....	21.36	
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel.....	26.44	
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel.....	34.40	
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond.....	19.08	
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond.....	24.42	
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond.....	38.95	
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond.....	77.99	
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond.....	23.46	
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond.....	26.35	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond	30.64
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry	20.83
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry	25.56
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry	30.64
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry	35.10
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate	8.85
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate	26.13
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate	53.67
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumii "Santa Cruz" - Pyracantha	11.24
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumii "Santa Cruz" - Pyracantha	37.37
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumii "Santa Cruz" - Pyracantha	77.41
32 93 33 00-0526	EA	1 Gallon Ralphiopsis indica - Indian Hawthorne	8.99
32 93 33 00-0527	EA	2 Gallon Ralphiopsis indica - Indian Hawthorne	17.14
32 93 33 00-0528	EA	5 Gallon Ralphiopsis indica - Indian Hawthorne	30.49
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry	13.67
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry	39.08
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry	117.29
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge	68.56
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge	93.99
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge	122.23
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge	223.53
32 93 33 00-0536	EA	1 Gallon Rhamnus frangula "Ballerina" - Ballerina Indian Hawthorn	10.23
32 93 33 00-0537	EA	5 Gallon Rhamnus frangula "Ballerina" - Ballerina Indian Hawthorn	24.29
32 93 33 00-0538	EA	15 Gallon Rhamnus frangula "Ballerina" - Ballerina Indian Hawthorn	103.27
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids	14.61
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids	29.50
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids	38.50
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids	44.68
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids	52.26
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids	65.61
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids	95.40
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids	134.03
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Liam Hybrids	16.44
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Liam Hybrids	29.50
32 93 33 00-0549	EA	15" To 18" Rhododendron - Azalea Exbury, Knapp Hill And Liam Hybrids	50.72
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Liam Hybrids	65.61
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Liam Hybrids	95.40
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Liam Hybrids	140.08
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Liam Hybrids	187.70
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azalea	37.37
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azalea	134.03
32 93 33 00-0556	EA	15" To 18" Rhododendron - Carolina Rhododendron	42.29
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron	74.46
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron	110.29
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea	50.16
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea	65.61
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea	86.41
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea	50.16
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea	62.52
32 93 33 00-0564	EA	2' To 3' Rhododendron - Ghent Azalea	101.30
32 93 33 00-0565	EA	3' To 4' Rhododendron - Ghent Azalea	140.08
32 93 33 00-0566	EA	4' To 5' Rhododendron - Ghent Azalea	187.70
32 93 33 00-0567	EA	5' To 6' Rhododendron - Ghent Azalea	250.37
32 93 33 00-0568	EA	1 Gallon Rhododendron - Hybrid Rhododendron	16.44
32 93 33 00-0569	EA	2 Gallon Rhododendron - Hybrid Rhododendron	35.55
32 93 33 00-0570	EA	3 Gallon Rhododendron - Hybrid Rhododendron	50.44
32 93 33 00-0571	EA	5 Gallon Rhododendron - Hybrid Rhododendron	56.34
32 93 33 00-0572	EA	15" To 18" Rhododendron - Hybrid Rhododendron	47.63
32 93 33 00-0573	EA	18" To 24" Rhododendron - Hybrid Rhododendron	65.61
32 93 33 00-0574	EA	24" To 30" Rhododendron - Hybrid Rhododendron	89.36
32 93 33 00-0575	EA	30" To 36" Rhododendron - Hybrid Rhododendron	104.25
32 93 33 00-0576	EA	36" To 42" Rhododendron - Hybrid Rhododendron	149.07
32 93 33 00-0577	EA	42" To 48" Rhododendron - Hybrid Rhododendron	184.75
32 93 33 00-0578	EA	15" To 18" Rhododendron - Pjm Rhododendron	53.67
32 93 33 00-0579	EA	18" To 24" Rhododendron - Pjm Rhododendron	65.61
32 93 33 00-0580	EA	2' To 2-1/2' Rhododendron - Pjm Rhododendron	95.40
32 93 33 00-0581	EA	2-1/2' To 3' Rhododendron - Pjm Rhododendron	122.23
32 93 33 00-0582	EA	3' To 3-1/2' Rhododendron - Pjm Rhododendron	149.07
32 93 33 00-0583	EA	12" To 15" Rhododendron - Torch Azalea	41.73
32 93 33 00-0584	EA	15" To 18" Rhododendron - Torch Azalea	50.16
32 93 33 00-0585	EA	18" To 24" Rhododendron - Torch Azalea	62.52
32 93 33 00-0586	EA	2' To 3' Rhododendron - Torch Azalea	104.25
32 93 33 00-0587	EA	3 Gallon Rhododendron cvs - Lepidote Rhododendron	47.08
32 93 33 00-0588	EA	5 Gallon Rhododendron cvs - Lepidote Rhododendron	57.54
32 93 33 00-0589	EA	18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	70.62
32 93 33 00-0590	EA	24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	88.93
32 93 33 00-0591	EA	30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	104.63
32 93 33 00-0592	EA	36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron	125.55
32 93 33 00-0593	EA	1 Gallon Rhus glabra - Dwarf Smooth Sumac	13.49
32 93 33 00-0594	EA	5 Gallon Rhus glabra - Dwarf Smooth Sumac	37.37
32 93 33 00-0595	EA	2 Gallon Rhus aromatica & cvs - Fragrant Sumac	31.39

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 93 33 00-0596	EA	5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	43.16	
32 93 33 00-0597	EA	18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	49.70	
32 93 33 00-0598	EA	24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	65.39	
32 93 33 00-0599	EA	36" Balled and Burlapped, Rhus glabra - Smooth Sumac.....	39.23	
32 93 33 00-0600	EA	48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	65.39	
32 93 33 00-0601	EA	72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	104.63	
32 93 33 00-0602	EA	15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	35.31	
32 93 33 00-0603	EA	18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	40.54	
32 93 33 00-0604	EA	24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	58.85	
32 93 33 00-0605	EA	30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	78.47	
32 93 33 00-0606	EA	1 Gallon Rosa hybrids & cvs - Shrub Rose.....	21.58	
32 93 33 00-0607	EA	2 Gallon Rosa hybrids & cvs - Shrub Rose.....	26.16	
32 93 33 00-0608	EA	3 Gallon Rosa hybrids & cvs - Shrub Rose.....	32.70	
32 93 33 00-0609	EA	2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	23.54	
32 93 33 00-0610	EA	3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	30.08	
32 93 33 00-0611	EA	5 Gallon Sambucus canadensis - American Elder.....	43.16	
32 93 33 00-0612	EA	1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	9.61	
32 93 33 00-0613	EA	5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	23.78	
32 93 33 00-0614	EA	1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	9.61	
32 93 33 00-0615	EA	5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	23.78	
32 93 33 00-0616	EA	2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	19.39	
32 93 33 00-0617	EA	3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	28.38	
32 93 33 00-0618	EA	1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	10.54	
32 93 33 00-0619	EA	5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	27.54	
32 93 33 00-0620	EA	5 Gallon Senna artemisioides - Feathery Cassia.....	25.73	
32 93 33 00-0621	EA	15 Gallon Senna artemisioides - Feathery Cassia.....	102.38	
32 93 33 00-0622	EA	24" Box Senna artemisioides - Feathery Cassia.....	321.60	
32 93 33 00-0623	EA	1 Gallon Skimmia japonica - Japanese Skimmia.....	13.49	
32 93 33 00-0624	EA	2 Gallon Skimmia japonica - Japanese Skimmia.....	26.83	
32 93 33 00-0625	EA	5 Gallon Skimmia japonica - Japanese Skimmia.....	43.27	
32 93 33 00-0626	EA	1 Gallon Sollya fusiformis - Bluebell Creeper.....	9.61	
32 93 33 00-0627	EA	5 Gallon Sollya fusiformis - Bluebell Creeper.....	23.78	
32 93 33 00-0628	EA	3' To 4' Spiraea - Garland Spiraea.....	62.52	
32 93 33 00-0629	EA	4' To 5' Spiraea - Garland Spiraea.....	95.40	
32 93 33 00-0630	EA	5 Gallon Spiraea - Snowmound Spiraea.....	37.37	
32 93 33 00-0631	EA	18" To 24" Spiraea - Snowmound Spiraea.....	30.63	
32 93 33 00-0632	EA	2' To 3' Spiraea - Snowmound Spiraea.....	43.27	
32 93 33 00-0633	EA	3' To 4' Spiraea - Snowmound Spiraea.....	50.16	
32 93 33 00-0634	EA	4' To 5' Spiraea - Snowmound Spiraea.....	86.40	
32 93 33 00-0635	EA	1 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	13.49	
32 93 33 00-0636	EA	2 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	26.55	
32 93 33 00-0637	EA	3 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	30.73	
32 93 33 00-0638	EA	5 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	33.35	
32 93 33 00-0639	EA	18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	34.00	
32 93 33 00-0640	EA	24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	39.23	
32 93 33 00-0641	EA	30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	44.47	
32 93 33 00-0642	EA	36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	51.66	
32 93 33 00-0643	EA	2 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	20.93	
32 93 33 00-0644	EA	5 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	31.39	
32 93 33 00-0645	EA	18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	28.77	
32 93 33 00-0646	EA	24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	34.00	
32 93 33 00-0647	EA	30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	39.23	
32 93 33 00-0648	EA	36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	44.47	
32 93 33 00-0649	EA	48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea.....	57.54	
32 93 33 00-0650	EA	1 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea.....	13.49	
32 93 33 00-0651	EA	2 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea.....	24.19	
32 93 33 00-0652	EA	4 Gallon Spiraea x bumalda & cvs - Bumalda Spiraea.....	31.39	
32 93 33 00-0653	EA	18" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	27.46	
32 93 33 00-0654	EA	24" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	33.35	
32 93 33 00-0655	EA	30" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	39.23	
32 93 33 00-0656	EA	36" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spiraea.....	44.47	
32 93 33 00-0657	EA	5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	31.39	
32 93 33 00-0658	EA	18" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	31.39	
32 93 33 00-0659	EA	24" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	36.62	
32 93 33 00-0660	EA	30" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	49.70	
32 93 33 00-0661	EA	36" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	57.54	
32 93 33 00-0662	EA	42" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spiraea.....	68.01	
32 93 33 00-0663	EA	5 Gallon Staphylea trifolia - Bladdernut.....	44.15	
32 93 33 00-0664	EA	2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	31.39	
32 93 33 00-0665	EA	5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	34.00	
32 93 33 00-0666	EA	24" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra.....	39.23	
32 93 33 00-0667	EA	30" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra.....	47.08	
32 93 33 00-0668	EA	2 Gallon Symphoricarpos albus - Common Snowberry.....	32.70	
32 93 33 00-0669	EA	5 Gallon Symphoricarpos albus - Common Snowberry.....	34.66	
32 93 33 00-0670	EA	24" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	57.54	
32 93 33 00-0671	EA	30" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	71.93	
32 93 33 00-0672	EA	36" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	83.70	
32 93 33 00-0673	EA	42" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	96.78	
32 93 33 00-0674	EA	18" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	57.54	
32 93 33 00-0675	EA	24" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	62.78	
32 93 33 00-0676	EA	30" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	71.93	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0677	EA	36" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	83.70
32 93 33 00-0678	EA	42" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	96.78
32 93 33 00-0679	EA	60" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	45.77
32 93 33 00-0680	EA	72" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	49.70
32 93 33 00-0681	EA	36" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	39.23
32 93 33 00-0682	EA	42" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	44.47
32 93 33 00-0683	EA	48" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	49.70
32 93 33 00-0684	EA	60" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	57.54
32 93 33 00-0685	EA	72" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	70.62
32 93 33 00-0686	EA	5 Gallon Syringa x chinensis & cvs - Chinese Lilac.....	32.70
32 93 33 00-0687	EA	36" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	37.93
32 93 33 00-0688	EA	48" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	49.70
32 93 33 00-0689	EA	48" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	207.94
32 93 33 00-0690	EA	54" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	232.79
32 93 33 00-0691	EA	60" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	256.33
32 93 33 00-0692	EA	72" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	308.65
32 93 33 00-0693	EA	18" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	54.93
32 93 33 00-0694	EA	24" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	71.93
32 93 33 00-0695	EA	30" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	83.70
32 93 33 00-0696	EA	36" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	91.55
32 93 33 00-0697	EA	15" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	54.93
32 93 33 00-0698	EA	18" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	71.93
32 93 33 00-0699	EA	24" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	85.01
32 93 33 00-0700	EA	30" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	100.70
32 93 33 00-0701	EA	36" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	151.71
32 93 33 00-0702	EA	36" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	83.70
32 93 33 00-0703	EA	48" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	112.47
32 93 33 00-0704	EA	60" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	170.02
32 93 33 00-0705	EA	72" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	248.49
32 93 33 00-0706	EA	84" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	285.11
32 93 33 00-0707	EA	96" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae.....	330.88
32 93 33 00-0708	EA	15" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	36.62
32 93 33 00-0709	EA	18" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	51.01
32 93 33 00-0710	EA	24" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae.....	71.93
32 93 33 00-0711	EA	3' To 4' Viburnum dilatatum - Linden Viburnum.....	62.52
32 93 33 00-0712	EA	4' To 5' Viburnum dilatatum - Linden Viburnum.....	95.40
32 93 33 00-0713	EA	5' To 6' Viburnum dilatatum - Linden Viburnum.....	125.18
32 93 33 00-0714	EA	1 Gallon Viburnum japonicum - Japanese Viburnum.....	7.59
32 93 33 00-0715	EA	3 Gallon Viburnum japonicum - Japanese Viburnum.....	20.79
32 93 33 00-0716	EA	5 Gallon Viburnum plicatum - Japanese Snowball.....	37.37
32 93 33 00-0717	EA	5' To 6' Viburnum plicatum - Japanese Snowball.....	140.08
32 93 33 00-0718	EA	2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	65.61
32 93 33 00-0719	EA	3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	77.41
32 93 33 00-0720	EA	4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum.....	108.89
32 93 33 00-0721	EA	30" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	71.93
32 93 33 00-0722	EA	36" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum.....	86.32
32 93 33 00-0723	EA	24" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	65.39
32 93 33 00-0724	EA	30" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	78.47
32 93 33 00-0725	EA	36" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	91.55
32 93 33 00-0726	EA	42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum.....	104.63
32 93 33 00-0727	EA	1 Gallon Viburnum davidii - David Viburnum.....	9.61
32 93 33 00-0728	EA	5 Gallon Viburnum davidii - David Viburnum.....	23.78
32 93 33 00-0729	EA	36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	36.62
32 93 33 00-0730	EA	42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	39.23
32 93 33 00-0731	EA	48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	45.77
32 93 33 00-0732	EA	60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	52.31
32 93 33 00-0733	EA	72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum.....	57.54
32 93 33 00-0734	EA	30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	35.31
32 93 33 00-0735	EA	36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	39.23
32 93 33 00-0736	EA	42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	49.70
32 93 33 00-0737	EA	48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	57.54
32 93 33 00-0738	EA	60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	78.47
32 93 33 00-0739	EA	72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum.....	94.16
32 93 33 00-0740	EA	36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	39.23
32 93 33 00-0741	EA	48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	52.31
32 93 33 00-0742	EA	5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	65.39
32 93 33 00-0743	EA	6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	91.55
32 93 33 00-0744	EA	7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	130.78
32 93 33 00-0745	EA	8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	183.10
32 93 33 00-0746	EA	9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum.....	235.41
32 93 33 00-0747	EA	30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	47.08
32 93 33 00-0748	EA	36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum.....	52.31
32 93 33 00-0749	EA	36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	94.16
32 93 33 00-0750	EA	48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	143.86
32 93 33 00-0751	EA	60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	183.10
32 93 33 00-0752	EA	72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	222.33
32 93 33 00-0753	EA	84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	274.64
32 93 33 00-0754	EA	96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	326.96
32 93 33 00-0755	EA	108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	392.35
32 93 33 00-0756	EA	120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum.....	457.74
32 93 33 00-0757	EA	30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	39.89



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
32 93 33 00-0758	EA 36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	43.81		
32 93 33 00-0759	EA 48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	49.70		
32 93 33 00-0760	EA 60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	57.54		
32 93 33 00-0761	EA 72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum.....	66.05		
32 93 33 00-0762	EA 18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	37.93		
32 93 33 00-0763	EA 24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	45.77		
32 93 33 00-0764	EA 30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	54.93		
32 93 33 00-0765	EA 36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	62.78		
32 93 33 00-0766	EA 42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	75.85		
32 93 33 00-0767	EA 48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	83.70		
32 93 33 00-0768	EA 30" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	65.39		
32 93 33 00-0769	EA 36" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	78.47		
32 93 33 00-0770	EA 42" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	91.55		
32 93 33 00-0771	EA 48" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	104.63		
32 93 33 00-0772	EA 60" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	117.70		
32 93 33 00-0773	EA 30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	83.70		
32 93 33 00-0774	EA 36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	94.16		
32 93 33 00-0775	EA 42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	107.24		
32 93 33 00-0776	EA 48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum.....	122.94		
32 93 33 00-0777	EA 2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	77.41		
32 93 33 00-0778	EA 3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	95.40		
32 93 33 00-0779	EA 4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	140.08		
32 93 33 00-0780	EA 5 Gallon Weigela florida & cvs - Old Fashioned Weigela.....	43.16		
32 93 33 00-0781	EA 24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	39.23		
32 93 33 00-0782	EA 30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	44.47		
32 93 33 00-0783	EA 36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	49.70		
32 93 33 00-0784	EA 42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	57.54		
32 93 33 00-0785	EA 48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	65.39		
32 93 33 00-0786	EA 1 Gallon Xylosma congestum - Shiny Xylosma	8.99		
32 93 33 00-0787	EA 5 Gallon Xylosma congestum - Shiny Xylosma	25.43		
32 93 33 00-0788	EA 15 Gallon Xylosma congestum - Shiny Xylosma	111.83		
32 93 33 00-0789	EA 1 Gallon Yucca aloifolia - Spanish Bayonet.....	7.59		
32 93 33 00-0790	EA 3 Gallon Yucca aloifolia - Spanish Bayonet.....	20.09		
32 93 33 00-0791	EA 1 Gallon Yucca filamentosa - Adams Needle	10.54		
32 93 33 00-0792	EA 3 Gallon Yucca filamentosa - Adams Needle	20.51		
32 93 33 00-0793	EA 5 Gallon Yucca filamentosa - Adams Needle	32.46		
32 93 33 00-0794	EA 5 Gallon Border Forsythia - Goldenbells.....	36.11		
32 93 33 00-0795	EA 2' To 3' Border Forsythia - Goldenbells.....	29.79		
32 93 33 00-0796	EA 3' To 4' Border Forsythia - Goldenbells.....	37.65		
32 93 33 00-0797	EA 4' To 5' Border Forsythia - Goldenbells.....	46.93		
32 93 33 00-0798	EA 5' To 6' Border Forsythia - Goldenbells.....	56.34		
32 93 33 00-0799	EA 6' To 8' Border Forsythia - Goldenbells.....	77.41		
32 93 33 00-0800	EA 3' Juniperus chinensis - Columnar Chinese Juniper	76.70		
32 93 33 00-0801	EA 4' Juniperus chinensis - Columnar Chinese Juniper	105.28		
32 93 33 00-0802	EA 5' Juniperus chinensis - Columnar Chinese Juniper	165.44		
32 93 33 00-0803	EA 6' Juniperus chinensis - Columnar Chinese Juniper	192.51		
32 93 33 00-0804	EA 7' Juniperus chinensis - Columnar Chinese Juniper	252.67		
32 93 33 00-0805	EA 2 Gallon Chrysobalanus icaco - Cocoplum Red Tip	15.04		
32 93 33 00-0806	EA 3 Gallon Chrysobalanus icaco - Cocoplum Red Tip	21.06		
32 93 33 00-0807	EA 5 Gallon Chrysobalanus icaco - Cocoplum Red Tip	50.99		
32 93 33 00-0808	EA 2 Gallon Chrysobalanus icaco - Cocoplum Green Tip	15.04		
32 93 33 00-0809	EA 3 Gallon Chrysobalanus icaco - Cocoplum Green Tip	21.06		

32 93 43 Trees (32 93)

Note: (cvs = cultivar or cultivated varieties) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001 Deciduous Ornamental Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA 6' Clump Form Acer ginnala & cvs - Amur Maple	287.06
32 93 43 00-0003	EA 7' Clump Form Acer ginnala & cvs - Amur Maple	350.85
32 93 43 00-0004	EA 8' Clump Form Acer ginnala & cvs - Amur Maple	398.70
32 93 43 00-0005	EA 10' Clump Form Acer ginnala & cvs - Amur Maple	462.49
32 93 43 00-0006	EA 12' Clump Form Acer ginnala & cvs - Amur Maple	526.28
32 93 43 00-0007	EA 14' Clump Form Acer ginnala & cvs - Amur Maple	621.97
32 93 43 00-0008	EA 1-1/2" To 2" Caliper Acer griseum - Paperbark Maple	285.63
32 93 43 00-0009	EA 2" To 2-1/2" Caliper Acer griseum - Paperbark Maple	1,020.66
32 93 43 00-0010	EA 2-1/2" To 3" Caliper Acer griseum - Paperbark Maple	1,275.83
32 93 43 00-0011	EA 5' Clump Form Acer griseum - Paperbark Maple	255.17
32 93 43 00-0012	EA 1-1/2" Caliper Aesculus californica - California Buckeye	637.91
32 93 43 00-0013	EA 2" Caliper Aesculus californica - California Buckeye	829.29
32 93 43 00-0014	EA 2-1/2" Caliper Aesculus californica - California Buckeye	956.87
32 93 43 00-0015	EA 3" Caliper Aesculus californica - California Buckeye	1,084.45
32 93 43 00-0016	EA 3-1/2" Caliper Aesculus californica - California Buckeye	1,275.83
32 93 43 00-0017	EA 36" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	104.63
32 93 43 00-0018	EA 48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	130.78
32 93 43 00-0019	EA 60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry	162.17
32 93 43 00-0020	EA 60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	130.78
32 93 43 00-0021	EA 72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry	156.94
32 93 43 00-0022	EA 7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	183.10

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0023	EA	8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	209.25	
32 93 43 00-0024	EA	5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	235.41	
32 93 43 00-0025	EA	6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	261.57	
32 93 43 00-0026	EA	7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	300.80	
32 93 43 00-0027	EA	8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	340.03	
32 93 43 00-0028	EA	9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry	392.35	
32 93 43 00-0029	EA	7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	300.80	
32 93 43 00-0030	EA	8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	353.11	
32 93 43 00-0031	EA	9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	405.43	
32 93 43 00-0032	EA	10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry	444.66	
32 93 43 00-0033	EA	30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	104.63	
32 93 43 00-0034	EA	48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	222.33	
32 93 43 00-0035	EA	60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	287.72	
32 93 43 00-0036	EA	2' To 4' Amelechmier - Juneberry	31.85	
32 93 43 00-0037	EA	4' To 5' Amelechmier - Juneberry	33.41	
32 93 43 00-0038	EA	5' To 6' Amelechmier - Juneberry	39.78	
32 93 43 00-0039	EA	6' To 8' Amelechmier - Juneberry	47.46	
32 93 43 00-0040	EA	6' Cercis occidentalis - Western Redbud	178.63	
32 93 43 00-0041	EA	8' Cercis occidentalis - Western Redbud	245.76	
32 93 43 00-0042	EA	2-1/2" Caliper Cercis occidentalis - Western Redbud	506.18	
32 93 43 00-0043	EA	3" Caliper Cercis occidentalis - Western Redbud	616.22	
32 93 43 00-0044	EA	2' To 3' Magnolia Virginiana - Sweetbay Magnolia	60.45	
32 93 43 00-0045	EA	3' To 4' Magnolia Virginiana - Sweetbay Magnolia	90.67	
32 93 43 00-0046	EA	4' To 5' Magnolia Virginiana - Sweetbay Magnolia	113.34	
32 93 43 00-0047	EA	5' To 6' Magnolia Virginiana - Sweetbay Magnolia	141.16	
32 93 43 00-0048	EA	4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	239.22	
32 93 43 00-0049	EA	5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	318.96	
32 93 43 00-0050	EA	6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	414.64	
32 93 43 00-0051	EA	7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	462.49	
32 93 43 00-0052	EA	8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	558.17	
32 93 43 00-0053	EA	9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	621.97	
32 93 43 00-0054	EA	4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	239.22	
32 93 43 00-0055	EA	5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	318.96	
32 93 43 00-0056	EA	6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	414.64	
32 93 43 00-0057	EA	7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	462.49	
32 93 43 00-0058	EA	8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	558.17	
32 93 43 00-0059	EA	9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	621.97	
32 93 43 00-0060	EA	1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	6.82	
32 93 43 00-0061	EA	5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	28.89	
32 93 43 00-0062	EA	20 Gallon Prunus subhirtella - Flowering Cherry	394.55	
32 93 43 00-0063	EA	1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry.....	407.84	
32 93 43 00-0064	EA	2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	509.75	
32 93 43 00-0065	EA	3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry.....	1,063.80	
32 93 43 00-0066	EA	3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	819.90	
32 93 43 00-0067	EA	4" To 5" Caliper Prunus subhirtella - Flowering Cherry.....	1,595.70	
32 93 43 00-0068	EA	5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	101.91	
32 93 43 00-0069	EA	15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	279.14	
32 93 43 00-0070	EA	20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	363.53	
32 93 43 00-0071	EA	5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	115.20	
32 93 43 00-0072	EA	6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	221.54	
32 93 43 00-0073	EA	1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	407.84	
32 93 43 00-0074	EA	2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	487.59	
32 93 43 00-0075	EA	1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry.....	319.23	
32 93 43 00-0076	EA	1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	265.84	
32 93 43 00-0077	EA	1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry	389.90	
32 93 43 00-0078	EA	2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry	465.44	
32 93 43 00-0079	EA	2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry	598.36	
32 93 43 00-0080	EA	15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	308.04	
32 93 43 00-0081	EA	20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	385.05	
32 93 43 00-0082	EA	1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	400.45	
32 93 43 00-0083	EA	2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	477.46	
32 93 43 00-0084	EA	2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	646.89	
32 93 43 00-0085	EA	3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	847.12	
32 93 43 00-0086	EA	3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear	1,078.14	
32 93 43 00-0087	EA	15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	308.04	
32 93 43 00-0088	EA	20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear.....	385.05	
32 93 43 00-0089	EA	1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	261.84	
32 93 43 00-0090	EA	2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	400.45	
32 93 43 00-0091	EA	2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	477.05	
32 93 43 00-0092	EA	3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	646.89	
32 93 43 00-0093	EA	3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear	847.12	
32 93 43 00-0094	EA	1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	561.11	
32 93 43 00-0095	EA	2" Caliper Pyrus calleryana & cvs - Callery Pear	701.39	
32 93 43 00-0096	EA	2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	869.73	
32 93 43 00-0097	EA	3" Caliper Pyrus calleryana & cvs - Callery Pear	981.95	
32 93 43 00-0098	EA	3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear	1,094.17	
32 93 43 00-0099	EA	4" Caliper Pyrus calleryana & cvs - Callery Pear	1,402.78	
32 93 43 00-0100	EA	1 Gallon Ribes aureum - Golden Current.....	5.97	
32 93 43 00-0101	EA	5 Gallon Ribes aureum - Golden Current.....	17.07	
32 93 43 00-0102	EA	1 Gallon Ribes sanguineum - Red Flowering Currant.....	5.97	
32 93 43 00-0103	EA	5 Gallon Ribes sanguineum - Red Flowering Currant.....	17.07	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 93 43 00-0104	EA	1 Gallon Ribes viburnifolium - Evergreen Currant.....	5.97		
32 93 43 00-0105	EA	5 Gallon Ribes viburnifolium - Evergreen Currant.....	17.07		
32 93 43 00-0106	EA	8' Cassia leptophylla - Gold Medallion Tree	402.96		
32 93 43 00-0107	EA	10' Cassia leptophylla - Gold Medallion Tree	511.45		
32 93 43 00-0108	EA	12' Cassia leptophylla - Gold Medallion Tree	619.94		
32 93 43 00-0109	EA	6' Magnolia grandiflora 'St. Mary's'	464.96		
32 93 43 00-0110	EA	8' Magnolia grandiflora 'St. Mary's'	821.42		
32 93 43 00-0111	EA	10' Magnolia grandiflora 'St. Mary's'	1,032.20		
32 93 43 00-0112	EA	12' Magnolia grandiflora 'St. Mary's'	1,239.88		
32 93 43 00-0113	EA	14' Magnolia grandiflora 'St. Mary's'	1,441.36		
32 93 43 00-0114	EA	16' Magnolia grandiflora 'St. Mary's'	1,704.84		
32 93 43 00-0115	EA	24" Box Magnolia grandiflora 'St. Mary's'	511.45		
32 93 43 00-0116	EA	6' Prunus cerasifera - Purple Leaf Plum	241.78		
32 93 43 00-0117	EA	8' Prunus cerasifera - Purple Leaf Plum	278.97		
32 93 43 00-0118	EA	10' Prunus cerasifera - Purple Leaf Plum	359.57		
32 93 43 00-0119	EA	24" Box Prunus cerasifera - Purple Leaf Plum.....	382.81		
32 93 43 00-0120	EA	30" Box Prunus cerasifera - Purple Leaf Plum.....	774.92		
32 93 43 00-0121	EA	36" Box Prunus cerasifera - Purple Leaf Plum.....	1,188.74		
32 93 43 00-0122	EA	6' Pittosporum phylliraeoides - Willow Pittosporum	505.25		
32 93 43 00-0123	EA	8' Pittosporum phylliraeoides - Willow Pittosporum	722.23		
32 93 43 00-0124	EA	10' Pittosporum phylliraeoides - Willow Pittosporum	864.82		
32 93 43 00-0125	EA	12' Pittosporum phylliraeoides - Willow Pittosporum	1,115.89		
32 93 43 00-0126	EA	6' Stenocarpus sinuatus - Firewheel Tree.....	743.93		
32 93 43 00-0127	EA	8' Stenocarpus sinuatus - Firewheel Tree.....	991.90		
32 93 43 00-0128	EA	10" Stenocarpus sinuatus - Firewheel Tree.....	1,239.88		
32 93 43 00-0129	EA	12" Stenocarpus sinuatus - Firewheel Tree.....	1,487.86		
32 93 43 00-0130	EA	24" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	737.09		
32 93 43 00-0131	EA	36" Box Handroanthus impetiginosus (Tabebuia avellanedae) - Pink Trumpet Tree.....	2,133.67		
32 93 43 00-0132	EA	1-1/2" Caliper Arbutus menziesii - Madrona	539.08		
32 93 43 00-0133	EA	2" Caliper Arbutus menziesii - Madrona	700.80		
32 93 43 00-0134	EA	2-1/2" Caliper Arbutus menziesii - Madrona	808.62		
32 93 43 00-0135	EA	3" Caliper Arbutus menziesii - Madrona	916.43		
32 93 43 00-0136	EA	3-1/2" Caliper Arbutus menziesii - Madrona	1,078.16		
32 93 43 00-0137	EA	1-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	371.96		
32 93 43 00-0138	EA	2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	604.44		
32 93 43 00-0139	EA	2-1/2" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	743.93		
32 93 43 00-0140	EA	3" Caliper Koelreuteria bipinnata - Chinese Flame Tree.....	821.42		
32 93 43 00-0141	EA	24" Box Koelreuteria bipinnata - Chinese Flame Tree	362.66		
32 93 43 00-0142	EA	30" Box Koelreuteria bipinnata - Chinese Flame Tree	836.92		
32 93 43 00-0143	EA	36" Box Koelreuteria bipinnata - Chinese Flame Tree	1,309.62		
32 93 43 00-0144	EA	1-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	337.87		
32 93 43 00-0145	EA	2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	548.65		
32 93 43 00-0146	EA	2-1/2" Cliber Koelreuteria paniculata - Golden Rain Tree.....	672.63		
32 93 43 00-0147	EA	3" Cliber Koelreuteria paniculata - Golden Rain Tree.....	759.43		
32 93 43 00-0148	EA	6' Magnolia grandiflora - Southern Magnolia	229.38		
32 93 43 00-0149	EA	7' Magnolia grandiflora - Southern Magnolia	347.17		
32 93 43 00-0150	EA	8' Magnolia grandiflora - Southern Magnolia	486.65		
32 93 43 00-0151	EA	9' Magnolia grandiflora - Southern Magnolia	647.84		
32 93 43 00-0152	EA	10' Magnolia grandiflora - Southern Magnolia	985.70		
32 93 43 00-0153	EA	24" Box Magnolia grandiflora - Southern Magnolia.....	402.96		
32 93 43 00-0154	EA	1-1/2" Caliper Tipuana tipu - Tipu Tree.....	480.45		
32 93 43 00-0155	EA	2" Caliper Tipuana tipu - Tipu Tree.....	626.14		
32 93 43 00-0156	EA	2-1/2" Caliper Tipuana tipu - Tipu Tree.....	793.52		
32 93 43 00-0157	EA	3" Caliper Tipuana tipu - Tipu Tree.....	914.41		
32 93 43 00-0158	EA	3-1/2" Caliper Tipuana tipu - Tipu Tree.....	1,345.27		
32 93 43 00-0159	EA	4" Caliper Tipuana tipu - Tipu Tree.....	1,797.83		
32 93 43 00-0160	EA	24" Box Tipuana tipu - Tipu Tree.....	362.66		
32 93 43 00-0161	EA	6' Albizia julibrissin - Silk Tree	743.93		
32 93 43 00-0162	EA	8' Albizia julibrissin - Silk Tree	991.90		
32 93 43 00-0163	EA	10' Albizia julibrissin - Silk Tree	1,239.88		
32 93 43 00-0164	EA	12' Albizia julibrissin - Silk Tree	1,487.86		
32 93 43 00-0165	EA	6' Brachychiton acerifolius - Flame Tree.....	743.93		
32 93 43 00-0166	EA	8' Brachychiton acerifolius - Flame Tree.....	991.90		
32 93 43 00-0167	EA	10' Brachychiton acerifolius - Flame Tree.....	1,239.88		
32 93 43 00-0168	EA	12' Brachychiton acerifolius - Flame Tree.....	1,487.86		
32 93 43 00-0169	EA	1-1/2" Caliper Chilopsis linearis - Desert Willow	601.34		
32 93 43 00-0170	EA	2" Caliper Chilopsis linearis - Desert Willow	722.23		
32 93 43 00-0171	EA	2-1/2" Caliper Chilopsis linearis - Desert Willow	768.73		
32 93 43 00-0172	EA	3" Caliper Chilopsis linearis - Desert Willow	852.42		
32 93 43 00-0173	EA	5 Gallon Chionanthus retusus - Chinese Fringe Tree.....	31.00		
32 93 43 00-0174	EA	15 Gallon Chionanthus retusus - Chinese Fringe Tree.....	123.99		
32 93 43 00-0175	EA	24" Box Chionanthus retusus - Chinese Fringe Tree.....	619.94		
32 93 43 00-0176	EA	5 Gallon Calodendrum capense - Cape Chestnut	46.50		
32 93 43 00-0177	EA	15 Gallon Calodendrum capense - Cape Chestnut	185.98		
32 93 43 00-0178	EA	24" Box Calodendrum capense - Cape Chestnut	697.43		
32 93 43 00-0179	EA	6' Chionanthus virginicus - White Fringe Tree	371.96		
32 93 43 00-0180	EA	8' Chionanthus virginicus - White Fringe Tree	513.52		
32 93 43 00-0181	EA	10' Chionanthus virginicus - White Fringe Tree	715.26		
32 93 43 00-0182	EA	15 Gallon Geijera parvifolia - Australian Willow	220.08		
32 93 43 00-0183	EA	24" Box Geijera parvifolia - Australian Willow	453.00		
32 93 43 00-0184	EA	30" Box Geijera parvifolia - Australian Willow	843.64		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0185	EA	36" Box Geijera parvifolia - Australian Willow	1,210.44	
32 93 43 00-0186	EA	1-1/2" Caliper Ginko Biloba - Maidenhair Tree	652.90	
32 93 43 00-0187	EA	2" Caliper Ginko Biloba - Maidenhair Tree	909.66	
32 93 43 00-0188	EA	2-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,096.73	
32 93 43 00-0189	EA	3" Caliper Ginko Biloba - Maidenhair Tree	1,280.13	
32 93 43 00-0190	EA	3-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,676.28	
32 93 43 00-0191	EA	4" Caliper Ginko Biloba - Maidenhair Tree	1,789.98	
32 93 43 00-0192	EA	4-1/2" Caliper Ginko Biloba - Maidenhair Tree	1,907.36	
32 93 43 00-0193	EA	24" Box Ginko Biloba - Maidenhair Tree	596.05	
32 93 43 00-0194	EA	15 Gallon Sapium sebiferum - Chinese Tallow Tree	220.08	
32 93 43 00-0195	EA	24" Box Sapium sebiferum - Chinese Tallow Tree	806.96	
32 93 43 00-0196	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	234.75	
32 93 43 00-0197	EA	6' Lagerstroemia indica - Crape Myrtle	436.49	
32 93 43 00-0198	EA	8' Lagerstroemia indica - Crape Myrtle	451.16	
32 93 43 00-0199	EA	10' Lagerstroemia indica - Crape Myrtle	546.53	
32 93 43 00-0200	EA	24" Box Lagerstroemia indica - Crape Myrtle	429.16	
32 93 43 00-0201	EA	5 Gallon Celtis Sinensis - Chinese Hackberry	45.48	
32 93 43 00-0202	EA	15 Gallon Celtis Sinensis - Chinese Hackberry	119.92	
32 93 43 00-0203	EA	24" Box Celtis Sinensis - Chinese Hackberry	392.82	
32 93 43 00-0204	EA	36" Box Celtis Sinensis - Chinese Hackberry	1,147.46	
32 93 43 00-0205	EA	5 Gallon Crataegus phaenopyrum - Washington Hawthorn	45.48	
32 93 43 00-0206	EA	15 Gallon Crataegus phaenopyrum - Washington Hawthorn	119.92	
32 93 43 00-0207	EA	24" Box Crataegus phaenopyrum - Washington Hawthorn	392.82	
32 93 43 00-0208	EA	36" Box Crataegus phaenopyrum - Washington Hawthorn	1,147.46	
32 93 43 00-0209	EA	1 Gallon Eucalyptus ficifolia - Red-Flowering Gum	13.44	
32 93 43 00-0210	EA	5 Gallon Eucalyptus ficifolia - Red-Flowering Gum	37.22	
32 93 43 00-0211	EA	15 Gallon Eucalyptus ficifolia - Red-Flowering Gum	163.33	
32 93 43 00-0212	EA	24" Box Eucalyptus ficifolia - Red-Flowering Gum	392.82	
32 93 43 00-0213	EA	36" Box Eucalyptus ficifolia - Red-Flowering Gum	1,033.75	
32 93 43 00-0214	EA	15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash	101.31	
32 93 43 00-0215	EA	24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	330.80	
32 93 43 00-0216	EA	36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	878.69	
32 93 43 00-0217	EA	48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash	1,964.12	
32 93 43 00-0218	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	28.94	
32 93 43 00-0219	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	101.31	
32 93 43 00-0220	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	330.80	
32 93 43 00-0221	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	878.69	
32 93 43 00-0222	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	1,964.12	
32 93 43 00-0223	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	28.94	
32 93 43 00-0224	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	121.98	
32 93 43 00-0225	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	330.80	
32 93 43 00-0226	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	930.38	
32 93 43 00-0227	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	2,377.62	
32 93 43 00-0228	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum	28.94	
32 93 43 00-0229	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum	121.98	
32 93 43 00-0230	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	330.80	
32 93 43 00-0231	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	930.38	
32 93 43 00-0232	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	2,377.62	
32 93 43 00-0233	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	28.94	
32 93 43 00-0234	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	121.98	
32 93 43 00-0235	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	330.80	
32 93 43 00-0236	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	930.38	
32 93 43 00-0237	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	2,377.62	
32 93 43 00-0238	EA	1 Gallon Pittosporum undulatum - Victorian Box	25.22	
32 93 43 00-0239	EA	5 Gallon Pittosporum undulatum - Victorian Box	54.31	
32 93 43 00-0240	EA	15 Gallon Pittosporum undulatum - Victorian Box	306.47	
32 93 43 00-0241	EA	24" Box Pittosporum undulatum - Victorian Box	737.09	
32 93 43 00-0242	EA	36" Box Pittosporum undulatum - Victorian Box	2,133.67	
32 93 43 00-0243	EA	48" Box Pittosporum undulatum - Victorian Box	4,849.25	
32 93 43 00-0244	EA	15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	103.27	
32 93 43 00-0245	EA	24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	372.05	

32 93 43 00-0246**Deciduous Shade Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0247	EA	3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple	244.39	
32 93 43 00-0248	EA	4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple	299.57	
32 93 43 00-0249	EA	4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple	390.23	
32 93 43 00-0250	EA	5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	505.85	
32 93 43 00-0251	EA	2' To 2-1/2' Acer palmatum - Japanese Maple	25.78	
32 93 43 00-0252	EA	4' To 5' Acer palmatum - Japanese Maple	54.13	
32 93 43 00-0253	EA	5' To 6' Acer palmatum - Japanese Maple	70.88	
32 93 43 00-0254	EA	6' To 7' Acer palmatum - Japanese Maple	128.88	
32 93 43 00-0255	EA	7' To 8' Acer palmatum - Japanese Maple	180.43	
32 93 43 00-0256	EA	8' To 10' Acer palmatum - Japanese Maple	231.99	
32 93 43 00-0257	EA	10' To 12' Acer palmatum - Japanese Maple	309.32	
32 93 43 00-0258	EA	2" Caliper Acer platanoides & cvs - Norway Maple	131.39	
32 93 43 00-0259	EA	2" Caliper Acer platanoides & cvs - Norway Maple	159.95	
32 93 43 00-0260	EA	3" Caliper Acer platanoides & cvs - Norway Maple	205.65	
32 93 43 00-0261	EA	3-1/2" Caliper Acer platanoides & cvs - Norway Maple	239.93	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 93 43 00-0262	EA	4" Caliper Acer platanoides & cvs - Norway Maple.....	257.07	
32 93 43 00-0263	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	279.92	
32 93 43 00-0264	EA	5" Caliper Acer platanoides & cvs - Norway Maple.....	314.19	
32 93 43 00-0265	EA	2" Caliper Acer rubrum & cvs - Red Maple.....	125.68	
32 93 43 00-0266	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple.....	159.95	
32 93 43 00-0267	EA	3" Caliper Acer rubrum & cvs - Red Maple.....	205.65	
32 93 43 00-0268	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple.....	251.35	
32 93 43 00-0269	EA	4" Caliper Acer rubrum & cvs - Red Maple.....	285.63	
32 93 43 00-0270	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple.....	331.33	
32 93 43 00-0271	EA	5" Caliper Acer rubrum & cvs - Red Maple.....	371.32	
32 93 43 00-0272	EA	8' Clump Form Acer rubrum & cvs - Red Maple.....	154.24	
32 93 43 00-0273	EA	10' Clump Form Acer rubrum & cvs - Red Maple.....	205.65	
32 93 43 00-0274	EA	12' Clump Form Acer rubrum & cvs - Red Maple.....	239.93	
32 93 43 00-0275	EA	14' Clump Form Acer rubrum & cvs - Red Maple.....	274.21	
32 93 43 00-0276	EA	16' Clump Form Acer rubrum & cvs - Red Maple.....	308.48	
32 93 43 00-0277	EA	18' Clump Form Acer rubrum & cvs - Red Maple.....	342.76	
32 93 43 00-0278	EA	2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	199.94	
32 93 43 00-0279	EA	2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	222.79	
32 93 43 00-0280	EA	3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	251.35	
32 93 43 00-0281	EA	3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	285.63	
32 93 43 00-0282	EA	4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	342.76	
32 93 43 00-0283	EA	2" Caliper Betula nigra - River Birch.....	142.82	
32 93 43 00-0284	EA	2-1/2" Caliper Betula nigra - River Birch.....	161.72	
32 93 43 00-0285	EA	3" Caliper Betula nigra - River Birch.....	182.80	
32 93 43 00-0286	EA	3-1/2" Caliper Betula nigra - River Birch.....	228.50	
32 93 43 00-0287	EA	4" Caliper Betula nigra - River Birch.....	257.07	
32 93 43 00-0288	EA	4-1/2" Caliper Betula nigra - River Birch.....	285.63	
32 93 43 00-0289	EA	5" Caliper Betula nigra - River Birch.....	314.19	
32 93 43 00-0290	EA	8' Clump Form Betula nigra - River Birch.....	131.39	
32 93 43 00-0291	EA	10' Clump Form Betula nigra - River Birch.....	148.53	
32 93 43 00-0292	EA	12' Clump Form Betula nigra - River Birch.....	171.38	
32 93 43 00-0293	EA	14' Clump Form Betula nigra - River Birch.....	199.94	
32 93 43 00-0294	EA	16' Clump Form Betula nigra - River Birch.....	228.50	
32 93 43 00-0295	EA	12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	171.38	
32 93 43 00-0296	EA	14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	205.65	
32 93 43 00-0297	EA	16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	239.93	
32 93 43 00-0298	EA	18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	285.63	
32 93 43 00-0299	EA	20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	297.06	
32 93 43 00-0300	EA	2" Caliper Carpinus betulus & cvs - European Hornbeam.....	228.50	
32 93 43 00-0301	EA	2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	257.07	
32 93 43 00-0302	EA	3" Caliper Carpinus betulus & cvs - European Hornbeam.....	297.06	
32 93 43 00-0303	EA	3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	359.89	
32 93 43 00-0304	EA	6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	102.83	
32 93 43 00-0305	EA	7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	142.82	
32 93 43 00-0306	EA	8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	177.09	
32 93 43 00-0307	EA	2" Caliper Catalpa speciosa - Western Catalpa.....	125.68	
32 93 43 00-0308	EA	2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	171.38	
32 93 43 00-0309	EA	3" Caliper Catalpa speciosa - Western Catalpa.....	222.79	
32 93 43 00-0310	EA	3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	268.49	
32 93 43 00-0311	EA	4" Caliper Catalpa speciosa - Western Catalpa.....	308.48	
32 93 43 00-0312	EA	8' Clump Form Corylus cornuta californica - Western Filbert.....	159.95	
32 93 43 00-0313	EA	10' Clump Form Corylus cornuta californica - Western Filbert.....	194.23	
32 93 43 00-0314	EA	12' Clump Form Corylus cornuta californica - Western Filbert.....	228.50	
32 93 43 00-0315	EA	1-1/2" Caliper Diospyros - Persimmon.....	102.83	
32 93 43 00-0316	EA	2" Caliper Diospyros - Persimmon.....	125.68	
32 93 43 00-0317	EA	2-1/2" Caliper Diospyros - Persimmon.....	159.95	
32 93 43 00-0318	EA	3" Caliper Diospyros - Persimmon.....	199.94	
32 93 43 00-0319	EA	3-1/2" Caliper Diospyros - Persimmon.....	239.93	
32 93 43 00-0320	EA	2" Caliper Fagus sylvatica & cvs - European Beech.....	257.07	
32 93 43 00-0321	EA	2-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	308.48	
32 93 43 00-0322	EA	3" Caliper Fagus sylvatica & cvs - European Beech.....	371.32	
32 93 43 00-0323	EA	3-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	411.31	
32 93 43 00-0324	EA	4" Caliper Fagus sylvatica & cvs - European Beech.....	485.57	
32 93 43 00-0325	EA	4-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	628.39	
32 93 43 00-0326	EA	5" Caliper Fagus sylvatica & cvs - European Beech.....	742.64	
32 93 43 00-0327	EA	2" Caliper Fraxinus americana & cvs - White Ash.....	142.82	
32 93 43 00-0328	EA	2-1/2" Caliper Fraxinus americana & cvs - White Ash.....	171.38	
32 93 43 00-0329	EA	3" Caliper Fraxinus americana & cvs - White Ash.....	217.08	
32 93 43 00-0330	EA	3-1/2" Caliper Fraxinus americana & cvs - White Ash.....	262.78	
32 93 43 00-0331	EA	4" Caliper Fraxinus americana & cvs - White Ash.....	308.48	
32 93 43 00-0332	EA	4-1/2" Caliper Fraxinus americana & cvs - White Ash.....	342.76	
32 93 43 00-0333	EA	5" Caliper Fraxinus americana & cvs - White Ash.....	399.88	
32 93 43 00-0334	EA	1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	199.94	
32 93 43 00-0335	EA	2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	222.79	
32 93 43 00-0336	EA	2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	251.35	
32 93 43 00-0337	EA	3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	279.92	
32 93 43 00-0338	EA	3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	314.19	
32 93 43 00-0339	EA	4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	342.76	
32 93 43 00-0340	EA	4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	514.13	
32 93 43 00-0341	EA	5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	571.26	
32 93 43 00-0342	EA	2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	137.10	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0343	EA	2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	171.38
32 93 43 00-0344	EA	3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	205.65
32 93 43 00-0345	EA	3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	239.93
32 93 43 00-0346	EA	4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	274.21
32 93 43 00-0347	EA	4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	308.48
32 93 43 00-0348	EA	5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	365.61
32 93 43 00-0349	EA	10' - 12' Bursera Simaruba - Gumbo Limbo	72.26
32 93 43 00-0350	EA	12' - 14' Bursera Simaruba - Gumbo Limbo	85.40
32 93 43 00-0351	EA	14' - 16' Bursera Simaruba - Gumbo Limbo	118.25
32 93 43 00-0352	EA	17' - 18' Bursera Simaruba - Gumbo Limbo	153.73
32 93 43 00-0353	EA	19' - 20' Bursera Simaruba - Gumbo Limbo	170.81
32 93 43 00-0354	EA	21' - 22' Bursera Simaruba - Gumbo Limbo	202.34
32 93 43 00-0355	EA	1-1/2" Caliper Juglans californica - California Walnut	137.10
32 93 43 00-0356	EA	2" Caliper Juglans californica - California Walnut	159.95
32 93 43 00-0357	EA	2-1/2" Caliper Juglans californica - California Walnut	199.94
32 93 43 00-0358	EA	3" Caliper Juglans californica - California Walnut	251.35
32 93 43 00-0359	EA	3-1/2" Caliper Juglans californica - California Walnut	308.48
32 93 43 00-0360	EA	4" Caliper Juglans californica - California Walnut	371.32
32 93 43 00-0361	EA	4-1/2" Caliper Juglans californica - California Walnut	428.45
32 93 43 00-0362	EA	5" Caliper Juglans californica - California Walnut	485.57
32 93 43 00-0363	EA	5 Gallon Koelreuteria Paniculata - Goldenrain Tree	15.47
32 93 43 00-0364	EA	15 Gallon Koelreuteria Paniculata - Goldenrain Tree	38.66
32 93 43 00-0365	EA	20 Gallon Koelreuteria Paniculata - Goldenrain Tree	77.33
32 93 43 00-0366	EA	55 Gallon Koelreuteria Paniculata - Goldenrain Tree	100.53
32 93 43 00-0367	EA	1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	73.46
32 93 43 00-0368	EA	2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	88.93
32 93 43 00-0369	EA	2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	123.73
32 93 43 00-0370	EA	1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	182.80
32 93 43 00-0371	EA	2" Caliper Liquidambar styraciflua - American Sweetgum	228.50
32 93 43 00-0372	EA	2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	285.63
32 93 43 00-0373	EA	3" Caliper Liquidambar styraciflua - American Sweetgum	342.76
32 93 43 00-0374	EA	3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	399.88
32 93 43 00-0375	EA	1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	182.80
32 93 43 00-0376	EA	2" Caliper Liriodendron tulipifera - Tulip Tree	251.35
32 93 43 00-0377	EA	2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	297.06
32 93 43 00-0378	EA	3" Caliper Liriodendron tulipifera - Tulip Tree	342.76
32 93 43 00-0379	EA	3-1/2" Caliper Liriodendron tulipifera - Tulip Tree	388.46
32 93 43 00-0380	EA	8' Clump Form Liriodendron tulipifera - Tulip Tree	137.10
32 93 43 00-0381	EA	10' Clump Form Liriodendron tulipifera - Tulip Tree	245.64
32 93 43 00-0382	EA	12' Clump Form Liriodendron tulipifera - Tulip Tree	297.06
32 93 43 00-0383	EA	1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	182.80
32 93 43 00-0384	EA	2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	228.50
32 93 43 00-0385	EA	2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	285.63
32 93 43 00-0386	EA	3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	342.76
32 93 43 00-0387	EA	3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum	399.88
32 93 43 00-0388	EA	4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	79.98
32 93 43 00-0389	EA	5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	91.40
32 93 43 00-0390	EA	6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	108.54
32 93 43 00-0391	EA	7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	137.10
32 93 43 00-0392	EA	8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum	171.38
32 93 43 00-0393	EA	30" Box Platanus Occidentalis - Buttonwood Sycamore	248.18
32 93 43 00-0394	EA	36" Box Platanus Occidentalis - Buttonwood Sycamore	361.00
32 93 43 00-0395	EA	42" Box Platanus occidentalis - Buttonwood Sycamore	537.01
32 93 43 00-0396	EA	1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore	83.04
32 93 43 00-0397	EA	2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	99.28
32 93 43 00-0398	EA	2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore	135.37
32 93 43 00-0399	EA	3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore	164.28
32 93 43 00-0400	EA	8' To 10' Platanus occidentalis - Green Or Silver Buttonwood	68.32
32 93 43 00-0401	EA	10' To 12' Platanus occidentalis - Green Or Silver Buttonwood	85.40
32 93 43 00-0402	EA	12' To 14' Platanus occidentalis - Green Or Silver Buttonwood	151.10
32 93 43 00-0403	EA	16' To 18' Platanus occidentalis - Green Or Silver Buttonwood	216.79
32 93 43 00-0404	EA	2" Caliper Platanus x acerifolia & cvs - London Planetree	137.10
32 93 43 00-0405	EA	2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	165.67
32 93 43 00-0406	EA	3" Caliper Platanus x acerifolia & cvs - London Planetree	199.94
32 93 43 00-0407	EA	3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree	239.93
32 93 43 00-0408	EA	4" Caliper Platanus x acerifolia & cvs - London Planetree	285.63
32 93 43 00-0409	EA	2" Caliper Populus alba & cvs - White Poplar	137.10
32 93 43 00-0410	EA	2-1/2" Caliper Populus alba & cvs - White Poplar	159.95
32 93 43 00-0411	EA	3" Caliper Populus alba & cvs - White Poplar	182.80
32 93 43 00-0412	EA	3-1/2" Caliper Populus alba & cvs - White Poplar	217.08
32 93 43 00-0413	EA	4" Caliper Populus alba & cvs - White Poplar	239.93
32 93 43 00-0414	EA	4-1/2" Caliper Populus alba & cvs - White Poplar	274.21
32 93 43 00-0415	EA	2" Caliper Populus deltoides & cvs - Eastern Cottonwood	125.68
32 93 43 00-0416	EA	2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	165.67
32 93 43 00-0417	EA	3" Caliper Populus deltoides & cvs - Eastern Cottonwood	199.94
32 93 43 00-0418	EA	3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood	239.93
32 93 43 00-0419	EA	4" Caliper Populus deltoides & cvs - Eastern Cottonwood	285.63
32 93 43 00-0420	EA	2" Caliper Quercus palustris - Pin Oak	125.68
32 93 43 00-0421	EA	2-1/2" Caliper Quercus palustris - Pin Oak	171.38
32 93 43 00-0422	EA	3" Caliper Quercus palustris - Pin Oak	222.79
32 93 43 00-0423	EA	3-1/2" Caliper Quercus palustris - Pin Oak	257.07



Exterior Improvements		32
Planting	32 90	32
Plants	32 93	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 43 00-0424	EA	4" Caliper Quercus palustris - Pin Oak	297.06	
32 93 43 00-0425	EA	4-1/2" Caliper Quercus palustris - Pin Oak	337.04	
32 93 43 00-0426	EA	5" Caliper Quercus palustris - Pin Oak	371.32	
32 93 43 00-0427	EA	2" Caliper Quercus shumardii - Shumard Oak	194.23	
32 93 43 00-0428	EA	2-1/2" Caliper Quercus shumardii - Shumard Oak	245.64	
32 93 43 00-0429	EA	3" Caliper Quercus shumardii - Shumard Oak	285.63	
32 93 43 00-0430	EA	3-1/2" Caliper Quercus shumardii - Shumard Oak	342.76	
32 93 43 00-0431	EA	4" Caliper Quercus shumardii - Shumard Oak	399.88	
32 93 43 00-0432	EA	4-1/2" Caliper Quercus shumardii - Shumard Oak	457.01	
32 93 43 00-0433	EA	5" Caliper Quercus shumardii - Shumard Oak	514.13	
32 93 43 00-0434	EA	24" Box Salix babylonica - Weeping Willow	144.39	
32 93 43 00-0435	EA	36" Box Salix babylonica - Weeping Willow	361.00	
32 93 43 00-0436	EA	1-1/2" To 2" Caliper Salix babylonica - Weeping Willow	83.04	
32 93 43 00-0437	EA	2" To 2-1/2" Caliper Salix babylonica - Weeping Willow	99.28	
32 93 43 00-0438	EA	2-1/2" To 3" Caliper Salix babylonica - Weeping Willow	108.30	
32 93 43 00-0439	EA	2' Thuja occidentalis - American Arborvitae	19.58	
32 93 43 00-0440	EA	2-1/2' Thuja occidentalis - American Arborvitae	21.15	
32 93 43 00-0441	EA	3' Thuja occidentalis - American Arborvitae	30.22	
32 93 43 00-0442	EA	4' Thuja occidentalis - American Arborvitae	41.52	
32 93 43 00-0443	EA	5' Thuja occidentalis - American Arborvitae	57.81	
32 93 43 00-0444	EA	6' Thuja occidentalis - American Arborvitae	80.15	
32 93 43 00-0445	EA	7' Thuja occidentalis - American Arborvitae	97.23	
32 93 43 00-0446	EA	8' Thuja occidentalis - American Arborvitae	136.65	
32 93 43 00-0447	EA	2" Caliper Tilia cordata & cvs - Littleleaf Linden	143.67	
32 93 43 00-0448	EA	2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	173.55	
32 93 43 00-0449	EA	3" Caliper Tilia cordata & cvs - Littleleaf Linden	199.94	
32 93 43 00-0450	EA	3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	245.64	
32 93 43 00-0451	EA	4" Caliper Tilia cordata & cvs - Littleleaf Linden	279.92	
32 93 43 00-0452	EA	4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden	314.19	
32 93 43 00-0453	EA	5" Caliper Tilia cordata & cvs - Littleleaf Linden	348.47	
32 93 43 00-0454	EA	2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	159.95	
32 93 43 00-0455	EA	2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	182.80	
32 93 43 00-0456	EA	3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	199.94	
32 93 43 00-0457	EA	3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	217.08	
32 93 43 00-0458	EA	4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	239.93	
32 93 43 00-0459	EA	4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	285.63	
32 93 43 00-0460	EA	5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	337.04	
32 93 43 00-0461	EA	2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	182.80	
32 93 43 00-0462	EA	2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	199.94	
32 93 43 00-0463	EA	3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	217.08	
32 93 43 00-0464	EA	3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	239.93	
32 93 43 00-0465	EA	4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	285.63	
32 93 43 00-0466	EA	4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	337.04	
32 93 43 00-0467	EA	5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	388.46	
32 93 43 00-0468	EA	2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	182.80	
32 93 43 00-0469	EA	2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm	199.94	
32 93 43 00-0470	EA	3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	217.08	
32 93 43 00-0471	EA	3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	239.93	
32 93 43 00-0472	EA	4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	285.63	
32 93 43 00-0473	EA	4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	337.04	
32 93 43 00-0474	EA	5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	388.46	
32 93 43 00-0475	EA	1-1/2" To 2" Caliper Platanus acerifolia "Bloodgold" - London Plane	341.12	
32 93 43 00-0476	EA	2" To 2-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	608.89	
32 93 43 00-0477	EA	2-1/2" To 3" Caliper Platanus acerifolia "Bloodgold" - London Plane	891.32	
32 93 43 00-0478	EA	3" To 3-1/2" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,107.74	
32 93 43 00-0479	EA	3-1/2" To 4" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,434.19	
32 93 43 00-0480	EA	4" To 5" Caliper Platanus acerifolia "Bloodgold" - London Plane	1,632.26	
32 93 43 00-0481	EA	24" Box Platanus acerifolia "Bloodgold" - London Plane	429.16	
32 93 43 00-0482	EA	1-1/2" Caliper Quercus suber - Cork Oak	513.52	
32 93 43 00-0483	EA	2" Caliper Quercus suber - Cork Oak	711.59	
32 93 43 00-0484	EA	2-1/2" Caliper Quercus suber - Cork Oak	909.66	
32 93 43 00-0485	EA	3" Caliper Quercus suber - Cork Oak	1,137.08	
32 93 43 00-0486	EA	3-1/2" Caliper Quercus suber - Cork Oak	1,705.62	
32 93 43 00-0487	EA	4" Caliper Quercus suber - Cork Oak	2,200.80	
32 93 43 00-0488	EA	4-1/2" Caliper Quercus suber - Cork Oak	2,861.04	
32 93 43 00-0489	EA	1-1/2" Caliper Quercus ilex - Holly Oak	568.54	
32 93 43 00-0490	EA	2" Caliper Quercus ilex - Holly Oak	766.61	
32 93 43 00-0491	EA	2-1/2" Caliper Quercus ilex - Holly Oak	939.01	
32 93 43 00-0492	EA	3" Caliper Quercus ilex - Holly Oak	1,137.08	
32 93 43 00-0493	EA	3-1/2" Caliper Quercus ilex - Holly Oak	1,705.62	
32 93 43 00-0494	EA	4" Caliper Quercus ilex - Holly Oak	2,200.80	
32 93 43 00-0495				
Evergreen Trees (32 93 43)				
Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.				
32 93 43 00-0496	EA	2' To 3' Cedrus atlantica - Blue Atlas Cedar	25.16	
32 93 43 00-0497	EA	3' To 4' Cedrus atlantica - Blue Atlas Cedar	40.45	
32 93 43 00-0498	EA	4' To 5' Cedrus atlantica - Blue Atlas Cedar	60.09	
32 93 43 00-0499	EA	5' To 6' Cedrus atlantica - Blue Atlas Cedar	80.84	
32 93 43 00-0500	EA	7' To 8' Cedrus atlantica - Blue Atlas Cedar	114.77	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0501	EA	6' To 8' Cedrus deodara - Indian Cedar	103.85
32 93 43 00-0502	EA	8' To 10' Cedrus deodara - Indian Cedar	120.24
32 93 43 00-0503	EA	10' To 12' Cedrus deodara - Indian Cedar	163.94
32 93 43 00-0504	EA	12' To 14' Cedrus deodara - Indian Cedar	213.11
32 93 43 00-0505	EA	14' To 16' Cedrus deodara - Indian Cedar	273.25
32 93 43 00-0506	EA	15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	32.46
32 93 43 00-0507	EA	18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	48.69
32 93 43 00-0508	EA	2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	75.74
32 93 43 00-0509	EA	3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	129.85
32 93 43 00-0510	EA	5 Gallon Cupressocyparis leylandii - Leyland Cypress	17.86
32 93 43 00-0511	EA	15 Gallon Cupressocyparis leylandii - Leyland Cypress	71.44
32 93 43 00-0512	EA	4' To 5' Cupressocyparis leylandii - Leyland Cypress	31.25
32 93 43 00-0513	EA	5' To 6' Cupressocyparis leylandii - Leyland Cypress	40.18
32 93 43 00-0514	EA	6' To 7' Cupressocyparis leylandii - Leyland Cypress	62.51
32 93 43 00-0515	EA	24" Box Cupressocyparis leylandii - Leyland Cypress	151.81
32 93 43 00-0516	EA	1 Gallon Cupressus macrocarpa - Monterey Cypress	3.26
32 93 43 00-0517	EA	5 Gallon Cupressus macrocarpa - Monterey Cypress	14.66
32 93 43 00-0518	EA	15 Gallon Cupressus macrocarpa - Monterey Cypress	48.85
32 93 43 00-0519	EA	5 Gallon Cupressus sempervirens - Italian Cypress	16.81
32 93 43 00-0520	EA	15 Gallon Cupressus sempervirens - Italian Cypress	46.22
32 93 43 00-0521	EA	1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	4.94
32 93 43 00-0522	EA	2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	9.66
32 93 43 00-0523	EA	3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	11.98
32 93 43 00-0524	EA	5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper	14.08
32 93 43 00-0525	EA	1 Gallon Juniperus - Blue Sargent Juniper	4.94
32 93 43 00-0526	EA	2 Gallon Juniperus - Blue Sargent Juniper	9.66
32 93 43 00-0527	EA	3 Gallon Juniperus - Blue Sargent Juniper	11.98
32 93 43 00-0528	EA	5 Gallon Juniperus - Blue Sargent Juniper	14.08
32 93 43 00-0529	EA	5 Gallon Juniperus - Compact Pfitzer Juniper	14.08
32 93 43 00-0530	EA	15" To 18" Juniperus - Compact Pfitzer Juniper	15.23
32 93 43 00-0531	EA	18" To 24" Juniperus - Compact Pfitzer Juniper	18.38
32 93 43 00-0532	EA	2' To 2 1/2' Juniperus - Compact Pfitzer Juniper	27.31
32 93 43 00-0533	EA	2-1/2' To 3' Juniperus - Compact Pfitzer Juniper	31.62
32 93 43 00-0534	EA	5' To 6' Juniperus - Fairview Juniper	47.10
32 93 43 00-0535	EA	1 Gallon Juniperus - Hollywood Juniper	6.30
32 93 43 00-0536	EA	5 Gallon Juniperus - Hollywood Juniper	17.54
32 93 43 00-0537	EA	15 Gallon Juniperus - Hollywood Juniper	74.38
32 93 43 00-0538	EA	4' To 5' Juniperus - Hollywood Juniper	49.17
32 93 43 00-0539	EA	5' To 6' Juniperus - Hollywood Juniper	63.35
32 93 43 00-0540	EA	1 Gallon Juniperus - Parson's Juniper	4.94
32 93 43 00-0541	EA	2 Gallon Juniperus - Parson's Juniper	9.77
32 93 43 00-0542	EA	3 Gallon Juniperus - Parson's Juniper	12.08
32 93 43 00-0543	EA	5 Gallon Juniperus - Parson's Juniper	14.29
32 93 43 00-0544	EA	5 Gallon Juniperus - Skyrocket Juniper	17.65
32 93 43 00-0545	EA	15 Gallon Juniperus - Skyrocket Juniper	75.11
32 93 43 00-0546	EA	2' To 3' Juniperus - Skyrocket Juniper	26.47
32 93 43 00-0547	EA	3' To 4' Juniperus - Skyrocket Juniper	37.50
32 93 43 00-0548	EA	4' To 5' Juniperus - Skyrocket Juniper	49.69
32 93 43 00-0549	EA	5' To 6' Juniperus - Skyrocket Juniper	64.08
32 93 43 00-0550	EA	6' To 8' Juniperus - Skyrocket Juniper	82.78
32 93 43 00-0551	EA	1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	4.94
32 93 43 00-0552	EA	2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	9.72
32 93 43 00-0553	EA	3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	11.92
32 93 43 00-0554	EA	5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper	14.13
32 93 43 00-0555	EA	1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	4.94
32 93 43 00-0556	EA	2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	9.72
32 93 43 00-0557	EA	3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	11.92
32 93 43 00-0558	EA	5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper	14.13
32 93 43 00-0559	EA	3' Pinus sylvestris - Scotch Pine	45.89
32 93 43 00-0560	EA	4' Pinus sylvestris - Scotch Pine	63.70
32 93 43 00-0561	EA	5' Pinus sylvestris - Scotch Pine	89.41
32 93 43 00-0562	EA	6' Pinus sylvestris - Scotch Pine	124.05
32 93 43 00-0563	EA	7' Pinus sylvestris - Scotch Pine	151.99
32 93 43 00-0564	EA	8' Pinus sylvestris - Scotch Pine	214.57
32 93 43 00-0565	EA	9' Pinus sylvestris - Scotch Pine	272.41
32 93 43 00-0566	EA	10' Pinus sylvestris - Scotch Pine	314.32
32 93 43 00-0567	EA	12' Pinus sylvestris - Scotch Pine	370.19
32 93 43 00-0568	EA	14' Pinus sylvestris - Scotch Pine	419.09
32 93 43 00-0569	EA	16' Pinus sylvestris - Scotch Pine	488.93
32 93 43 00-0570	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine	4.94
32 93 43 00-0571	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine	17.54
32 93 43 00-0572	EA	15 Gallon Pinus thunbergiana - Japanese Black Pine	56.84
32 93 43 00-0573	EA	2' To 3' Pinus thunbergiana - Japanese Black Pine	24.06
32 93 43 00-0574	EA	3' To 4' Pinus thunbergiana - Japanese Black Pine	30.57
32 93 43 00-0575	EA	4' To 5' Pinus thunbergiana - Japanese Black Pine	45.91
32 93 43 00-0576	EA	5' To 6' Pinus thunbergiana - Japanese Black Pine	89.61
32 93 43 00-0577	EA	6' To 7' Pinus Thunbergiana - Japanese Black Pine	100.54
32 93 43 00-0578	EA	7' To 8' Pinus thunbergiana - Japanese Black Pine	125.65
32 93 43 00-0579	EA	6' Pinus flexilis & cvs - Limber Pine	174.62
32 93 43 00-0580	EA	7' Pinus flexilis & cvs - Limber Pine	202.56
32 93 43 00-0581	EA	8' Pinus flexilis & cvs - Limber Pine	251.45

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 43 00-0582	EA	9' Pinus flexilis & cvs - Limber Pine	307.33	
32 93 43 00-0583	EA	10' Pinus flexilis & cvs - Limber Pine	349.24	
32 93 43 00-0584	EA	1 Gallon Pinus mugo - Mugho Pine	6.51	
32 93 43 00-0585	EA	2 Gallon Pinus mugo - Mugho Pine	13.76	
32 93 43 00-0586	EA	3 Gallon Pinus mugo - Mugho Pine	17.23	
32 93 43 00-0587	EA	5 Gallon Pinus mugo - Mugho Pine	21.85	
32 93 43 00-0588	EA	12" To 15" Spread Pinus mugo - Mugho Pine	16.91	
32 93 43 00-0589	EA	15" To 18" Spread Pinus mugo - Mugho Pine	20.17	
32 93 43 00-0590	EA	18" To 24" Spread Pinus mugo - Mugho Pine	27.31	
32 93 43 00-0591	EA	2' To 2-1/2' Spread Pinus mugo - Mugho Pine	38.24	
32 93 43 00-0592	EA	2-1/2' To 3' Spread Pinus mugo - Mugho Pine	49.17	
32 93 43 00-0593	EA	3' To 3-1/2' Spread Pinus mugo - Mugho Pine	61.25	
32 93 43 00-0594	EA	3-1/2' To 4' Spread Pinus mugo - Mugho Pine	74.38	
32 93 43 00-0595	EA	6' Pinus nigra - Austrian Pine.....	174.62	
32 93 43 00-0596	EA	7' Pinus nigra - Austrian Pine.....	209.54	
32 93 43 00-0597	EA	8' Pinus nigra - Austrian Pine.....	272.41	
32 93 43 00-0598	EA	9' Pinus nigra - Austrian Pine.....	314.32	
32 93 43 00-0599	EA	10' Pinus nigra - Austrian Pine.....	370.19	
32 93 43 00-0600	EA	12' Pinus nigra - Austrian Pine.....	419.09	
32 93 43 00-0601	EA	14' Pinus nigra - Austrian Pine.....	467.98	
32 93 43 00-0602	EA	16' Pinus nigra - Austrian Pine.....	530.84	
32 93 43 00-0603	EA	1 Gallon Podocarpus - Chinese Podocarpus.....	3.26	
32 93 43 00-0604	EA	3 Gallon Podocarpus - Chinese Podocarpus.....	7.56	
32 93 43 00-0605	EA	7 Gallon Podocarpus - Chinese Podocarpus.....	21.85	
32 93 43 00-0606	EA	15 Gallon Podocarpus - Chinese Podocarpus.....	35.51	
32 93 43 00-0607	EA	4' To 5' Podocarpus - Chinese Podocarpus.....	54.63	
32 93 43 00-0608	EA	5' To 6' Sequoia sempervirens - Dawn Redwood	68.29	
32 93 43 00-0609	EA	6' To 8' Sequoia sempervirens - Dawn Redwood	92.19	
32 93 43 00-0610	EA	8' To 10' Sequoia sempervirens - Dawn Redwood	112.67	
32 93 43 00-0611	EA	3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	13.17	
32 93 43 00-0612	EA	3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae	24.65	
32 93 43 00-0613	EA	6' Cedrus decurrens - Incense Cedar	117.27	
32 93 43 00-0614	EA	8' Cedrus decurrens - Incense Cedar	242.58	
32 93 43 00-0615	EA	10' Cedrus decurrens - Incense Cedar	321.30	
32 93 43 00-0616	EA	12' Cedrus decurrens - Incense Cedar	425.72	
32 93 43 00-0617	EA	6' Melaleuca linariifolia - Flaxleaf Paperbark.....	337.36	
32 93 43 00-0618	EA	8' Melaleuca linariifolia - Flaxleaf Paperbark.....	449.82	
32 93 43 00-0619	EA	10' Melaleuca linariifolia - Flaxleaf Paperbark.....	562.28	
32 93 43 00-0620	EA	12' Melaleuca linariifolia - Flaxleaf Paperbark.....	674.73	
32 93 43 00-0621	EA	24" Box Melaleuca linariifolia - Flaxleaf Paperbark.....	334.15	
32 93 43 00-0622	EA	6' Melaleuca quinquenervia - Cajeput Tree	337.36	
32 93 43 00-0623	EA	8' Melaleuca quinquenervia - Cajeput Tree	449.82	
32 93 43 00-0624	EA	10' Melaleuca quinquenervia - Cajeput Tree	562.28	
32 93 43 00-0625	EA	12' Melaleuca quinquenervia - Cajeput Tree	674.73	
32 93 43 00-0626	EA	24" Box Melaleuca quinquenervia - Cajeput Tree	187.96	
32 93 43 00-0627	EA	30" Box Melaleuca quinquenervia - Cajeput Tree	473.92	
32 93 43 00-0628	EA	36" Box Melaleuca quinquenervia - Cajeput Tree	747.02	
32 93 43 00-0629	EA	4' Metrosideros excelsus - New Zealand Christmas Tree.....	99.60	
32 93 43 00-0630	EA	5' Metrosideros excelsus - New Zealand Christmas Tree.....	134.95	
32 93 43 00-0631	EA	6' Metrosideros excelsus - New Zealand Christmas Tree.....	229.73	
32 93 43 00-0632	EA	8' Metrosideros excelsus - New Zealand Christmas Tree.....	284.35	
32 93 43 00-0633	EA	24" Box Metrosideros excelsus - New Zealand Christmas Tree.....	189.20	
32 93 43 00-0634	EA	6' Pinus canariensis - Canary Island Pine.....	385.56	
32 93 43 00-0635	EA	8' Pinus canariensis - Canary Island Pine.....	514.08	
32 93 43 00-0636	EA	10' Pinus canariensis - Canary Island Pine.....	642.60	
32 93 43 00-0637	EA	12' Pinus canariensis - Canary Island Pine.....	771.12	
32 93 43 00-0638	EA	24" Box Pinus canariensis - Canary Island Pine.....	396.81	
32 93 43 00-0639	EA	6' Pinus pinea - Italian Stone Pine	385.56	
32 93 43 00-0640	EA	8' Pinus pinea - Italian Stone Pine	514.08	
32 93 43 00-0641	EA	10' Pinus pinea - Italian Stone Pine	642.60	
32 93 43 00-0642	EA	12' Pinus pinea - Italian Stone Pine	771.12	
32 93 43 00-0643	EA	6' Pittosporum undulatum - Victorian Box	212.06	
32 93 43 00-0644	EA	8' Pittosporum undulatum - Victorian Box	335.76	
32 93 43 00-0645	EA	10' Pittosporum undulatum - Victorian Box	441.79	
32 93 43 00-0646	EA	6' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	401.62	
32 93 43 00-0647	EA	8' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	530.14	
32 93 43 00-0648	EA	10' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	674.73	
32 93 43 00-0649	EA	12' Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	803.25	
32 93 43 00-0650	EA	24" Box Afrocarpus falcatus (Podocarpus gracilior) - African Fern Pine.....	187.96	
32 93 43 00-0651	EA	1 Gallon Podocarpus macrophyllus - Yew Pine.....	7.47	
32 93 43 00-0652	EA	3 Gallon Podocarpus macrophyllus - Yew Pine.....	17.51	
32 93 43 00-0653	EA	5 Gallon Podocarpus macrophyllus - Yew Pine.....	22.97	
32 93 43 00-0654	EA	15 Gallon Podocarpus macrophyllus - Yew Pine.....	99.60	
32 93 43 00-0655	EA	24" Box Podocarpus macrophyllus - Yew Pine.....	192.78	
32 93 43 00-0656	EA	24" Box Rhus lancea - African Sumac.....	198.40	
32 93 43 00-0657	EA	30" Box Rhus lancea - African Sumac.....	321.30	
32 93 43 00-0658	EA	8' Rhus lancea - African Sumac.....	481.95	
32 93 43 00-0659	EA	10' Rhus lancea - African Sumac.....	538.18	
32 93 43 00-0660	EA	12' Rhus lancea - African Sumac.....	642.60	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 43 00-0661**Palm And Subtropical Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0662	EA	4' To 5' Archontophoenix cunninghamiana - King Palm	107.48
32 93 43 00-0663	EA	6' To 8' Archontophoenix cunninghamiana - King Palm	167.20
32 93 43 00-0664	EA	8' To 10' Archontophoenix cunninghamiana - King Palm	214.97
32 93 43 00-0665	EA	10' To 12' Archontophoenix cunninghamiana - King Palm	286.62
32 93 43 00-0666	EA	4' To 5' Arecastrum romanzoffianum - Queen Palm	81.43
32 93 43 00-0667	EA	6' To 8' Arecastrum romanzoffianum - Queen Palm	114.00
32 93 43 00-0668	EA	8' To 10' Arecastrum romanzoffianum - Queen Palm	146.57
32 93 43 00-0669	EA	10' To 12' Arecastrum romanzoffianum - Queen Palm	179.14
32 93 43 00-0670	EA	12' To 14' Arecastrum romanzoffianum - Queen Palm	217.14
32 93 43 00-0671	EA	14' To 16' Arecastrum romanzoffianum - Queen Palm	271.42
32 93 43 00-0672	EA	3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm	228.00
32 93 43 00-0673	EA	5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm	358.28
32 93 43 00-0674	EA	3' To 4' Chamaerops humilis - European Fan Palm	195.43
32 93 43 00-0675	EA	5' To 6' Chamaerops humilis - European Fan Palm	260.57
32 93 43 00-0676	EA	7' To 8' Chamaerops humilis - European Fan Palm	607.99
32 93 43 00-0677	EA	9' To 10' Chamaerops humilis - European Fan Palm	1,042.27
32 93 43 00-0678	EA	12' To 16' Cocos nucifera - Coconut Palm	457.88
32 93 43 00-0679	EA	6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	152.00
32 93 43 00-0680	EA	8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	304.00
32 93 43 00-0681	EA	10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	390.85
32 93 43 00-0682	EA	12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut	542.85
32 93 43 00-0683	EA	4' To 5' Rhaps excelsa - Lady Palm	412.57
32 93 43 00-0684	EA	6' To 7' Rhaps excelsa - Lady Palm	586.28
32 93 43 00-0685	EA	8' To 9' Roystonea regia - Royal Palm	332.22
32 93 43 00-0686	EA	10' To 11' Roystonea regia - Royal Palm	406.05
32 93 43 00-0687	EA	12' To 13' Roystonea regia - Royal Palm	479.88
32 93 43 00-0688	EA	14' To 15' Roystonea regia - Royal Palm	553.71
32 93 43 00-0689	EA	16' To 17' Roystonea regia - Royal Palm	627.53
32 93 43 00-0690	EA	18' To 19' Roystonea regia - Royal Palm	701.36
32 93 43 00-0691	EA	20' To 21' Roystonea regia - Royal Palm	775.19
32 93 43 00-0692	EA	10' To 16' Sabal palmetto - Cabbage Palm	167.90
32 93 43 00-0693	EA	6' To 7' Thrinax morrisii - Key Thatch Palm	455.99
32 93 43 00-0694	EA	8' To 9' Thrinax morrisii - Key Thatch Palm	586.28
32 93 43 00-0695	EA	10' To 11' Thrinax morrisii - Key Thatch Palm	716.56
32 93 43 00-0696	EA	9' Ptychosperma elegans - Alexander Palm, Solitaire Palm	162.86
32 93 43 00-0697	EA	11' Ptychosperma elegans - Alexander Palm, Solitaire Palm	271.42
32 93 43 00-0698	EA	15' Ptychosperma elegans - Alexander Palm, Solitaire Palm	412.57
32 93 43 00-0699	EA	17' Ptychosperma elegans - Alexander Palm, Solitaire Palm	466.85
32 93 43 00-0700	EA	20' Ptychosperma elegans - Alexander Palm, Solitaire Palm	542.85
32 93 43 00-0701	EA	4' To 5' Bauninia blakeana - Hong Kong Orchid	466.85
32 93 43 00-0702	EA	6' Bauninia blakeana - Hong Kong Orchid	553.71
32 93 43 00-0703	EA	8' Bauninia blakeana - Hong Kong Orchid	738.28
32 93 43 00-0704	EA	10' Bauninia blakeana - Hong Kong Orchid	922.84
32 93 43 00-0705	EA	4' To 5' Acacia baileyana - Bailey Acacia	262.78
32 93 43 00-0706	EA	6' Acacia baileyana - Bailey Acacia	315.34
32 93 43 00-0707	EA	8' Acacia baileyana - Bailey Acacia	367.89
32 93 43 00-0708	EA	10' Acacia baileyana - Bailey Acacia	459.86
32 93 43 00-0709	EA	6' Agonis flexuosa - Peppermint Tree	157.67
32 93 43 00-0710	EA	8' Agonis flexuosa - Peppermint Tree	197.08
32 93 43 00-0711	EA	10' Agonis flexuosa - Peppermint Tree	236.50
32 93 43 00-0712	EA	24" Box Agonis flexuosa - Peppermint Tree	196.43
32 93 43 00-0713	EA	6' Bauhinia purpurea - Purple Orchid Tree	586.28
32 93 43 00-0714	EA	8' Bauhinia purpurea - Purple Orchid Tree	781.70
32 93 43 00-0715	EA	10' Bauhinia purpurea - Purple Orchid Tree	977.13
32 93 43 00-0716	EA	24" Box Bauhinia purpurea - Purple Orchid Tree	254.05
32 93 43 00-0717	EA	6' Bauhinia variegata candida - White Orchid Tree	651.42
32 93 43 00-0718	EA	8' Bauhinia variegata candida - White Orchid Tree	868.56
32 93 43 00-0719	EA	10' Bauhinia variegata candida - White Orchid Tree	1,085.70
32 93 43 00-0720	EA	6' Callistemon citrinus - Crimson or Lemon Bottle Brush	354.75
32 93 43 00-0721	EA	8' Callistemon citrinus - Crimson or Lemon Bottle Brush	473.00
32 93 43 00-0722	EA	10' Callistemon citrinus - Crimson or Lemon Bottle Brush	591.26
32 93 43 00-0723	EA	6' Eriobotrya deflexa - Bronze Loquat	586.28
32 93 43 00-0724	EA	8' Eriobotrya deflexa - Bronze Loquat	781.70
32 93 43 00-0725	EA	10' Eriobotrya deflexa - Bronze Loquat	977.13
32 93 43 00-0726	EA	6' Eucalyptus erythrocorys - Red Cap Gum	586.28
32 93 43 00-0727	EA	8' Eucalyptus erythrocorys - Red Cap Gum	781.70
32 93 43 00-0728	EA	10' Eucalyptus erythrocorys - Red Cap Gum	977.13
32 93 43 00-0729	EA	6' Eucalyptus torquata - Coral Gum	586.28
32 93 43 00-0730	EA	8' Eucalyptus torquata - Coral Gum	781.70
32 93 43 00-0731	EA	10' Eucalyptus torquata - Coral Gum	977.13
32 93 43 00-0732	EA	8' Fraxinus oxycarpa "Raywood" - Raywood Ash	367.89
32 93 43 00-0733	EA	10' Fraxinus oxycarpa "Raywood" - Raywood Ash	499.28
32 93 43 00-0734	EA	12' Fraxinus oxycarpa "Raywood" - Raywood Ash	617.53
32 93 43 00-0735	EA	1 Gallon Washingtonia robusta - Mexican Fan Palm	9.30
32 93 43 00-0736	EA	5 Gallon Washingtonia robusta - Mexican Fan Palm	28.94
32 93 43 00-0737	EA	15 Gallon Washingtonia robusta - Mexican Fan Palm	101.31
32 93 43 00-0738	EA	24" Box Washingtonia robusta - Mexican Fan Palm	330.80
32 93 43 00-0739	EA	36" Box Washingtonia robusta - Mexican Fan Palm	878.69



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0740	EA		6' Washingtonia robusta - Mexican Fan Palm.....	586.28	
32 93 43 00-0741	EA		8' Washingtonia robusta - Mexican Fan Palm.....	781.70	
32 93 43 00-0742	EA		10' Washingtonia robusta - Mexican Fan Palm.....	977.13	
32 93 43 00-0743	EA		12' Washingtonia robusta - Mexican Fan Palm.....	1,172.56	
32 93 43 00-0744	EA		6' Olea europaea - Olive "Fruitless".....	433.76	
32 93 43 00-0745	EA		8' Olea europaea - Olive "Fruitless".....	578.34	
32 93 43 00-0746	EA		10' Olea europaea - Olive "Fruitless".....	722.92	
32 93 43 00-0747	EA		12' Olea europaea - Olive "Fruitless".....	867.51	
32 93 43 00-0748	EA		24" Box Olea europaea - Olive "Fruitless".....	533.36	
32 93 43 00-0749	EA		6' Eucalyptus polyanthemos - Silver Dollar Gum.....	586.28	
32 93 43 00-0750	EA		8' Eucalyptus polyanthemos - Silver Dollar Gum.....	781.70	
32 93 43 00-0751	EA		10' Eucalyptus polyanthemos - Silver Dollar Gum.....	977.13	
32 93 43 00-0752	EA		6' Eucalyptus leucoxylon - White Ironbark.....	586.28	
32 93 43 00-0753	EA		8' Eucalyptus leucoxylon - White Ironbark.....	781.70	
32 93 43 00-0754	EA		10' Eucalyptus leucoxylon - White Ironbark.....	977.13	
32 93 43 00-0755	EA		12' Eucalyptus leucoxylon - White Ironbark.....	1,172.56	
32 93 43 00-0756	EA		6' Callistemon viminalis - Weeping Bottle Brush.....	354.75	
32 93 43 00-0757	EA		8' Callistemon viminalis - Weeping Bottle Brush.....	473.00	
32 93 43 00-0758	EA		10' Callistemon viminalis - Weeping Bottle Brush.....	591.26	
32 93 43 00-0759	EA		12' Callistemon viminalis - Weeping Bottle Brush.....	709.51	
32 93 43 00-0760	EA		6' Eucalyptus gunnii - Cider Gum.....	586.28	
32 93 43 00-0761	EA		8' Eucalyptus gunnii - Cider Gum.....	781.70	
32 93 43 00-0762	EA		10' Eucalyptus gunnii - Cider Gum.....	977.13	
32 93 43 00-0763	EA		6' Jacarandra acutifolia - Jacaranda.....	586.28	
32 93 43 00-0764	EA		8' Jacarandra acutifolia - Jacaranda.....	781.70	
32 93 43 00-0765	EA		10' Jacarandra acutifolia - Jacaranda.....	977.13	
32 93 43 00-0766	EA		24" Box Jacarandra acutifolia - Jacaranda.....	254.05	
32 93 43 00-0767	EA		5 Gallon Phoenix roebelenii - Pygmy Date Palm.....	34.30	
32 93 43 00-0768	EA		7 Gallon Phoenix roebelenii - Pygmy Date Palm.....	83.62	
32 93 43 00-0769	EA		15 Gallon Phoenix roebelenii - Pygmy Date Palm.....	126.50	
32 93 43 00-0770	EA		24" Box Phoenix roebelenii - Pygmy Date Palm.....	375.20	
32 93 43 00-0771	EA		5 Gallon Pistacia chinensis - Chinese Pistache.....	39.09	
32 93 43 00-0772	EA		15 Gallon Pistacia chinensis - Chinese Pistache.....	130.28	
32 93 43 00-0773	EA		24" Box Pistacia chinensis - Chinese Pistache.....	505.94	
32 93 43 00-0774	EA		36" Box Pistacia chinensis - Chinese Pistache.....	1,346.27	
32 93 43 00-0775	EA		48" Box Pistacia chinensis - Chinese Pistache.....	2,866.25	
32 93 43 00-0776	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	24.44	
32 93 43 00-0777	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Single.....	81.46	
32 93 43 00-0778	EA		24" Box Pyrus kawakamii - Evergreen Pear, Single.....	306.14	
32 93 43 00-0779	EA		30" Box Pyrus kawakamii - Evergreen Pear, Single.....	559.72	
32 93 43 00-0780	EA		36" Box Pyrus kawakamii - Evergreen Pear, Single.....	814.62	
32 93 43 00-0781	EA		5 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	24.44	
32 93 43 00-0782	EA		15 Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	86.72	
32 93 43 00-0783	EA		24" Box Pyrus kawakamii - Evergreen Pear, Multi.....	315.34	
32 93 43 00-0784	EA		30" Box Pyrus kawakamii - Evergreen Pear, Multi.....	559.72	
32 93 43 00-0785	EA		36" Box Pyrus kawakamii - Evergreen Pear, Multi.....	814.62	

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA		3" To 5" Bare Root Seedlings Tree Planting.....	1.45	
32 93 83 00-0003	EA		6" To 10" Bare Root Seedlings Tree Planting.....	2.31	
32 93 83 00-0004	EA		11" To 16" Bare Root Seedlings Tree Planting.....	2.89	
32 93 83 00-0005	EA		17" To 24" Bare Root Seedlings Tree Planting.....	4.62	
32 93 83 00-0006	EA		1 Gallon Container Tree Planting.....	23.14	
			For >10 To 25, Deduct	-1.16	
			For >25 To 50, Deduct	-2.89	
			For >50 To 100, Deduct	-4.63	
			For >100, Deduct	-6.94	
32 93 83 00-0007	EA		2 Gallon Container Tree Planting.....	32.39	
			For >10 To 25, Deduct	-1.62	
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-6.48	
			For >100, Deduct	-9.72	
32 93 83 00-0008	EA		3 Gallon Container Tree Planting.....	41.64	
			For >10 To 25, Deduct	-2.08	
			For >25 To 50, Deduct	-5.21	
			For >50 To 100, Deduct	-8.33	
			For >100, Deduct	-12.49	
32 93 83 00-0009	EA		5 Gallon Container Tree Planting.....	69.40	
			For >10 To 25, Deduct	-3.47	
			For >25 To 50, Deduct	-8.68	
			For >50 To 100, Deduct	-13.88	
			For >100, Deduct	-20.82	
32 93 83 00-0010	EA		7 Gallon Container Tree Planting.....	92.54	
			For >10 To 25, Deduct	-4.63	
			For >25 To 50, Deduct	-11.57	
			For >50 To 100, Deduct	-18.51	
			For >100, Deduct	-27.76	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0011	EA		10 Gallon Container Tree Planting.....	120.30	
			For>10 To 25, Deduct	-6.02	
			For>25 To 50, Deduct	-15.04	
			For>50 To 100, Deduct	-24.06	
			For>100, Deduct	-36.09	
32 93 83 00-0012	EA		15 Gallon Container Tree Planting.....	171.20	
			For>10 To 25, Deduct	-8.56	
			For>25 To 50, Deduct	-21.40	
			For>50 To 100, Deduct	-34.24	
			For>100, Deduct	-51.36	
32 93 83 00-0013	EA		20 Gallon Container Tree Planting.....	282.25	
			For>10 To 25, Deduct	-14.11	
			For>25 To 50, Deduct	-35.28	
			For>50 To 100, Deduct	-56.45	
			For>100, Deduct	-84.68	
32 93 83 00-0014	EA		25 Gallon Container Tree Planting.....	365.54	
			For>10 To 25, Deduct	-18.28	
			For>25 To 50, Deduct	-45.69	
			For>50 To 100, Deduct	-73.11	
			For>100, Deduct	-109.66	
32 93 83 00-0015	EA		30 Gallon Container Tree Planting.....	439.57	
			For>10 To 25, Deduct	-21.98	
			For>25 To 50, Deduct	-54.95	
			For>50 To 100, Deduct	-87.91	
			For>100, Deduct	-131.87	
32 93 83 00-0016	EA		45 Gallon Container Tree Planting.....	545.99	
			For>10 To 25, Deduct	-27.30	
			For>25 To 50, Deduct	-68.25	
			For>50 To 100, Deduct	-109.20	
			For>100, Deduct	-163.80	
32 93 83 00-0017	EA		65 Gallon Container Tree Planting.....	647.79	
			For>10 To 25, Deduct	-32.39	
			For>25 To 50, Deduct	-80.97	
			For>50 To 100, Deduct	-129.56	
			For>100, Deduct	-194.34	
32 93 83 00-0018	EA		6' Balled And Burlapped Tree Planting	231.36	
			For>10 To 25, Deduct	-11.57	
			For>25 To 50, Deduct	-28.92	
			For>50 To 100, Deduct	-46.27	
			For>100, Deduct	-69.41	
32 93 83 00-0019	EA		7' Balled And Burlapped Tree Planting	308.16	
			For>10 To 25, Deduct	-15.41	
			For>25 To 50, Deduct	-38.52	
			For>50 To 100, Deduct	-61.63	
			For>100, Deduct	-92.45	
32 93 83 00-0020	EA		8' Balled And Burlapped Tree Planting	347.03	
			For>10 To 25, Deduct	-17.35	
			For>25 To 50, Deduct	-43.38	
			For>50 To 100, Deduct	-69.41	
			For>100, Deduct	-104.11	
32 93 83 00-0021	EA		10' Balled And Burlapped Tree Planting	404.87	
			For>10 To 25, Deduct	-20.24	
			For>25 To 50, Deduct	-50.61	
			For>50 To 100, Deduct	-80.97	
			For>100, Deduct	-121.46	
32 93 83 00-0022	EA		12' Balled And Burlapped Tree Planting	541.37	
			For>10 To 25, Deduct	-27.07	
			For>25 To 50, Deduct	-67.67	
			For>50 To 100, Deduct	-108.27	
			For>100, Deduct	-162.41	
32 93 83 00-0023	EA		14' Balled And Burlapped Tree Planting	620.03	
			For>10 To 25, Deduct	-31.00	
			For>25 To 50, Deduct	-77.50	
			For>50 To 100, Deduct	-124.01	
			For>100, Deduct	-186.01	
32 93 83 00-0024	EA		16' Balled And Burlapped Tree Planting	751.90	
			For>10 To 25, Deduct	-37.60	
			For>25 To 50, Deduct	-93.99	
			For>50 To 100, Deduct	-150.38	
			For>100, Deduct	-225.57	
32 93 83 00-0025	EA		18' Balled And Burlapped Tree Planting	902.29	
			For>10 To 25, Deduct	-45.11	
			For>25 To 50, Deduct	-112.79	
			For>50 To 100, Deduct	-180.46	
			For>100, Deduct	-270.69	
32 93 83 00-0026	EA		20' Balled And Burlapped Tree Planting	1,041.10	
			For>10 To 25, Deduct	-52.06	
			For>25 To 50, Deduct	-130.14	
			For>50 To 100, Deduct	-208.22	
			For>100, Deduct	-312.33	
32 93 83 00-0027	EA		1-1/2" Caliper Balled And Burlapped Tree Planting	347.03	
			For>10 To 25, Deduct	-17.35	
			For>25 To 50, Deduct	-43.38	
			For>50 To 100, Deduct	-69.41	
			For>100, Deduct	-104.11	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0028	EA	2"	Caliper Balled And Burlapped Tree Planting	404.87	
			For >10 To 25, Deduct	-20.24	
			For >25 To 50, Deduct	-50.61	
			For >50 To 100, Deduct	-80.97	
			For >100, Deduct	-121.46	
32 93 83 00-0029	EA	2-1/2"	Caliper Balled And Burlapped Tree Planting	543.68	
			For >10 To 25, Deduct	-27.18	
			For >25 To 50, Deduct	-67.96	
			For >50 To 100, Deduct	-108.74	
			For >100, Deduct	-163.10	
32 93 83 00-0030	EA	3"	Caliper Balled And Burlapped Tree Planting	624.66	
			For >10 To 25, Deduct	-31.23	
			For >25 To 50, Deduct	-78.08	
			For >50 To 100, Deduct	-124.93	
			For >100, Deduct	-187.40	
32 93 83 00-0031	EA	3-1/2"	Caliper Balled And Burlapped Tree Planting	694.07	
			For >10 To 25, Deduct	-34.70	
			For >25 To 50, Deduct	-86.76	
			For >50 To 100, Deduct	-138.81	
			For >100, Deduct	-208.22	
32 93 83 00-0032	EA	4"	Caliper Balled And Burlapped Tree Planting	795.86	
			For >10 To 25, Deduct	-39.79	
			For >25 To 50, Deduct	-99.48	
			For >50 To 100, Deduct	-159.17	
			For >100, Deduct	-238.76	
32 93 83 00-0033 Planting Shrubs ^(32 93 83)					
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.					
32 93 83 00-0034	EA	1	Gallon Container Shrub Planting	19.67	
			For >10 To 25, Deduct	-0.98	
			For >25 To 50, Deduct	-2.46	
			For >50 To 100, Deduct	-3.93	
			For >100, Deduct	-5.90	
32 93 83 00-0035	EA	2	Gallon Container Shrub Planting	27.76	
			For >10 To 25, Deduct	-1.39	
			For >25 To 50, Deduct	-3.47	
			For >50 To 100, Deduct	-5.55	
			For >100, Deduct	-8.33	
32 93 83 00-0036	EA	3	Gallon Container Shrub Planting	34.71	
			For >10 To 25, Deduct	-1.74	
			For >25 To 50, Deduct	-4.34	
			For >50 To 100, Deduct	-6.94	
			For >100, Deduct	-10.41	
32 93 83 00-0037	EA	4	Gallon Container Shrub Planting	46.28	
			For >10 To 25, Deduct	-2.31	
			For >25 To 50, Deduct	-5.79	
			For >50 To 100, Deduct	-9.26	
			For >100, Deduct	-13.88	
32 93 83 00-0038	EA	5	Gallon Container Shrub Planting	57.83	
			For >10 To 25, Deduct	-2.89	
			For >25 To 50, Deduct	-7.23	
			For >50 To 100, Deduct	-11.57	
			For >100, Deduct	-17.35	
32 93 83 00-0039	EA	7	Gallon Container Shrub Planting	78.66	
			For >10 To 25, Deduct	-3.93	
			For >25 To 50, Deduct	-9.83	
			For >50 To 100, Deduct	-15.73	
			For >100, Deduct	-23.60	
32 93 83 00-0040	EA	10	Gallon Container Shrub Planting	104.11	
			For >10 To 25, Deduct	-5.21	
			For >25 To 50, Deduct	-13.01	
			For >50 To 100, Deduct	-20.82	
			For >100, Deduct	-31.23	
32 93 83 00-0041	EA	15	Gallon Container Shrub Planting	143.44	
			For >10 To 25, Deduct	-7.17	
			For >25 To 50, Deduct	-17.93	
			For >50 To 100, Deduct	-28.69	
			For >100, Deduct	-43.03	
32 93 83 00-0042	EA	20	Gallon Container Shrub Planting	240.61	
			For >10 To 25, Deduct	-12.03	
			For >25 To 50, Deduct	-30.08	
			For >50 To 100, Deduct	-48.12	
			For >100, Deduct	-72.18	
32 93 83 00-0043	EA	25	Gallon Container Shrub Planting	308.16	
			For >10 To 25, Deduct	-15.41	
			For >25 To 50, Deduct	-38.52	
			For >50 To 100, Deduct	-61.63	
			For >100, Deduct	-92.45	
32 93 83 00-0044	EA	15"	Balled And Burlapped Shrub Planting	64.78	
			For >10 To 25, Deduct	-3.24	
			For >25 To 50, Deduct	-8.10	
			For >50 To 100, Deduct	-12.96	
			For >100, Deduct	-19.43	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting	67.09	
For>10 To 25, Deduct	-3.35	
For>25 To 50, Deduct	-8.39	
For>50 To 100, Deduct	-13.42	
For>100, Deduct	-20.13	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting	74.04	
For>10 To 25, Deduct	-3.70	
For>25 To 50, Deduct	-9.26	
For>50 To 100, Deduct	-14.81	
For>100, Deduct	-22.21	
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting	74.04	
For>10 To 25, Deduct	-3.70	
For>25 To 50, Deduct	-9.26	
For>50 To 100, Deduct	-14.81	
For>100, Deduct	-22.21	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting	80.97	
For>10 To 25, Deduct	-4.05	
For>25 To 50, Deduct	-10.12	
For>50 To 100, Deduct	-16.19	
For>100, Deduct	-24.29	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting	85.60	
For>10 To 25, Deduct	-4.28	
For>25 To 50, Deduct	-10.70	
For>50 To 100, Deduct	-17.12	
For>100, Deduct	-25.68	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting	92.54	
For>10 To 25, Deduct	-4.63	
For>25 To 50, Deduct	-11.57	
For>50 To 100, Deduct	-18.51	
For>100, Deduct	-27.76	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting	138.82	
For>10 To 25, Deduct	-6.94	
For>25 To 50, Deduct	-17.35	
For>50 To 100, Deduct	-27.76	
For>100, Deduct	-41.65	
32 93 83 00-0052 EA 6' Balled And Burlapped Shrub Planting	196.65	
For>10 To 25, Deduct	-9.83	
For>25 To 50, Deduct	-24.58	
For>50 To 100, Deduct	-39.33	
For>100, Deduct	-59.00	
32 93 83 00-0053 EA 7' Balled And Burlapped Shrub Planting	261.43	
For>10 To 25, Deduct	-13.07	
For>25 To 50, Deduct	-32.68	
For>50 To 100, Deduct	-52.29	
For>100, Deduct	-78.43	
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting	296.13	
For>10 To 25, Deduct	-14.81	
For>25 To 50, Deduct	-37.02	
For>50 To 100, Deduct	-59.23	
For>100, Deduct	-88.84	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting	319.27	
For>10 To 25, Deduct	-15.96	
For>25 To 50, Deduct	-39.91	
For>50 To 100, Deduct	-63.85	
For>100, Deduct	-95.78	
32 93 83 00-0056 EA 10' Balled And Burlapped Shrub Planting	347.03	
For>10 To 25, Deduct	-17.35	
For>25 To 50, Deduct	-43.38	
For>50 To 100, Deduct	-69.41	
For>100, Deduct	-104.11	
32 93 83 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 83)		
See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058 EA 2-1/4" Diameter Potted Groundcover And Flower Planting	1.93	
For>10 To 25, Deduct	-0.10	
For>25 To 50, Deduct	-0.24	
For>50 To 100, Deduct	-0.39	
For>100, Deduct	-0.58	
32 93 83 00-0059 EA 3" Diameter Potted Groundcover And Flower Planting	2.20	
For>10 To 25, Deduct	-0.11	
For>25 To 50, Deduct	-0.28	
For>50 To 100, Deduct	-0.44	
For>100, Deduct	-0.66	
32 93 83 00-0060 EA 4" Diameter Potted Groundcover And Flower Planting	2.57	
For>10 To 25, Deduct	-0.13	
For>25 To 50, Deduct	-0.32	
For>50 To 100, Deduct	-0.51	
For>100, Deduct	-0.77	
32 93 83 00-0061 EA 5-1/2" Diameter Potted Groundcover And Flower Planting	3.09	
For>10 To 25, Deduct	-0.15	
For>25 To 50, Deduct	-0.39	
For>50 To 100, Deduct	-0.62	
For>100, Deduct	-0.93	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0062	EA		6" Diameter Potted Groundcover And Flower Planting	3.86	
			For >10 To 25, Deduct	-0.19	
			For >25 To 50, Deduct	-0.48	
			For >50 To 100, Deduct	-0.77	
			For >100, Deduct	-1.16	
32 93 83 00-0063	EA		8" Diameter Potted Groundcover And Flower Planting	5.78	
			For >10 To 25, Deduct	-0.29	
			For >25 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.16	
			For >100, Deduct	-1.73	
32 93 83 00-0064	EA		1 Gallon Container Groundcover And Flower Planting	18.50	
			For >10 To 25, Deduct	-0.93	
			For >25 To 50, Deduct	-2.31	
			For >50 To 100, Deduct	-3.70	
			For >100, Deduct	-5.55	
32 93 83 00-0065	EA		2 Gallon Container Groundcover And Flower Planting	25.45	
			For >10 To 25, Deduct	-1.27	
			For >25 To 50, Deduct	-3.18	
			For >50 To 100, Deduct	-5.09	
			For >100, Deduct	-7.64	
32 93 83 00-0066	EA		3 Gallon Container Groundcover And Flower Planting	32.39	
			For >10 To 25, Deduct	-1.62	
			For >25 To 50, Deduct	-4.05	
			For >50 To 100, Deduct	-6.48	
			For >100, Deduct	-9.72	
32 93 83 00-0067	EA		4 Gallon Container Groundcover And Flower Planting	41.64	
			For >10 To 25, Deduct	-2.08	
			For >25 To 50, Deduct	-5.21	
			For >50 To 100, Deduct	-8.33	
			For >100, Deduct	-12.49	
32 93 83 00-0068	EA		5 Gallon Container Groundcover And Flower Planting	50.90	
			For >10 To 25, Deduct	-2.55	
			For >25 To 50, Deduct	-6.36	
			For >50 To 100, Deduct	-10.18	
			For >100, Deduct	-15.27	
32 93 83 00-0069	EA		7 Gallon Container Groundcover And Flower Planting	69.40	
			For >10 To 25, Deduct	-3.47	
			For >25 To 50, Deduct	-8.68	
			For >50 To 100, Deduct	-13.88	
			For >100, Deduct	-20.82	
32 93 83 00-0070	EA		Bulb Planting.....	1.16	
			For >10 To 25, Deduct	-0.06	
			For >25 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.23	
			For >100, Deduct	-0.35	
32 93 83 00-0071	EA		Flats Of 24 Groundcover And Flower Planting	32.39	
			For >10 To 25, Deduct	-1.62	
			For >25, Deduct	-4.05	
32 93 83 00-0072	EA		Flats Of 36 Groundcover And Flower Planting	45.95	
			For >10 To 25, Deduct	-2.30	
			For >25, Deduct	-5.74	
32 93 83 00-0073	EA		Flats Of 48 Groundcover And Flower Planting	61.16	
			For >10 To 25, Deduct	-3.06	
			For >25, Deduct	-7.65	

32 93 83 00-0074

Tree Pits (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch. See CSI section 32 91 13 16-0000 for appropriate mulch or decorative topping, 32 91 13 16-0001 for appropriate mulch or decorative topping.

32 93 83 00-0075	EA	2' x 1-1/4' Deep Tree Pit	135.98
32 93 83 00-0076	EA	2' x 2-1/2' Deep Tree Pit	203.93
32 93 83 00-0077	EA	2-1/2' x 1-1/2' Deep Tree Pit	262.94
32 93 83 00-0078	EA	2-1/2' x 3' Deep Tree Pit	394.33
32 93 83 00-0079	EA	3' x 1-3/4' Deep Tree Pit	406.73
32 93 83 00-0080	EA	3' x 3-1/2' Deep Tree Pit	607.03
32 93 83 00-0081	EA	3-1/2' x 1-3/4' Deep Tree Pit	498.91
32 93 83 00-0082	EA	3-1/2' x 3-1/2' Deep Tree Pit	747.36
32 93 83 00-0083	EA	4' x 2' Deep Tree Pit	596.56
32 93 83 00-0084	EA	4' x 4' Deep Tree Pit	894.37
32 93 83 00-0085	EA	4-1/2' x 2' Deep Tree Pit	859.67
32 93 83 00-0086	EA	4-1/2' x 4' Deep Tree Pit	1,291.94
32 93 83 00-0087	EA	5' x 2-1/4' Deep Tree Pit	1,143.45
32 93 83 00-0088	EA	5' x 4-1/2' Deep Tree Pit	1,703.62
32 93 83 00-0089	EA	6' x 2-1/2' Deep Tree Pit	1,621.58
32 93 83 00-0090	EA	6' x 5' Deep Tree Pit	2,428.91
32 93 83 00-0091	EA	7' x 3' Deep Tree Pit	2,732.32
32 93 83 00-0092	EA	7' x 6' Deep Tree Pit	4,119.51
32 93 83 00-0093	EA	8' x 3-1/4' Deep Tree Pit	3,758.93
32 93 83 00-0094	EA	8' x 6-1/2' Deep Tree Pit	5,636.07

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 94 Planting Accessories (32 90)**32 94 13 Landscape Edging** (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF	6" Poly/Vinyl Landscape Edging With Non-Round Top.....	6.08	1.18
		For >2,000 To 5,000 LF, Deduct	-0.37	
		For >5,000 LF, Deduct	-0.74	
32 94 13 00-0003	LF	5" Polyethylene Landscape Edging With Round Top.....	3.53	1.18
		For >2,000 To 5,000 LF, Deduct	-0.12	
		For >5,000 LF, Deduct	-0.23	
32 94 13 00-0004	LF	5-1/2" Polyethylene Landscape Edging With Round Top	3.59	1.18
		For >2,000 To 5,000 LF, Deduct	-0.12	
		For >5,000 LF, Deduct	-0.25	
32 94 13 00-0005	LF	5" Polyethylene Landscape Edging With Corrugated Sides And Round Top	3.63	1.18
		For >2,000 To 5,000 LF, Deduct	-0.13	
		For >5,000 LF, Deduct	-0.25	
32 94 13 00-0006	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	10.38	2.82
		For >1,000 LF, Deduct	-1.19	
32 94 13 00-0007	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	11.36	2.82
		For >1,000 LF, Deduct	-1.43	
32 94 13 00-0008	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	11.43	2.82
		For >1,000 LF, Deduct	-1.45	
32 94 13 00-0009	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	13.13	2.91
		For >1,000 LF, Deduct	-1.84	
32 94 13 00-0010	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	14.34	2.91
		For >1,000 LF, Deduct	-2.14	
32 94 13 00-0011	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging.....	14.32	2.91
		For >1,000 LF, Deduct	-2.14	
32 94 13 00-0012	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	11.67	3.00
		For >1,000 LF, Deduct	-1.43	
32 94 13 00-0013	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	13.02	3.00
		For >1,000 LF, Deduct	-1.77	
32 94 13 00-0014	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	13.15	3.00
		For >1,000 LF, Deduct	-1.80	
32 94 13 00-0015	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	14.82	3.10
		For >1,000 LF, Deduct	-2.18	
32 94 13 00-0016	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	16.17	3.10
		For >1,000 LF, Deduct	-2.52	
32 94 13 00-0017	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	16.28	3.10
		For >1,000 LF, Deduct	-2.55	
32 94 13 00-0018	LF	1/8" x 4" Powder Coated Steel Landscape Edging	11.06	2.91
		For >1,000 LF, Deduct	-1.31	
32 94 13 00-0019	LF	3/16" x 4" Powder Coated Steel Landscape Edging	13.04	2.91
		For >1,000 LF, Deduct	-1.80	
32 94 13 00-0020	LF	1/4" x 5" Powder Coated Steel Landscape Edging	18.36	2.91
		For >1,000 LF, Deduct	-3.13	
32 94 13 00-0021	LF	1/2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	8.24	2.82
		For >1,000 LF, Deduct	-0.65	
32 94 13 00-0022	LF	1" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	9.42	2.82
		For >1,000 LF, Deduct	-0.95	
32 94 13 00-0023	LF	1" x 6", Recycled Plastic Landscape Edging (Bend-A-Board).....	10.45	2.82
		For >1,000 LF, Deduct	-1.21	
32 94 13 00-0024	LF	2" x 4", Recycled Plastic Landscape Edging (Bend-A-Board).....	10.67	2.82
		For >1,000 LF, Deduct	-1.26	

32 94 13 00-0025 Concrete Band, Cast In Place (32 94 13)

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

32 94 13 00-0026	LF	6" x 4" Concrete Band.....	20.31	10.37
		Note: Excludes base course.		
		For Up To 20, Add	12.19	
		For >20 To 50, Add	6.91	
		For >50 To 100, Add	2.64	
		For >500 To 1,000, Deduct	-2.64	
		For >1,000, Deduct	-4.47	
32 94 13 00-0027	LF	6" x 6" Concrete Band.....	24.12	12.19
		Note: Excludes base course.		
		For Up To 20, Add	14.57	
		For >20 To 50, Add	8.26	
		For >50 To 100, Add	3.16	
		For >500 To 1,000, Deduct	-3.16	
		For >1,000, Deduct	-5.34	
32 94 13 00-0028	LF	8" x 6" Concrete Band.....	27.74	140.18
		Note: Excludes base course.		
		For Up To 20, Add	16.82	
		For >20 To 50, Add	9.54	
		For >50 To 100, Add	3.64	
		For >500 To 1,000, Deduct	-3.64	
		For >1,000, Deduct	-6.16	



Exterior Improvements			32
Planting			32 90
Planting Accessories			32 94

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 13 00-0029	LF	10" x 6" Concrete Band	30.73	152.37	
		Note: Excludes base course.			
		For Up To 20, Add	18.64		
		For >20 To 50, Add	10.57		
		For >50 To 100, Add	4.04		
		For >500 To 1,000, Deduct	-4.04		
		For >1,000, Deduct	-6.82		
32 94 13 00-0030	LF	12" x 6" Concrete Band	31.91	15.85	
		Note: Excludes base course.			
		For Up To 20, Add	19.18		
		For >20 To 50, Add	10.87		
		For >50 To 100, Add	4.16		
		For >500 To 1,000, Deduct	-4.16		
		For >1,000, Deduct	-7.03		

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001	LF	1" x 4" Redwood Edging	5.83	1.96	
32 94 16 00-0002	LF	2" x 4" Redwood Edging	8.01	2.94	
32 94 16 00-0003	LF	4" x 6" Pressure Treated Hardwood	11.07	3.92	
32 94 16 00-0004	LF	6" x 6" Pressure Treated Hardwood	14.40	4.90	
32 94 16 00-0005	LF	6" x 8" Pressure Treated Hardwood	16.78	5.76	
32 94 16 00-0006	LF	1" x 4" Pressure Treated Pine	4.46	1.96	
32 94 16 00-0007	LF	2" x 4" Pressure Treated Pine	6.76	2.94	
32 94 16 00-0008	LF	4" x 6" Pressure Treated Pine	10.53	3.79	
32 94 16 00-0009	LF	6" x 6" Pressure Treated Pine	14.29	4.90	
32 94 16 00-0010	LF	6" x 8" Pressure Treated Pine	17.42	5.76	
32 94 16 00-0011	LF	6" x 8" Railroad Ties	16.78	5.53	
32 94 16 00-0012	LF	7" x 9" Railroad Ties	20.22	6.95	

32 94 23 Plant Protection (32 94)

32 94 23 00-0001	SF	Tree Trunk Protection - Hardware Cloth 1/4" Mesh, 23 Gauge	2.65		

32 94 43 Tree Grates (32 94)**32 94 43 00-0001 Tree Grates With Frames (32 94 43)****32 94 43 00-0002 Round Cast Iron Tree Grates With Frames (32 94 43 00-0001)**

32 94 43 00-0003	EA	32" Diameter, 100 To 150 Lb., Cast Iron Tree Grate With Frame	1,103.34	73.23	
32 94 43 00-0004	EA	36" Diameter, 125 To 175 Lb., Cast Iron Tree Grate With Frame	1,277.30	73.23	
32 94 43 00-0005	EA	42" Diameter, 150 To 200 Lb., Cast Iron Tree Grate With Frame	1,543.58	97.63	
32 94 43 00-0006	EA	48" Diameter, 200 To 250 Lb., Cast Iron Tree Grate With Frame	1,922.24	97.63	
32 94 43 00-0007	EA	54" Diameter, 300 To 350 Lb., Cast Iron Tree Grate With Frame	2,464.86	122.04	
32 94 43 00-0008	EA	60" Diameter, Up To 350 Lb., Cast Iron Tree Grate With Frame	2,585.31	146.44	
32 94 43 00-0009	EA	60" Diameter, >350 Lb., Cast Iron Tree Grate With Frame	2,848.83	146.44	
32 94 43 00-0010	EA	72" Diameter, Up To 550 Lb., Cast Iron Tree Grate With Frame	3,792.15	207.46	
32 94 43 00-0011	EA	72" Diameter, >500 To 550 Lb., Cast Iron Tree Grate With Frame	3,945.66	207.46	
32 94 43 00-0012	EA	72" Diameter, >600 To 650 Lb., Cast Iron Tree Grate With Frame	4,073.59	207.46	
32 94 43 00-0013	EA	72" Diameter, >650 To 700 Lb., Cast Iron Tree Grate With Frame	4,175.93	207.46	
32 94 43 00-0014	EA	72" Diameter, >700 Lb., Cast Iron Tree Grate With Frame	4,252.68	207.46	
32 94 43 00-0015	EA	93" Diameter, 950 To 1,000 Lb., Cast Iron Tree Grate With Frame	4,663.62	244.08	

32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94 43 00-0017	EA	30" x 30", 75 To 125 Lb., Cast Iron Tree Grate With Frame	1,016.33	73.23	
32 94 43 00-0018	EA	36" x 36", 100 To 150 Lb., Cast Iron Tree Grate With Frame	1,233.80	73.23	
32 94 43 00-0019	EA	48" x 48", Up To 200 Lb., Cast Iron Tree Grate With Frame	1,830.35	122.04	
32 94 43 00-0020	EA	48" x 48", >200 To 250 Lb., Cast Iron Tree Grate With Frame	2,162.96	122.04	
32 94 43 00-0021	EA	48" x 48", >250 To 300 Lb., Cast Iron Tree Grate With Frame	2,469.98	122.04	
32 94 43 00-0022	EA	48" x 48", >300 To 350 Lb., Cast Iron Tree Grate With Frame	2,751.41	122.04	
32 94 43 00-0023	EA	48" x 48", >350 To 400 Lb., Cast Iron Tree Grate With Frame	3,007.26	122.04	
32 94 43 00-0024	EA	48" x 48", >400 Lb., Cast Iron Tree Grate With Frame	3,237.52	122.04	
32 94 43 00-0025	EA	60" x 60", Up To 400 Lb., Cast Iron Tree Grate With Frame	3,104.89	170.85	
32 94 43 00-0026	EA	60" x 60", >400 To 450 Lb., Cast Iron Tree Grate With Frame	3,335.15	170.85	
32 94 43 00-0027	EA	60" x 60", >450 To 500 Lb., Cast Iron Tree Grate With Frame	3,539.83	170.85	
32 94 43 00-0028	EA	60" x 60", >500 To 550 Lb., Cast Iron Tree Grate With Frame	3,718.93	170.85	
32 94 43 00-0029	EA	60" x 60", >550 To 600 Lb., Cast Iron Tree Grate With Frame	3,872.44	170.85	
32 94 43 00-0030	EA	60" x 60", >600 Lb., Cast Iron Tree Grate With Frame	4,000.37	170.85	
32 94 43 00-0031	EA	72" x 72", Up To 550 Lb., Cast Iron Tree Grate With Frame	3,792.15	207.46	
32 94 43 00-0032	EA	72" x 72", >550 To 600 Lb., Cast Iron Tree Grate With Frame	3,945.66	207.46	
32 94 43 00-0033	EA	72" x 72", >600 To 650 Lb., Cast Iron Tree Grate With Frame	4,073.59	207.46	
32 94 43 00-0034	EA	72" x 72", >650 To 700 Lb., Cast Iron Tree Grate With Frame	4,175.93	207.46	
32 94 43 00-0035	EA	72" x 72", >700 To 750 Lb., Cast Iron Tree Grate With Frame	4,252.68	207.46	
32 94 43 00-0036	EA	72" x 72", >750 To 800 Lb., Cast Iron Tree Grate With Frame	4,303.85	207.46	
32 94 43 00-0037	EA	72" x 72", >800 To 850 Lb., Cast Iron Tree Grate With Frame	4,329.43	207.46	
32 94 43 00-0038	EA	72" x 72", >850 Lb., Cast Iron Tree Grate With Frame	4,355.02	207.46	

32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)

32 94 43 00-0040	EA	36" x 48", 200 To 250 Lb., Cast Iron Tree Grate With Frame	1,922.24	97.63	

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0041	EA		36" x 60", 200 To 250 Lb., Cast Iron Tree Grate With Frame	1,960.61	97.63
32 94 43 00-0042	EA		36" x 72", 275 To 325 Lb., Cast Iron Tree Grate With Frame	2,395.78	122.04
32 94 43 00-0043	EA		48" x 72", Up To 350 Lb., Cast Iron Tree Grate With Frame	2,823.05	122.04
32 94 43 00-0044	EA		48" x 72", >350 Lb., Cast Iron Tree Grate With Frame	3,007.26	122.04
32 94 43 00-0045	EA		60" x 84", 700 To 750 Lb., Cast Iron Tree Grate With Frame	4,022.41	207.46
32 94 49 Plant and Tree Accessories (32 94)					
32 94 49 00-0001			Tree Guying (32 94 49)		
32 94 49 00-0002			Tree Guying, Stakes (32 94 49 00-0001)		
			Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.		
32 94 49 00-0003	EA		Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap	25.75	
32 94 49 00-0004	EA		Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap	45.53	
32 94 49 00-0005	EA		Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap	78.30	
32 94 49 00-0006			Tree Guying, Anchors (32 94 49 00-0001)		
			Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.		
32 94 49 00-0007	EA		Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope	108.74	
32 94 49 00-0008	EA		Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope	146.74	
32 94 49 00-0009	EA		Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope	188.15	
32 94 49 00-0010	EA		Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope	242.75	
32 94 49 00-0011			Tree Wrap (32 94 49)		
32 94 49 00-0012	EA		Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree	7.05	
32 94 49 00-0013	EA		Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree	11.78	
32 94 49 00-0014	EA		Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree	23.41	
32 94 49 00-0015	EA		Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree	36.46	
32 94 49 00-0016			Tree Guards (32 94 49)		
32 94 49 00-0017	EA		3' Preformed Plastic Tree Guard	11.71	
32 94 49 00-0018	EA		2' Preformed Plastic Tree Guard	10.73	
32 94 49 00-0019			Stake Out Tree And Shrub Locations (32 94 49)		
			Note: When no design available.		
32 94 49 00-0020	EA		Stake Out Trees Or Shrubs	7.36	
32 94 49 00-0021			Root Barriers (32 94 49)		
32 94 49 00-0022	EA		12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	12.95	
32 94 49 00-0023	EA		18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	18.47	
32 94 49 00-0024	EA		24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	21.85	
32 94 49 00-0025	EA		36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	41.25	
32 94 49 00-0026	EA		48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner	57.11	
32 96 Transplanting (32 90)					
			See CSI section 32 94 49 00-0001 for guying.		
32 96 33			Shrub Transplanting (32 96)		
			Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 33 00-0001			Moving Shrubs On Site, Relocate (32 96 33)		
			Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.		
32 96 33 00-0002	EA		Up To 18" Root Ball, Move Shrubs On Site	79.25	
			For >25 To 50, Deduct	-7.93	
			For >50, Deduct	-11.89	
32 96 33 00-0003	EA		>18" To 24" Root Ball, Move Shrubs On Site	107.22	
			For >25 To 50, Deduct	-10.72	
			For >50, Deduct	-16.08	
32 96 33 00-0004	EA		>24" To 30" Root Ball, Move Shrubs On Site	181.80	
			For >25 To 50, Deduct	-18.18	
			For >50, Deduct	-27.27	
32 96 33 00-0005	EA		>30" To 36" Root Ball, Move Shrubs On Site	279.69	
			For >25 To 50, Deduct	-27.97	
			For >50, Deduct	-41.95	
32 96 43			Tree Transplanting (32 96)		
			Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 43 00-0001			Moving Trees On Site, Relocate (32 96 43)		
			Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0915 for crane lifting equipment, 32 94 49 00-0001 for guying.		



Exterior Improvements		32
Planting		32 90
Transplanting		32 96

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 43 00-0002	EA		Up To 24" Root Ball, Move Trees On Site	310.14	
			For >5 To 10, Deduct	-15.51	
			For >10 To 20, Deduct	-31.01	
			For >20, Deduct	-46.52	
32 96 43 00-0003	EA		>24" To 30" Root Ball, Move Trees On Site.....	425.34	
			For >5 To 10, Deduct	-21.27	
			For >10 To 20, Deduct	-42.53	
			For >20, Deduct	-63.80	
32 96 43 00-0004	EA		>30" To 36" Root Ball, Move Trees On Site.....	689.21	
			For >5 To 10, Deduct	-34.46	
			For >10 To 20, Deduct	-68.92	
			For >20, Deduct	-103.38	
32 96 43 00-0005	EA		>36" To 48" Root Ball, Move Trees On Site.....	1,145.15	
			For >5 To 10, Deduct	-57.26	
			For >10 To 20, Deduct	-114.52	
			For >20, Deduct	-171.77	
32 96 43 00-0006	EA		>48" To 60" Root Ball, Move Trees On Site.....	1,860.86	
			For >5 To 10, Deduct	-93.04	
			For >10 To 20, Deduct	-186.09	
			For >20, Deduct	-279.13	
32 96 43 00-0007	EA		>60" To 72" Root Ball, Move Trees On Site.....	2,401.10	
			For >5 To 10, Deduct	-120.06	
			For >10 To 20, Deduct	-240.11	
			For >20, Deduct	-360.17	
32 96 43 00-0008	EA		>72" To 84" Root Ball, Move Trees On Site.....	3,101.43	
			For >5 To 10, Deduct	-155.07	
			For >10 To 20, Deduct	-310.14	
			For >20, Deduct	-465.21	
32 96 43 00-0009	EA		>84" To 96" Root Ball, Move Trees On Site.....	3,721.71	
			For >5 To 10, Deduct	-186.09	
			For >10 To 20, Deduct	-372.17	
			For >20, Deduct	-558.26	
32 96 43 00-0010	EA		>96" To 120" Root Ball, Move Trees On Site.....	4,229.22	
			For >5 To 10, Deduct	-211.46	
			For >10 To 20, Deduct	-422.92	
			For >20, Deduct	-634.38	

END OF SECTION 32

32	32	Exterior Improvements
	32 90	Planting
	32 96	Transplanting



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Water Utilities		33 01 10	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

33 01 Operation and Maintenance of Utilities (33)

33 01 10 Operation and Maintenance of Water Utilities (33 01)

33 01 10 54 Cleaning of Water Utility Piping (33 01 10)

See CSI section 33 01 30 41-0012 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems (33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization (33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	1,079.67
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	539.84
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.41
		For >250 To 500, Deduct	-0.02
		For >500 To 1,000, Deduct	-0.04
		For >1,000 To 2,000, Deduct	-0.06
		For >2,000 To 5,000, Deduct	-0.08
		For >5,000, Deduct	-0.10
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.63
		For >250 To 500, Deduct	-0.03
		For >500 To 1,000, Deduct	-0.06
		For >1,000 To 2,000, Deduct	-0.09
		For >2,000 To 5,000, Deduct	-0.13
		For >5,000, Deduct	-0.16
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.81
		For >250 To 500, Deduct	-0.04
		For >500 To 1,000, Deduct	-0.08
		For >1,000 To 2,000, Deduct	-0.12
		For >2,000 To 5,000, Deduct	-0.16
		For >5,000, Deduct	-0.20
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	0.96
		For >250 To 500, Deduct	-0.05
		For >500 To 1,000, Deduct	-0.10
		For >1,000 To 2,000, Deduct	-0.14
		For >2,000 To 5,000, Deduct	-0.19
		For >5,000, Deduct	-0.24
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.24
		For >250 To 500, Deduct	-0.06
		For >500 To 1,000, Deduct	-0.12
		For >1,000 To 2,000, Deduct	-0.19
		For >2,000 To 5,000, Deduct	-0.25
		For >5,000, Deduct	-0.31
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.41
		For >250 To 500, Deduct	-0.07
		For >500 To 1,000, Deduct	-0.14
		For >1,000 To 2,000, Deduct	-0.21
		For >2,000 To 5,000, Deduct	-0.28
		For >5,000, Deduct	-0.35
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.61
		For >250 To 500, Deduct	-0.08
		For >500 To 1,000, Deduct	-0.16
		For >1,000 To 2,000, Deduct	-0.24
		For >2,000 To 5,000, Deduct	-0.32
		For >5,000, Deduct	-0.40
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.91
		For >250 To 500, Deduct	-0.10
		For >500 To 1,000, Deduct	-0.19
		For >1,000 To 2,000, Deduct	-0.29
		For >2,000 To 5,000, Deduct	-0.38
		For >5,000, Deduct	-0.48
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.45
		For >250 To 500, Deduct	-0.12
		For >500 To 1,000, Deduct	-0.25
		For >1,000 To 2,000, Deduct	-0.37
		For >2,000 To 5,000, Deduct	-0.49
		For >5,000, Deduct	-0.61
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.60
		For >250 To 500, Deduct	-0.18
		For >500 To 1,000, Deduct	-0.36
		For >1,000 To 2,000, Deduct	-0.54
		For >2,000 To 5,000, Deduct	-0.72
		For >5,000, Deduct	-0.90
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	4.99
		For >250 To 500, Deduct	-0.25
		For >500 To 1,000, Deduct	-0.50
		For >1,000 To 2,000, Deduct	-0.75
		For >2,000 To 5,000, Deduct	-1.00
		For >5,000, Deduct	-1.25

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001 Relining Underground Water Pipelines (33 01 10 71)

Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hour response for owners' backups.

33 01 10 71-0002 Relining Underground Water Pipelines Set-Up And Reinsertion (33 01 10 71-0001)

33 01 10 71-0003	EA	Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	5,613.78
33 01 10 71-0004	EA	Move And Reset Up At Different Access/Location	2,245.52

33 01 10 71-0005 Lining Pipe With Cement (33 01 10 71-0001)

33 01 10 71-0006	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	68.69
		For 3/16" Thickness, Add	1.33
		For 1/4" Thickness, Add	2.66
33 01 10 71-0007	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	61.23
		For 3/16" Thickness, Add	1.33
		For 1/4" Thickness, Add	2.66
33 01 10 71-0008	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	51.24
		For 3/16" Thickness, Add	1.33
		For 1/4" Thickness, Add	2.66
33 01 10 71-0009	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	38.70
		For 3/16" Thickness, Add	1.33
		For 1/4" Thickness, Add	2.66
33 01 10 71-0010	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	71.71
		For 3/16" Thickness, Add	1.99
		For 1/4" Thickness, Add	3.97
33 01 10 71-0011	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	63.97
		For 3/16" Thickness, Add	1.99
		For 1/4" Thickness, Add	3.97
33 01 10 71-0012	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	53.64
		For 3/16" Thickness, Add	1.99
		For 1/4" Thickness, Add	3.97
33 01 10 71-0013	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	40.92
		For 3/16" Thickness, Add	1.99
		For 1/4" Thickness, Add	3.97
33 01 10 71-0014	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	74.63
		For 3/16" Thickness, Add	2.65
		For 1/4" Thickness, Add	5.29
33 01 10 71-0015	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	66.71
		For 3/16" Thickness, Add	2.65
		For 1/4" Thickness, Add	5.29
33 01 10 71-0016	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	56.04
		For 3/16" Thickness, Add	2.65
		For 1/4" Thickness, Add	5.29
33 01 10 71-0017	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	43.15
		For 3/16" Thickness, Add	2.65
		For 1/4" Thickness, Add	5.29
33 01 10 71-0018	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	76.94
		For 3/16" Thickness, Add	3.32
		For 1/4" Thickness, Add	6.63
33 01 10 71-0019	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	68.90
		For 3/16" Thickness, Add	3.32
		For 1/4" Thickness, Add	6.63
33 01 10 71-0020	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	58.07
		For 3/16" Thickness, Add	3.32
		For 1/4" Thickness, Add	6.63
33 01 10 71-0021	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	45.40
		For 3/16" Thickness, Add	3.32
		For 1/4" Thickness, Add	6.63
33 01 10 71-0022	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	83.34
		For 3/16" Thickness, Add	3.98
		For 1/4" Thickness, Add	7.95
33 01 10 71-0023	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	74.79
		For 3/16" Thickness, Add	3.98
		For 1/4" Thickness, Add	7.95
33 01 10 71-0024	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	63.27
		For 3/16" Thickness, Add	3.98
		For 1/4" Thickness, Add	7.95
33 01 10 71-0025	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	49.57
		For 3/16" Thickness, Add	3.98
		For 1/4" Thickness, Add	7.95
33 01 10 71-0026	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	90.93
		For 1/4" Thickness, Add	4.42
		For 5/16" Thickness, Add	8.85
33 01 10 71-0027	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	82.08
		For 1/4" Thickness, Add	4.42
		For 5/16" Thickness, Add	8.85
33 01 10 71-0028	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	70.06
		For 1/4" Thickness, Add	4.42
		For 5/16" Thickness, Add	8.85
33 01 10 71-0029	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	56.95
		For 1/4" Thickness, Add	4.42
		For 5/16" Thickness, Add	8.85



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Water Utilities		33 01 10	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 01 10 71-0030	LF	Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	95.85	
		For 1/4" Thickness, Add	5.30	
		For 5/16" Thickness, Add	10.60	
33 01 10 71-0031	LF	>500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	86.71	
		For 1/4" Thickness, Add	5.30	
		For 5/16" Thickness, Add	10.60	
33 01 10 71-0032	LF	>1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	74.30	
		For 1/4" Thickness, Add	5.30	
		For 5/16" Thickness, Add	10.60	
33 01 10 71-0033	LF	>5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	61.86	
		For 1/4" Thickness, Add	5.30	
		For 5/16" Thickness, Add	10.60	
33 01 10 71-0034	LF	Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	101.82	
		For 1/4" Thickness, Add	6.19	
		For 5/16" Thickness, Add	12.37	
33 01 10 71-0035	LF	>500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	92.36	
		For 1/4" Thickness, Add	6.19	
		For 5/16" Thickness, Add	12.37	
33 01 10 71-0036	LF	>1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	79.34	
		For 1/4" Thickness, Add	6.19	
		For 5/16" Thickness, Add	12.37	
33 01 10 71-0037	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	67.72	
		For 1/4" Thickness, Add	6.19	
		For 5/16" Thickness, Add	12.37	
33 01 10 71-0038	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	107.88	
		For 1/4" Thickness, Add	7.07	
		For 5/16" Thickness, Add	14.14	
33 01 10 71-0039	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	98.03	
		For 1/4" Thickness, Add	7.07	
		For 5/16" Thickness, Add	14.14	
33 01 10 71-0040	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	84.62	
		For 1/4" Thickness, Add	7.07	
		For 5/16" Thickness, Add	14.14	
33 01 10 71-0041	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	73.78	
		For 1/4" Thickness, Add	7.07	
		For 5/16" Thickness, Add	14.14	
33 01 10 71-0042	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	116.49	
		For 1/4" Thickness, Add	8.84	
		For 5/16" Thickness, Add	17.67	
33 01 10 71-0043	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	106.08	
		For 1/4" Thickness, Add	8.84	
		For 5/16" Thickness, Add	17.67	
33 01 10 71-0044	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	91.86	
		For 1/4" Thickness, Add	8.84	
		For 5/16" Thickness, Add	17.67	
33 01 10 71-0045	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	80.91	
		For 1/4" Thickness, Add	8.84	
		For 5/16" Thickness, Add	17.67	
33 01 10 71-0046	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	125.00	
		For 1/4" Thickness, Add	10.61	
		For 5/16" Thickness, Add	21.21	
33 01 10 71-0047	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	114.12	
		For 1/4" Thickness, Add	10.61	
		For 5/16" Thickness, Add	21.21	
33 01 10 71-0048	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	99.11	
		For 1/4" Thickness, Add	10.61	
		For 5/16" Thickness, Add	21.21	
33 01 10 71-0049	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	88.05	
		For 1/4" Thickness, Add	10.61	
		For 5/16" Thickness, Add	21.21	
33 01 10 71-0050	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	157.51	
		For 3/8" Thickness, Add	27.84	
		For 7/16" Thickness, Add	41.75	
33 01 10 71-0051	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	145.66	
		For 3/8" Thickness, Add	27.84	
		For 7/16" Thickness, Add	41.75	
33 01 10 71-0052	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	129.34	
		For 3/8" Thickness, Add	27.84	
		For 7/16" Thickness, Add	41.75	
33 01 10 71-0053	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement.....	117.94	
		For 3/8" Thickness, Add	27.84	
		For 7/16" Thickness, Add	41.75	
33 01 10 71-0054	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	174.02	
		For 3/8" Thickness, Add	31.81	
		For 7/16" Thickness, Add	47.72	
33 01 10 71-0055	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	161.34	
		For 3/8" Thickness, Add	31.81	
		For 7/16" Thickness, Add	47.72	
33 01 10 71-0056	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	143.80	
		For 3/8" Thickness, Add	31.81	
		For 7/16" Thickness, Add	47.72	
33 01 10 71-0057	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement.....	132.16	
		For 3/8" Thickness, Add	31.81	
		For 7/16" Thickness, Add	47.72	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	184.02	
For 3/8" Thickness, Add	35.79	
For 7/16" Thickness, Add	53.68	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	171.07	
For 3/8" Thickness, Add	35.79	
For 7/16" Thickness, Add	53.68	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	153.11	
For 3/8" Thickness, Add	35.79	
For 7/16" Thickness, Add	53.68	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	141.94	
For 3/8" Thickness, Add	35.79	
For 7/16" Thickness, Add	53.68	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	194.04	
For 3/8" Thickness, Add	39.77	
For 7/16" Thickness, Add	59.66	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	180.87	
For 3/8" Thickness, Add	39.77	
For 7/16" Thickness, Add	59.66	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	162.57	
For 3/8" Thickness, Add	39.77	
For 7/16" Thickness, Add	59.66	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	151.73	
For 3/8" Thickness, Add	39.77	
For 7/16" Thickness, Add	59.66	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement	204.39	
For 3/8" Thickness, Add	43.75	
For 7/16" Thickness, Add	65.62	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	190.93	
For 3/8" Thickness, Add	43.75	
For 7/16" Thickness, Add	65.62	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	172.34	
For 3/8" Thickness, Add	43.75	
For 7/16" Thickness, Add	65.62	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	162.30	
For 3/8" Thickness, Add	43.75	
For 7/16" Thickness, Add	65.62	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement	215.18	
For 3/8" Thickness, Add	47.72	
For 7/16" Thickness, Add	71.58	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	201.50	
For 3/8" Thickness, Add	47.72	
For 7/16" Thickness, Add	71.58	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	182.46	
For 3/8" Thickness, Add	47.72	
For 7/16" Thickness, Add	71.58	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	172.99	
For 3/8" Thickness, Add	47.72	
For 7/16" Thickness, Add	71.58	

33 01 20 Operation and Maintenance of Wells (33 01)**33 01 20 00-0001 Pull Submersible Well Pumps For Repair (33 01 20)**

Note: Includes cleaning.

33 01 20 00-0002 EA Up To 100' Depth, Pull Submersible Well Pumps For Repair	92.53
Note: Includes reinstallation after repair.	
33 01 20 00-0003 EA >100 To 200' Depth, Pull Submersible Well Pumps For Repair	123.37
Note: Includes reinstallation after repair.	
33 01 20 00-0004 EA >200 To 300' Depth, Pull Submersible Well Pumps For Repair	160.38
Note: Includes reinstallation after repair.	
33 01 20 00-0005 EA >300 To 400' Depth, Pull Submersible Well Pumps For Repair	209.73
Note: Includes reinstallation after repair.	
33 01 20 00-0006 EA >400 To 500' Depth, Pull Submersible Well Pumps For Repair	259.08
Note: Includes reinstallation after repair.	
33 01 20 00-0007 EA >500 To 600' Depth, Pull Submersible Well Pumps For Repair	296.09
Note: Includes reinstallation after repair.	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines (33 01 30)**

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up (33 01 30 11-0001)**

Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1" to 12" diameter pipes for distances up to 300 feet. Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	963.91
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert	1,927.84
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,891.75
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	481.96
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	963.91



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	11-0008		Video Camera Planning And Analysis Inspection (33 01 30 11-0001)		
			Note: For pipe interior and culverts.		
33 01 30	11-0009	LF	4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase.....	2.44	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.24	
			For >1,000 To 5,000, Deduct	-0.61	
			For >5,000, Deduct	-0.85	
33 01 30	11-0010	LF	>6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.26	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.33	
			For >1,000 To 5,000, Deduct	-0.82	
			For >5,000, Deduct	-1.14	
33 01 30	11-0011	LF	>12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase.....	4.07	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.41	
			For >1,000 To 5,000, Deduct	-1.02	
			For >5,000, Deduct	-1.42	
33 01 30	11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.43	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.54	
			For >1,000 To 5,000, Deduct	-1.36	
			For >5,000, Deduct	-1.90	
33 01 30	11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.64	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.76	
			For >1,000 To 5,000, Deduct	-1.91	
			For >5,000, Deduct	-2.67	
33 01 30	11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	10.18	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-1.02	
			For >1,000 To 5,000, Deduct	-2.55	
			For >5,000, Deduct	-3.56	
33 01 30	11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	14.37	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-1.44	
			For >1,000 To 5,000, Deduct	-3.59	
			For >5,000, Deduct	-5.03	
33 01 30	11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	20.36	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-2.04	
			For >1,000 To 5,000, Deduct	-5.09	
			For >5,000, Deduct	-7.13	
33 01 30	11-0017		Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30	11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase	3.61	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.36	
			For >1,000 To 5,000, Deduct	-0.90	
			For >5,000, Deduct	-1.26	
33 01 30	11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase	4.82	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.48	
			For >1,000 To 5,000, Deduct	-1.21	
			For >5,000, Deduct	-1.69	
33 01 30	11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase	6.03	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.60	
			For >1,000 To 5,000, Deduct	-1.51	
			For >5,000, Deduct	-2.11	
33 01 30	11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase	8.03	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-0.80	
			For >1,000 To 5,000, Deduct	-2.01	
			For >5,000, Deduct	-2.81	
33 01 30	11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase	11.30	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-1.13	
			For >1,000 To 5,000, Deduct	-2.83	
			For >5,000, Deduct	-3.96	
33 01 30	11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase	15.06	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-1.51	
			For >1,000 To 5,000, Deduct	-3.77	
			For >5,000, Deduct	-5.27	
33 01 30	11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase	21.26	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-2.13	
			For >1,000 To 5,000, Deduct	-5.32	
			For >5,000, Deduct	-7.44	
33 01 30	11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase	30.13	
			Note: CCTV inspection of pipe interior.		
			For >500 To 1,000, Deduct	-3.01	
			For >1,000 To 5,000, Deduct	-7.53	
			For >5,000, Deduct	-10.55	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027	LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase	2.58
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-0.26
	For >1,000 To 5,000, Deduct	-0.65
	For >5,000, Deduct	-0.90
33 01 30 11-0028	LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase	3.44
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-0.34
	For >1,000 To 5,000, Deduct	-0.86
	For >5,000, Deduct	-1.20
33 01 30 11-0029	LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase	4.31
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-0.43
	For >1,000 To 5,000, Deduct	-1.08
	For >5,000, Deduct	-1.51
33 01 30 11-0030	LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase	5.73
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-0.57
	For >1,000 To 5,000, Deduct	-1.43
	For >5,000, Deduct	-2.01
33 01 30 11-0031	LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase	8.07
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-0.81
	For >1,000 To 5,000, Deduct	-2.02
	For >5,000, Deduct	-2.82
33 01 30 11-0032	LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase	10.76
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-1.08
	For >1,000 To 5,000, Deduct	-2.69
	For >5,000, Deduct	-3.77
33 01 30 11-0033	LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase	15.19
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-1.52
	For >1,000 To 5,000, Deduct	-3.80
	For >5,000, Deduct	-5.32
33 01 30 11-0034	LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase	21.52
	Note: CCTV inspection of pipe interior.	
	For >500 To 1,000, Deduct	-2.15
	For >1,000 To 5,000, Deduct	-5.38
	For >5,000, Deduct	-7.53

33 01 30 41 Cleaning of Sewers (33 01 30)

33 01 30 41-0001	Pipe Line Cleaning And Flushing (33 01 30 41)	
	Note: Includes flushing. Owner provided water.	
33 01 30 41-0002	Pipe Line Cleaning (33 01 30 41-0001)	
	Note: Includes removal of all debris/waste. Excludes disposal.	
33 01 30 41-0003	Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)	
	Note: Includes mobilization delivery, set-up, clean-up after use and return.	
33 01 30 41-0004	EA Initial Set Up And Final Equipment Removal For Up To 8" Jet Cleaning	1,489.56
33 01 30 41-0005	EA Initial Set Up And Final Equipment Removal For >8" To 12" Jet Cleaning	2,234.34
33 01 30 41-0006	EA Initial Set Up And Final Equipment Removal For >12" To 30" Jet Cleaning	2,979.13
33 01 30 41-0007	EA Initial Set Up And Final Equipment Removal For >30" Jet Cleaning	3,972.16
33 01 30 41-0008	EA Move And Reset Up At Different Access/Location For Up To 8" Jet Cleaning	372.39
33 01 30 41-0009	EA Move And Reset Up At Different Access/Location For >8" To 12" Jet Cleaning	558.59
33 01 30 41-0010	EA Move And Reset Up At Different Access/Location For >12" To 30" Jet Cleaning	744.78
33 01 30 41-0011	EA Move And Reset Up At Different Access/Location For >30" Jet Cleaning	930.97

33 01 30 41-0012 Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)

33 01 30 41-0013	LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.01
	For >250 To 500, Deduct	-0.20
	For >500 To 1,000, Deduct	-0.40
	For >1,000 To 2,000, Deduct	-0.60
	For >2,000 To 5,000, Deduct	-0.80
	For >5,000, Deduct	-1.00
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.01
33 01 30 41-0014	LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	4.59
	For >250 To 500, Deduct	-0.23
	For >500 To 1,000, Deduct	-0.46
	For >1,000 To 2,000, Deduct	-0.69
	For >2,000 To 5,000, Deduct	-0.92
	For >5,000, Deduct	-1.15
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.44



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 01 30 41-0015	LF	8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	5.39	
		For >250 To 500, Deduct	-0.27	
		For >500 To 1,000, Deduct	-0.54	
		For >1,000 To 2,000, Deduct	-0.81	
		For >2,000 To 5,000, Deduct	-1.08	
		For >5,000, Deduct	-1.35	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.04	
33 01 30 41-0016	LF	10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	6.68	
		For >250 To 500, Deduct	-0.33	
		For >500 To 1,000, Deduct	-0.67	
		For >1,000 To 2,000, Deduct	-1.00	
		For >2,000 To 5,000, Deduct	-1.34	
		For >5,000, Deduct	-1.67	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.01	
33 01 30 41-0017	LF	12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	7.57	
		For >250 To 500, Deduct	-0.38	
		For >500 To 1,000, Deduct	-0.76	
		For >1,000 To 2,000, Deduct	-1.14	
		For >2,000 To 5,000, Deduct	-1.51	
		For >5,000, Deduct	-1.89	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.68	
33 01 30 41-0018	LF	>12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	8.74	
		For >250 To 500, Deduct	-0.44	
		For >500 To 1,000, Deduct	-0.87	
		For >1,000 To 2,000, Deduct	-1.31	
		For >2,000 To 5,000, Deduct	-1.75	
		For >5,000, Deduct	-2.19	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.56	
33 01 30 41-0019	LF	>16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	10.52	
		For >250 To 500, Deduct	-0.53	
		For >500 To 1,000, Deduct	-1.05	
		For >1,000 To 2,000, Deduct	-1.58	
		For >2,000 To 5,000, Deduct	-2.10	
		For >5,000, Deduct	-2.63	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	7.89	
33 01 30 41-0020	LF	>24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	11.93	
		For >250 To 500, Deduct	-0.60	
		For >500 To 1,000, Deduct	-1.19	
		For >1,000 To 2,000, Deduct	-1.79	
		For >2,000 To 5,000, Deduct	-2.39	
		For >5,000, Deduct	-2.98	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	8.95	
33 01 30 41-0021	LF	>30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	14.11	
		For >250 To 500, Deduct	-0.71	
		For >500 To 1,000, Deduct	-1.41	
		For >1,000 To 2,000, Deduct	-2.12	
		For >2,000 To 5,000, Deduct	-2.82	
		For >5,000, Deduct	-3.53	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	10.58	
33 01 30 41-0022	LF	>42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	17.73	
		For >250 To 500, Deduct	-0.89	
		For >500 To 1,000, Deduct	-1.77	
		For >1,000 To 2,000, Deduct	-2.66	
		For >2,000 To 5,000, Deduct	-3.55	
		For >5,000, Deduct	-4.43	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	13.30	
33 01 30 41-0023	LF	>60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	20.69	
		For >250 To 500, Deduct	-1.03	
		For >500 To 1,000, Deduct	-2.07	
		For >1,000 To 2,000, Deduct	-3.10	
		For >2,000 To 5,000, Deduct	-4.14	
		For >5,000, Deduct	-5.17	
		For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	15.52	
33 01 30 41-0024		Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
		Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0025	LF	12" To 16" Diameter Pipe Line Flushing	1.49	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.15	
		For >1,000 To 2,000, Deduct	-0.22	
		For >2,000 To 5,000, Deduct	-0.30	
		For >5,000, Deduct	-0.37	
33 01 30 41-0026	LF	>16" To 24" Diameter Pipe Line Flushing	1.71	
		For >250 To 500, Deduct	-0.09	
		For >500 To 1,000, Deduct	-0.17	
		For >1,000 To 2,000, Deduct	-0.26	
		For >2,000 To 5,000, Deduct	-0.34	
		For >5,000, Deduct	-0.43	
33 01 30 41-0027	LF	>24" To 30" Diameter Pipe Line Flushing	2.01	
		For >250 To 500, Deduct	-0.10	
		For >500 To 1,000, Deduct	-0.20	
		For >1,000 To 2,000, Deduct	-0.30	
		For >2,000 To 5,000, Deduct	-0.40	
		For >5,000, Deduct	-0.50	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0028 LF >30" To 42" Diameter Pipe Line Flushing	2.31	
For >250 To 500, Deduct	-0.12	
For >500 To 1,000, Deduct	-0.23	
For >1,000 To 2,000, Deduct	-0.35	
For >2,000 To 5,000, Deduct	-0.46	
For >5,000, Deduct	-0.58	
33 01 30 41-0029 LF >42" To 60" Diameter Pipe Line Flushing	3.09	
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.31	
For >1,000 To 2,000, Deduct	-0.46	
For >2,000 To 5,000, Deduct	-0.62	
For >5,000, Deduct	-0.77	
33 01 30 41-0030 Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0031 LF Jet Cleaning Of Culvert, 0-250 LF	18.53	
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.85	
For >1,000 To 2,000, Deduct	-2.78	
For >2,000 To 5,000, Deduct	-3.71	
For >5,000, Deduct	-4.63	
33 01 30 41-0032 Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0033 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	1,295.61	
33 01 30 41-0034 EA Move And Reset Up At Different Access/Location.....	431.87	
33 01 30 41-0035 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	7.50	
For >250 To 500, Deduct	-0.36	
For >500 To 1,000, Deduct	-0.72	
For >1,000 To 2,000, Deduct	-1.08	
For >2,000 To 5,000, Deduct	-1.44	
For >5,000, Deduct	-1.80	
33 01 30 41-0036 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	9.88	
For >250 To 500, Deduct	-0.46	
For >500 To 1,000, Deduct	-0.93	
For >1,000 To 2,000, Deduct	-1.39	
For >2,000 To 5,000, Deduct	-1.85	
For >5,000, Deduct	-2.32	
33 01 30 41-0037 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	11.56	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-1.08	
For >1,000 To 2,000, Deduct	-1.62	
For >2,000 To 5,000, Deduct	-2.16	
For >5,000, Deduct	-2.70	
33 01 30 41-0038 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	13.38	
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-1.25	
For >1,000 To 2,000, Deduct	-1.87	
For >2,000 To 5,000, Deduct	-2.49	
For >5,000, Deduct	-3.11	
33 01 30 41-0039 LF 12" Diameter Pipe Line Cleaning, Mechanical Method	14.58	
For >250 To 500, Deduct	-0.68	
For >500 To 1,000, Deduct	-1.35	
For >1,000 To 2,000, Deduct	-2.03	
For >2,000 To 5,000, Deduct	-2.70	
For >5,000, Deduct	-3.38	
33 01 30 41-0040 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method.....	16.82	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.54	
For >1,000 To 2,000, Deduct	-2.31	
For >2,000 To 5,000, Deduct	-3.09	
For >5,000, Deduct	-3.86	
33 01 30 41-0041 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method.....	21.22	
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,000, Deduct	-2.86	
For >2,000 To 5,000, Deduct	-3.81	
For >5,000, Deduct	-4.76	
33 01 30 41-0042 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method.....	24.34	
For >250 To 500, Deduct	-1.06	
For >500 To 1,000, Deduct	-2.12	
For >1,000 To 2,000, Deduct	-3.19	
For >2,000 To 5,000, Deduct	-4.25	
For >5,000, Deduct	-5.31	
33 01 30 41-0043 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method.....	28.31	
For >250 To 500, Deduct	-1.22	
For >500 To 1,000, Deduct	-2.44	
For >1,000 To 2,000, Deduct	-3.67	
For >2,000 To 5,000, Deduct	-4.89	
For >5,000, Deduct	-6.11	



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Sewer Utilities		33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 01 30 41-0044	LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method.....		37.04	
	For >250 To 500, Deduct		-1.62	
	For >500 To 1,000, Deduct		-3.24	
	For >1,000 To 2,000, Deduct		-4.86	
	For >2,000 To 5,000, Deduct		-6.48	
	For >5,000, Deduct		-8.10	
33 01 30 41-0045	LF >60" Diameter Pipe Line Cleaning, Mechanical Method.....		42.19	
	For >250 To 500, Deduct		-1.80	
	For >500 To 1,000, Deduct		-3.60	
	For >1,000 To 2,000, Deduct		-5.40	
	For >2,000 To 5,000, Deduct		-7.20	
	For >5,000, Deduct		-9.00	
33 01 30 41-0046	Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)			
33 01 30 41-0047	EA Initial Set Up And Final Equipment Removal For Auguring		1,295.61	
33 01 30 41-0048	EA Move And Reset Up At Different Location		431.87	
33 01 30 41-0049	LF Up To 4" Diameter Pipe Line Auguring/Rod Out.....		4.32	
	For >250 To 500, Deduct		-0.22	
	For >500 To 1,000, Deduct		-0.43	
	For >1,000 To 2,000, Deduct		-0.65	
	For >2,000 To 5,000, Deduct		-0.86	
	For >5,000, Deduct		-1.08	
33 01 30 41-0050	LF 6" Diameter Pipe Line Auguring/Rod Out		5.59	
	For >250 To 500, Deduct		-0.28	
	For >500 To 1,000, Deduct		-0.56	
	For >1,000 To 2,000, Deduct		-0.84	
	For >2,000 To 5,000, Deduct		-1.12	
	For >5,000, Deduct		-1.40	
33 01 30 41-0051	LF 8" Diameter Pipe Line Auguring/Rod Out		6.48	
	For >250 To 500, Deduct		-0.32	
	For >500 To 1,000, Deduct		-0.65	
	For >1,000 To 2,000, Deduct		-0.97	
	For >2,000 To 5,000, Deduct		-1.30	
	For >5,000, Deduct		-1.62	
33 01 30 41-0052	LF 10" Diameter Pipe Line Auguring/Rod Out		7.53	
	For >250 To 500, Deduct		-0.38	
	For >500 To 1,000, Deduct		-0.75	
	For >1,000 To 2,000, Deduct		-1.13	
	For >2,000 To 5,000, Deduct		-1.51	
	For >5,000, Deduct		-1.88	
33 01 30 41-0053	LF 12" Diameter Pipe Line Auguring/Rod Out		8.09	
	For >250 To 500, Deduct		-0.40	
	For >500 To 1,000, Deduct		-0.81	
	For >1,000 To 2,000, Deduct		-1.21	
	For >2,000 To 5,000, Deduct		-1.62	
	For >5,000, Deduct		-2.02	
33 01 30 41-0054	LF >12" To 16" Diameter Pipe Line Auguring/Rod Out.....		9.26	
	For >250 To 500, Deduct		-0.46	
	For >500 To 1,000, Deduct		-0.93	
	For >1,000 To 2,000, Deduct		-1.39	
	For >2,000 To 5,000, Deduct		-1.85	
	For >5,000, Deduct		-2.32	
33 01 30 41-0055	LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....		11.37	
	For >250 To 500, Deduct		-0.57	
	For >500 To 1,000, Deduct		-1.14	
	For >1,000 To 2,000, Deduct		-1.71	
	For >2,000 To 5,000, Deduct		-2.27	
	For >5,000, Deduct		-2.84	
33 01 30 41-0056	LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....		12.70	
	For >250 To 500, Deduct		-0.64	
	For >500 To 1,000, Deduct		-1.27	
	For >1,000 To 2,000, Deduct		-1.91	
	For >2,000 To 5,000, Deduct		-2.54	
	For >5,000, Deduct		-3.18	
33 01 30 41-0057	LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....		14.73	
	For >250 To 500, Deduct		-0.74	
	For >500 To 1,000, Deduct		-1.47	
	For >1,000 To 2,000, Deduct		-2.21	
	For >2,000 To 5,000, Deduct		-2.95	
	For >5,000, Deduct		-3.68	
33 01 30 41-0058	LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....		20.25	
	For >250 To 500, Deduct		-1.01	
	For >500 To 1,000, Deduct		-2.03	
	For >1,000 To 2,000, Deduct		-3.04	
	For >2,000 To 5,000, Deduct		-4.05	
	For >5,000, Deduct		-5.06	
33 01 30 41-0059	LF >60" Diameter Pipe Line Auguring/Rod Out		21.59	
	For >250 To 500, Deduct		-1.08	
	For >500 To 1,000, Deduct		-2.16	
	For >1,000 To 2,000, Deduct		-3.24	
	For >2,000 To 5,000, Deduct		-4.32	
	For >5,000, Deduct		-5.40	

33 01 30 42 Cleaning of Manholes (33 01 30)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 42-0001	Structure Cleaning And Flushing (33 01 30 42)	
	Note: Includes flushing. Owner provided water.	
33 01 30 42-0002	Rod Out Structures And Other Hand Operations (33 01 30 42-0001)	
33 01 30 42-0003	EA Rod Out Waste Water Drain	57.02
33 01 30 42-0004	EA Rod Out Sewer Catch Basin	114.05
33 01 30 42-0005	EA Up To 6" Diameter Pipe, Rod Out Blockage	22.81
33 01 30 42-0006	EA 8" Diameter Pipe, Rod Out Blockage	25.09
33 01 30 42-0007	EA 10" Diameter Pipe, Rod Out Blockage	28.51
33 01 30 42-0008	EA 12" Diameter Pipe, Rod Out Blockage	33.07
33 01 30 42-0009	EA >12" To 16" Diameter Pipe, Rod Out Blockage	38.77
33 01 30 42-0010	EA >16" To 24" Diameter Pipe, Rod Out Blockage	45.61
33 01 30 42-0011	EA >24" To 30" Diameter Pipe, Rod Out Blockage	53.60
33 01 30 42-0012	EA >30" To 42" Diameter Pipe, Rod Out Blockage	61.58
33 01 30 42-0013	EA >42" To 60" Diameter Pipe, Rod Out Blockage	71.85
33 01 30 42-0014	EA >60" Diameter Pipe, Rod Out Blockage	85.53
33 01 30 42-0015	EA Clean Out Debris From Entrance To Inlet Structure	285.11
33 01 30 42-0016	EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand	925.42
	For >10 To 100, Deduct	-138.81
	For >100 To 250, Deduct	-208.22
	For >250, Deduct	-277.63
33 01 30 42-0017	EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand	1,110.51
	For >10 To 100, Deduct	-166.58
	For >100 To 250, Deduct	-249.86
	For >250, Deduct	-333.15
33 01 30 42-0018	EA Clean Out Blocked Catch Basin By Hand	555.25
	For >10 To 100, Deduct	-83.29
	For >100 To 250, Deduct	-124.93
	For >250, Deduct	-166.58
33 01 30 42-0019	Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)	
	Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.	
33 01 30 42-0020	EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	303.68
33 01 30 42-0021	EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	282.30
33 01 30 42-0022	EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	260.93
33 01 30 42-0023	EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	239.55
33 01 30 42-0024	EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	218.17
33 01 30 42-0025	EA Jet/Vacuum Clean >250 Catch Basins Or Manholes	196.80
33 01 30 51	Maintenance of Utilities (33 01 30)	
33 01 30 51-0001	Pipe Repair (33 01 30 51)	
	Note: Excludes excavation and backfill where required See CSI section 31 23 00 00-0000 for excavation and backfill.	
33 01 30 51-0002	Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001)	
	Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.	
33 01 30 51-0003	EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	132.67
	For Stainless Steel Nuts And Bolts, Add	20.64
33 01 30 51-0004	EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	187.27
	For Stainless Steel Nuts And Bolts, Add	31.10
33 01 30 51-0005	EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	215.87
	For Stainless Steel Nuts And Bolts, Add	36.63
33 01 30 51-0006	EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	245.65
	For Stainless Steel Nuts And Bolts, Add	42.14
33 01 30 51-0007	EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	142.99
	For Stainless Steel Nuts And Bolts, Add	22.41
33 01 30 51-0008	EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	198.96
	For Stainless Steel Nuts And Bolts, Add	33.19
33 01 30 51-0009	EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	227.64
	For Stainless Steel Nuts And Bolts, Add	38.59
33 01 30 51-0010	EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	262.67
	For Stainless Steel Nuts And Bolts, Add	45.15
33 01 30 51-0011	EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	153.45
	For Stainless Steel Nuts And Bolts, Add	24.52
33 01 30 51-0012	EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	206.82
	For Stainless Steel Nuts And Bolts, Add	34.70
33 01 30 51-0013	EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	238.69
	For Stainless Steel Nuts And Bolts, Add	40.68
33 01 30 51-0014	EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	277.66
	For Stainless Steel Nuts And Bolts, Add	48.30
33 01 30 51-0015	EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	172.72
	For Stainless Steel Nuts And Bolts, Add	27.88
33 01 30 51-0016	EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	227.63
	For Stainless Steel Nuts And Bolts, Add	37.53
33 01 30 51-0017	EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	275.93
	For Stainless Steel Nuts And Bolts, Add	45.68
33 01 30 51-0018	EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	332.36
	For Stainless Steel Nuts And Bolts, Add	55.11



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0019	EA	4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	433.13 74.02	
33 01 30 51-0020	EA	4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	538.25 92.93	
33 01 30 51-0021	EA	4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	656.20 113.99	
33 01 30 51-0022	EA	6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	202.96 32.90	
33 01 30 51-0023	EA	6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	268.92 44.63	
33 01 30 51-0024	EA	6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	318.68 52.62	
33 01 30 51-0025	EA	6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	373.72 61.15	
33 01 30 51-0026	EA	6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	514.68 88.61	
33 01 30 51-0027	EA	6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	625.59 108.06	
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	747.14 129.12	
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	267.00 39.36	
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	346.27 52.08	
33 01 30 51-0031	EA	8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	417.81 63.02	
33 01 30 51-0032	EA	8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	499.09 75.10	
33 01 30 51-0033	EA	8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	659.67 104.04	
33 01 30 51-0034	EA	8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	788.98 124.41	
33 01 30 51-0035	EA	8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	935.06 146.43	
33 01 30 51-0036	EA	10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	311.34 47.90	
33 01 30 51-0037	EA	10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	416.91 66.26	
33 01 30 51-0038	EA	10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	491.42 77.47	
33 01 30 51-0039	EA	10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	602.36 95.82	
33 01 30 51-0040	EA	10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	787.99 129.97	
33 01 30 51-0041	EA	10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	898.82 145.27	
33 01 30 51-0042	EA	10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,153.23 191.65	
33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	354.75 54.03	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	462.23 71.86	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	557.83 86.96	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	685.51 108.06	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	879.38 142.72	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,035.01 166.67	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,312.26 216.11	
33 01 30 51-0050		Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001) Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051	EA	14.38" To 15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	774.42 207.89	
33 01 30 51-0052	EA	14.38" To 15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,095.17 300.12	
33 01 30 51-0053	EA	14.38" To 15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,473.26 407.00	
33 01 30 51-0054	EA	14.38" To 15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,163.11 613.43	
33 01 30 51-0055	EA	15.07" To 15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	812.89 218.12	
33 01 30 51-0056	EA	15.07" To 15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,146.51 314.03	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0057 EA 15.07" To 15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,538.70	
For Stainless Steel Nuts And Bolts, Add	424.56	
33 01 30 51-0058 EA 15.07" To 15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,267.75	
For Stainless Steel Nuts And Bolts, Add	642.70	
33 01 30 51-0059 EA 15.92" To 16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	834.24	
For Stainless Steel Nuts And Bolts, Add	222.53	
33 01 30 51-0060 EA 15.92" To 16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,174.53	
For Stainless Steel Nuts And Bolts, Add	319.90	
33 01 30 51-0061 EA 15.92" To 16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,579.89	
For Stainless Steel Nuts And Bolts, Add	434.08	
33 01 30 51-0062 EA 15.92" To 16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,326.60	
For Stainless Steel Nuts And Bolts, Add	656.60	
33 01 30 51-0063 EA 16.56" To 17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	856.74	
For Stainless Steel Nuts And Bolts, Add	226.92	
33 01 30 51-0064 EA 16.56" To 17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,206.51	
For Stainless Steel Nuts And Bolts, Add	326.48	
33 01 30 51-0065 EA 16.56" To 17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,620.34	
For Stainless Steel Nuts And Bolts, Add	442.13	
33 01 30 51-0066 EA 16.56" To 17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,385.75	
For Stainless Steel Nuts And Bolts, Add	669.79	
33 01 30 51-0067 EA 17.15" To 17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	877.11	
For Stainless Steel Nuts And Bolts, Add	230.58	
33 01 30 51-0068 EA 17.15" To 17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,234.12	
For Stainless Steel Nuts And Bolts, Add	331.60	
33 01 30 51-0069 EA 17.15" To 17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,660.78	
For Stainless Steel Nuts And Bolts, Add	450.18	
33 01 30 51-0070 EA 17.15" To 17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,439.64	
For Stainless Steel Nuts And Bolts, Add	680.76	
33 01 30 51-0071 EA 17.82" To 18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	896.28	
For Stainless Steel Nuts And Bolts, Add	234.25	
33 01 30 51-0072 EA 17.82" To 18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,262.13	
For Stainless Steel Nuts And Bolts, Add	337.45	
33 01 30 51-0073 EA 17.82" To 18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,696.71	
For Stainless Steel Nuts And Bolts, Add	457.50	
33 01 30 51-0074 EA 17.82" To 18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,474.91	
For Stainless Steel Nuts And Bolts, Add	686.25	
33 01 30 51-0075 EA 18.46" To 19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	918.08	
For Stainless Steel Nuts And Bolts, Add	238.81	
33 01 30 51-0076 EA 18.46" To 19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,295.05	
For Stainless Steel Nuts And Bolts, Add	344.77	
33 01 30 51-0077 EA 18.46" To 19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,734.74	
For Stainless Steel Nuts And Bolts, Add	465.55	
33 01 30 51-0078 EA 18.46" To 19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,549.98	
For Stainless Steel Nuts And Bolts, Add	705.65	
33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079)		
Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling.....	84.92	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling.....	98.89	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling.....	116.23	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling.....	130.81	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling.....	200.84	
33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow.....	101.49	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow.....	118.60	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow.....	238.51	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 01 30 51-0091	EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow		96.41	
33 01 30 51-0092	EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow		86.48	
33 01 30 51-0093	EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow		101.21	
33 01 30 51-0094	EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow		124.82	
33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)				
33 01 30 51-0096	EA 1/2" Copper Compression Repair Tee		185.26	
33 01 30 51-0097	EA 3/4" Copper Compression Repair Tee		145.39	
33 01 30 51-0098	EA 1" Copper Compression Repair Tee		172.62	
33 01 30 51-0099	EA 1" F x 1" M x 1" CTS Street Tee		143.24	
33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)				
33 01 30 51-0101	EA 3/4" M x 1/2" CTS Male Adapter		87.62	
33 01 30 51-0102	EA 3/4" M x 3/4" CTS Male Adapter		70.96	
33 01 30 51-0103	EA 1" M x 1" CTS Male Adapter		81.22	
33 01 30 51-0104	EA 1-1/4" M x 1" CTS Male Adapter		99.29	
33 01 30 51-0105	EA 1-1/4" M x 1-1/4" CTS Male Adapter		117.92	
33 01 30 51-0106	EA 1-1/2" M x 1" CTS Male Adapter		129.00	
33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)				
33 01 30 51-0108	EA 3/4" M x 3/4" CTS Female Adapter		102.43	
33 01 30 51-0109	EA 1" M x 1" CTS Female Adapter		109.12	
33 01 30 51-0110 Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079)				
Note: Includes gaskets. Dresser style 90.				
33 01 30 51-0111 Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110)				
Note: Includes gaskets.				
33 01 30 51-0112	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring		78.38	
33 01 30 51-0113	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring		78.46	
33 01 30 51-0114	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring		88.12	
33 01 30 51-0115	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring		97.88	
33 01 30 51-0116	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring		120.87	
33 01 30 51-0117	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring		147.21	
33 01 30 51-0118	EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		80.69	
33 01 30 51-0119	EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		81.02	
33 01 30 51-0120	EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		88.50	
33 01 30 51-0121	EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		99.07	
33 01 30 51-0122	EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		124.76	
33 01 30 51-0123	EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket		148.93	
33 01 30 51-0124	EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		158.01	
33 01 30 51-0125	EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		184.87	
33 01 30 51-0126	EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		191.61	
33 01 30 51-0127	EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		214.40	
33 01 30 51-0128	EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket		261.07	
33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110)				
Note: Includes armored gaskets.				
33 01 30 51-0130	EA 3/4" x 1/2" Reducing Coupling (Compression)		86.20	
33 01 30 51-0131	EA 1" x 3/4" Reducing Coupling (Compression)		90.64	
33 01 30 51-0132	EA 1-1/4" x 3/4" Reducing Coupling (Compression)		102.11	
33 01 30 51-0133	EA 1-1/4" x 1" Reducing Coupling (Compression)		106.38	
33 01 30 51-0134	EA 1-1/2" x 3/4" Reducing Coupling (Compression)		210.12	
33 01 30 51-0135	EA 1-1/2" x 1" Reducing Coupling (Compression)		127.50	
33 01 30 51-0136	EA 1-1/2" x 1-1/4" Reducing Coupling (Compression)		128.10	
33 01 30 51-0137	EA 2" x 3/4" Reducing Coupling (Compression)		250.90	
33 01 30 51-0138	EA 2" x 1" Reducing Coupling (Compression)		227.16	
33 01 30 51-0139	EA 2" x 1-1/4" Reducing Coupling (Compression)		170.69	
33 01 30 51-0140	EA 2" x 1-1/2" Reducing Coupling (Compression)		170.06	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)				
Note: Includes armored gaskets.				
33 01 30 51-0142	EA 1" 45 Degree Elbow (Compression)		145.12	
33 01 30 51-0143	EA 1-1/4" 45 Degree Elbow (Compression)		150.52	
33 01 30 51-0144	EA 1-1/2" 45 Degree Elbow (Compression)		194.77	
33 01 30 51-0145	EA 2" 45 Degree Elbow (Compression)		246.46	
33 01 30 51-0146	EA 3/4" 90 Degree Elbow (Compression)		96.05	
33 01 30 51-0147	EA 1" 90 Degree Elbow (Compression)		98.88	
33 01 30 51-0148	EA 1-1/4" 90 Degree Elbow (Compression)		115.99	
33 01 30 51-0149	EA 1-1/2" 90 Degree Elbow (Compression)		166.77	
33 01 30 51-0150	EA 2" 90 Degree Elbow (Compression)		181.71	
33 01 30 51-0151	EA 3/4" Plain End 90 Degree Street Elbow (Compression)		96.37	
33 01 30 51-0152	EA 1" Plain End 90 Degree Street Elbow (Compression)		83.49	
33 01 30 51-0153	EA 1-1/4" Plain End 90 Degree Street Elbow (Compression)		94.21	
33 01 30 51-0154	EA 1-1/2" Plain End 90 Degree Street Elbow (Compression)		119.28	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0155	EA	2" Plain End 90 Degree Street Elbow (Compression)	154.85
33 01 30 51-0156	EA	3/4" Threaded End 90 Degree Street Elbow (Compression)	99.72
33 01 30 51-0157	EA	1" Threaded End 90 Degree Street Elbow (Compression)	89.75
33 01 30 51-0158	EA	1-1/4" Threaded End 90 Degree Street Elbow (Compression)	117.48
33 01 30 51-0159	EA	1-1/2" Threaded End 90 Degree Street Elbow (Compression)	141.48
33 01 30 51-0160	EA	2" Threaded End 90 Degree Street Elbow (Compression)	202.34

33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0162	EA	3/4" Street Tee (Compression)	103.70
33 01 30 51-0163	EA	1" Street Tee (Compression)	122.13
33 01 30 51-0164	EA	1-1/4" Street Tee (Compression)	122.29
33 01 30 51-0165	EA	1-1/2" Street Tee (Compression)	140.27
33 01 30 51-0166	EA	2" Street Tee (Compression)	216.04
33 01 30 51-0167	EA	1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression)	121.08
33 01 30 51-0168	EA	1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression)	127.15
33 01 30 51-0169	EA	1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression)	159.27
33 01 30 51-0170	EA	1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression)	186.67
33 01 30 51-0171	EA	1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression)	187.88
33 01 30 51-0172	EA	1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression)	156.69
33 01 30 51-0173	EA	2" x 1-1/4" x 2" Reducing Street Tee (Compression)	210.11
33 01 30 51-0174	EA	2" x 1-1/2" x 2" Reducing Street Tee (Compression)	240.56
33 01 30 51-0175	EA	3/4" Welding Street Tee (Compression)	195.03
33 01 30 51-0176	EA	1" Welding Street Tee (Compression)	194.42
33 01 30 51-0177	EA	1-1/4" Welding Street Tee (Compression)	207.96
33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression)	249.86
33 01 30 51-0179	EA	2" Welding Street Tee (Compression)	338.27
33 01 30 51-0180	EA	3/4" Regular Tee (Compression)	141.90
33 01 30 51-0181	EA	1" Regular Tee (Compression)	252.38
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression)	265.80
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression)	283.78
33 01 30 51-0184	EA	2" Regular Tee (Compression)	313.61
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression)	308.74

33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0187	EA	3/4" Male Adapter (Compression)	95.77
33 01 30 51-0188	EA	1" Male Adapter (Compression)	106.47
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression)	139.72
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression)	157.03
33 01 30 51-0191	EA	2" Male Adapter (Compression)	176.61
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression)	138.94

33 01 30 51-0193 Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0194	EA	3/4" Line Caps (Compression)	51.63
33 01 30 51-0195	EA	1" Line Caps (Compression)	60.10
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression)	68.71
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression)	80.63
33 01 30 51-0198	EA	2" Line Caps (Compression)	99.72

33 01 30 51-0199 Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket. Dresser style 38

33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket	76.35
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket	94.15
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket	107.77
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket	128.02
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket	158.33
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket	211.84
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket	198.52
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket	258.70
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket	266.76
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket	274.82
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket	298.68
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket	312.36
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket	329.50
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket	387.72
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket	393.12
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket	412.78
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket	412.47
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket	427.08
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket	445.73
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket	480.99
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket	502.58
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket	520.31
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket	594.38
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket	696.33



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 01 30 51-0224	EA		12" Coupling, 5" Middle Ring With Buna S Gasket.....	675.73	
33 01 30 51-0225	EA		12" Coupling, 7" Middle Ring With Buna S Gasket.....	891.84	
33 01 30 51-0226	EA		14" Coupling, 7" Middle Ring With Buna S Gasket.....	1,032.68	
33 01 30 51-0227	EA		16" Coupling, 7" Middle Ring With Buna S Gasket.....	1,237.31	
33 01 30 51-0228	EA		18" Coupling, 7" Middle Ring With Buna S Gasket.....	1,361.92	
33 01 30 51-0229	EA		20" Coupling, 7" Middle Ring With Buna S Gasket.....	1,470.40	
33 01 30 51-0230	EA		22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,848.86	
33 01 30 51-0231	EA		24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,945.26	

33 01 30 51-0232

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna S gasket, protected. Dresser style 38.

33 01 30 51-0233	EA		1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	78.66	
33 01 30 51-0234	EA		3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	93.83	
33 01 30 51-0235	EA		1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	107.63	
33 01 30 51-0236	EA		1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	126.95	
33 01 30 51-0237	EA		2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	189.07	
33 01 30 51-0238	EA		2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	184.84	
33 01 30 51-0239	EA		2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	186.96	
33 01 30 51-0240	EA		3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	274.82	
33 01 30 51-0241	EA		3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	282.88	
33 01 30 51-0242	EA		3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	290.94	
33 01 30 51-0243	EA		4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	320.64	
33 01 30 51-0244	EA		4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	306.43	
33 01 30 51-0245	EA		4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	313.91	
33 01 30 51-0246	EA		5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	416.01	
33 01 30 51-0247	EA		5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	419.95	
33 01 30 51-0248	EA		5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	602.77	
33 01 30 51-0249	EA		6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	421.11	
33 01 30 51-0250	EA		6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	442.09	
33 01 30 51-0251	EA		6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	450.19	
33 01 30 51-0252	EA		8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	527.87	
33 01 30 51-0253	EA		8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	535.83	
33 01 30 51-0254	EA		8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	548.66	
33 01 30 51-0255	EA		10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	613.73	
33 01 30 51-0256	EA		10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	716.48	
33 01 30 51-0257	EA		12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	695.88	
33 01 30 51-0258	EA		12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	911.55	
33 01 30 51-0259	EA		14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,052.83	
33 01 30 51-0260	EA		16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,267.53	
33 01 30 51-0261	EA		18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,402.22	
33 01 30 51-0262	EA		20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,510.69	
33 01 30 51-0263	EA		22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,889.16	
33 01 30 51-0264	EA		24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,985.55	

33 01 30 51-0265

Couplings For Steel Pipe (33 01 30 51-0079)

Note: Includes Buna N gasket, protected. Dresser style 38.

33 01 30 51-0266	EA		1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected.....	92.99	
33 01 30 51-0267	EA		3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	108.41	
33 01 30 51-0268	EA		1" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	124.74	
33 01 30 51-0269	EA		1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	149.17	
33 01 30 51-0270	EA		2" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	189.07	
33 01 30 51-0271	EA		2" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	225.06	
33 01 30 51-0272	EA		2" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	237.03	
33 01 30 51-0273	EA		3" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	274.82	
33 01 30 51-0274	EA		3" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	282.88	
33 01 30 51-0275	EA		3" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	290.94	
33 01 30 51-0276	EA		4" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	320.64	
33 01 30 51-0277	EA		4" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	349.37	
33 01 30 51-0278	EA		4" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	360.29	
33 01 30 51-0279	EA		5" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	416.01	
33 01 30 51-0280	EA		5" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	419.95	
33 01 30 51-0281	EA		5" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	466.09	
33 01 30 51-0282	EA		6" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	421.11	
33 01 30 51-0283	EA		6" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	442.09	
33 01 30 51-0284	EA		6" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	450.19	
33 01 30 51-0285	EA		8" Coupling, 4" Middle Ring With Buna N Gasket, Protected.....	527.87	
33 01 30 51-0286	EA		8" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	535.83	
33 01 30 51-0287	EA		8" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	548.66	
33 01 30 51-0288	EA		10" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	613.73	
33 01 30 51-0289	EA		10" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	716.48	
33 01 30 51-0290	EA		12" Coupling, 5" Middle Ring With Buna N Gasket, Protected.....	695.88	
33 01 30 51-0291	EA		12" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	911.55	
33 01 30 51-0292	EA		14" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,052.83	
33 01 30 51-0293	EA		16" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,237.31	
33 01 30 51-0294	EA		18" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,402.22	
33 01 30 51-0295	EA		20" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,510.69	
33 01 30 51-0296	EA		22" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,889.16	
33 01 30 51-0297	EA		24" Coupling, 7" Middle Ring With Buna N Gasket, Protected.....	1,985.55	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0298**Couplings For Steel Pipe** (33 01 30 51-0079)

Note: Includes high temperature carded glass gasket, protected. Dresser style 38.

33 01 30 51-0299	EA	3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	158.97
33 01 30 51-0300	EA	1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	170.96
33 01 30 51-0301	EA	1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	177.36
33 01 30 51-0302	EA	2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	274.30
33 01 30 51-0303	EA	2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	296.34
33 01 30 51-0304	EA	2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	307.57
33 01 30 51-0305	EA	3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	352.49
33 01 30 51-0306	EA	3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	349.95
33 01 30 51-0307	EA	4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	389.67
33 01 30 51-0308	EA	4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	400.59
33 01 30 51-0309	EA	5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	545.07
33 01 30 51-0310	EA	5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	559.56
33 01 30 51-0311	EA	6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	578.81
33 01 30 51-0312	EA	6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	588.42
33 01 30 51-0313	EA	8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket.....	597.00
33 01 30 51-0314	EA	8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	741.20
33 01 30 51-0315	EA	8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	800.01
33 01 30 51-0316	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	814.38
33 01 30 51-0317	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	814.18
33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket.....	1,039.08
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,083.37
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,255.20
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,579.47
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,539.23
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,718.22
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	1,862.97
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket.....	2,025.85

33 01 30 51-0326**Pipe Plugging** (33 01 30 51-0001)**33 01 30 51-0327****Gravity Bladder Type, Temporary Pipe Plugging** (33 01 30 51-0326)

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.

33 01 30 51-0328	EA	3/4" Bladder Type, Temporary Pipe Plug.....	82.18
33 01 30 51-0329	EA	1" Bladder Type, Temporary Pipe Plug.....	87.89
33 01 30 51-0330	EA	1-1/4" Bladder Type, Temporary Pipe Plug.....	94.60
33 01 30 51-0331	EA	1-1/2" Bladder Type, Temporary Pipe Plug.....	100.92
33 01 30 51-0332	EA	2" Bladder Type, Temporary Pipe Plug.....	107.04
33 01 30 51-0333	EA	2-1/2" Bladder Type, Temporary Pipe Plug.....	113.74
33 01 30 51-0334	EA	3" Bladder Type, Temporary Pipe Plug.....	121.98
33 01 30 51-0335	EA	4" Bladder Type, Temporary Pipe Plug.....	134.08
33 01 30 51-0336	EA	5" Bladder Type, Temporary Pipe Plug.....	145.37
33 01 30 51-0337	EA	6" Bladder Type, Temporary Pipe Plug.....	162.28
33 01 30 51-0338	EA	8" Bladder Type, Temporary Pipe Plug.....	180.08
33 01 30 51-0339	EA	10" Bladder Type, Temporary Pipe Plug.....	208.78
33 01 30 51-0340	EA	12" Bladder Type, Temporary Pipe Plug.....	242.18
33 01 30 51-0341	EA	14" Bladder Type, Temporary Pipe Plug.....	288.62
33 01 30 51-0342	EA	16" Bladder Type, Temporary Pipe Plug.....	347.88
33 01 30 51-0343	EA	18" Bladder Type, Temporary Pipe Plug.....	419.06
33 01 30 51-0344	EA	20" Bladder Type, Temporary Pipe Plug.....	497.89
33 01 30 51-0345	EA	24" Bladder Type, Temporary Pipe Plug.....	574.18

33 01 30 51-0346**Hydra Stop, Hot Tapping Of Pressure Pipe** (33 01 30 51-0326)

Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.

33 01 30 51-0347	EA	2" Hydra Stop, Line Stopper.....	2,861.07
33 01 30 51-0348	EA	2-1/2" Hydra Stop, Line Stopper.....	3,590.13
33 01 30 51-0349	EA	3" Hydra Stop, Line Stopper.....	4,401.97
33 01 30 51-0350	EA	4" Hydra Stop, Line Stopper.....	5,308.25
33 01 30 51-0351	EA	5" Hydra Stop, Line Stopper.....	5,980.01
33 01 30 51-0352	EA	6" Hydra Stop, Line Stopper.....	7,047.60
33 01 30 51-0353	EA	8" Hydra Stop, Line Stopper.....	7,719.35
33 01 30 51-0354	EA	10" Hydra Stop, Line Stopper.....	8,786.91
33 01 30 51-0355	EA	12" Hydra Stop, Line Stopper.....	9,854.51
33 01 30 51-0356	EA	14" Hydra Stop, Line Stopper.....	10,991.05
33 01 30 51-0357	EA	16" Hydra Stop, Line Stopper.....	12,541.55
33 01 30 51-0358	EA	18" Hydra Stop, Line Stopper.....	14,298.96
33 01 30 51-0359	EA	20" Hydra Stop, Line Stopper.....	17,021.98

33 01 30 51-0360**Aluminum Expansion Plugs** (33 01 30 51-0326)

Note: For use with PVC, clay Or cast iron drainage pipe.

33 01 30 51-0361	EA	3" Pipe Aluminum Expansion Plug.....	80.82
33 01 30 51-0362	EA	4" Pipe Aluminum Expansion Plug.....	116.49
33 01 30 51-0363	EA	5" Pipe Aluminum Expansion Plug.....	131.30
33 01 30 51-0364	EA	6" Pipe Aluminum Expansion Plug.....	199.65
33 01 30 51-0365	EA	8" Pipe Aluminum Expansion Plug.....	205.14
33 01 30 51-0366	EA	10" Pipe Aluminum Expansion Plug.....	256.72



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0367	EA	12" Pipe Aluminum Expansion Plug.....	347.36	
33 01 30 51-0368	EA	14" Pipe Aluminum Expansion Plug.....	561.33	
33 01 30 51-0369	EA	15" Pipe Aluminum Expansion Plug.....	607.98	
33 01 30 51-0370 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)				
33 01 30 51-0371	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	180.87	
33 01 30 51-0372	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	181.42	
33 01 30 51-0373	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	182.81	
33 01 30 51-0374	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	184.20	
33 01 30 51-0375	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	184.90	
33 01 30 51-0376	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	186.98	
33 01 30 51-0377	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	189.07	
33 01 30 51-0378	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	191.85	
33 01 30 51-0379	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	332.26	
33 01 30 51-0380	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	341.29	
33 01 30 51-0381	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	347.55	
33 01 30 51-0382	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	413.60	
33 01 30 51-0383	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	421.94	
33 01 30 51-0384	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	427.50	
33 01 30 51-0385	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	435.85	
33 01 30 51-0386	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	444.19	
33 01 30 51-0387	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	455.31	
33 01 30 51-0388	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	474.78	
33 01 30 51-0389 PolySeal Pipe Coupler (33 01 30 51-0001)				
33 01 30 51-0390	EA	18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	368.87	
33 01 30 51-0391	EA	24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	416.53	
33 01 30 63 Sewer and Pipe Joint Sealing (33 01 30)				
33 01 30 63-0001 Joint Air Test (33 01 30 63)				
33 01 30 63-0002	EA	4" To 8", Joint Air Test.....	109.04	
33 01 30 63-0003	EA	10" To 15", Joint Air Test.....	127.21	
33 01 30 63-0004	EA	>15" To 21", Joint Air Test.....	145.39	
33 01 30 63-0005	EA	>21" To 24", Joint Air Test.....	181.74	
33 01 30 63-0006	EA	>24" To 27", Joint Air Test.....	218.09	
33 01 30 63-0007	EA	>27" To 36", Joint Air Test.....	254.44	
33 01 30 63-0008 Joint Seal And Joint Air Retest (33 01 30 63)				
Note: Includes grout.				
33 01 30 63-0009	EA	4" Joint Seal And Joint Air Retest.....	327.98	
Note: Includes up to 1 gallon of grout.				
33 01 30 63-0010	EA	6" Joint Seal And Joint Air Retest.....	364.33	
Note: Includes 1 gallon of grout.				
33 01 30 63-0011	EA	8" Joint Seal And Joint Air Retest.....	437.87	
Note: Includes 2 gallons of grout.				
33 01 30 63-0012	EA	10" Joint Seal And Joint Air Retest.....	492.82	
Note: Includes 2.5 gallons of grout.				
33 01 30 63-0013	EA	12" Joint Seal And Joint Air Retest.....	547.77	
Note: Includes 3 gallons of grout.				
33 01 30 63-0014	EA	15" Joint Seal And Joint Air Retest.....	648.35	
Note: Includes 3.75 gallons of grout.				
33 01 30 63-0015	EA	18" Joint Seal And Joint Air Retest.....	748.94	
Note: Includes 4.5 gallons of grout.				
33 01 30 63-0016	EA	21" Joint Seal And Joint Air Retest.....	849.53	
Note: Includes 5.25 gallons of grout.				
33 01 30 63-0017	EA	24" Joint Seal And Joint Air Retest.....	986.48	
Note: Includes 6 gallons of grout.				
33 01 30 63-0018	EA	27" Joint Seal And Joint Air Retest.....	1,123.42	
Note: Includes 6.75 gallons of grout.				
33 01 30 63-0019	EA	30" Joint Seal And Joint Air Retest.....	1,296.70	
Note: Includes 7.5 gallons of grout.				
33 01 30 63-0020	EA	36" Joint Seal And Joint Air Retest.....	1,497.90	
Note: Includes 9 gallons of grout.				
33 01 30 63-0021	GAL	Extra Grout Per Joint.....	182.59	
Note: For extra grout per joint required over listed amount.				
33 01 30 70 Rehabilitation of Sewer Utilities (33 01 30)				
33 01 30 70-0001 Cementitious Pipe Coatings By Hand (33 01 30 70)				
Note: To be used on repair areas to install the coating on the exposed portion of the pipe.				
33 01 30 70-0002	SF	Up To 1" Thick Cementitious Coating On Pipe, Troweled On.....	10.44	
33 01 30 70-0003	SF	>1" To 2" Thick Cementitious Coating On Pipe, Troweled On.....	15.81	
33 01 30 71 Relining Sewers (33 01 30)				

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 71-0001	Relining Underground Pipelines (33 01 30 71)	
	Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hour response for owners' backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners' backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV Inspection, 33 01 30 41-0002 for sewer cleaning.	
33 01 30 71-0002	Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 71-0001)	
	Note: Two part structural polyurethane.	
33 01 30 71-0003	Mobilization And Setup For Spray Applied Structural Polyurethane Lining (33 01 30 71-0002)	
33 01 30 71-0004	EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,936.90
33 01 30 71-0005	Lining Pipe, Spray Applied With 100 mil Structural Polyurethane (33 01 30 71-0002)	
	Note: Two part structural polyurethane.	
33 01 30 71-0006	LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	61.38
	For Up To 75, Add	13.32
	For >75 To 150, Add	6.14
	For >500 To 1,000, Deduct	-1.65
	For >1,000 To 2,000, Deduct	-3.19
	For >2,000 To 5,000, Deduct	-4.94
	For >5,000, Deduct	-7.18
33 01 30 71-0007	LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	71.61
	For Up To 75, Add	15.54
	For >75 To 150, Add	7.16
	For >500 To 1,000, Deduct	-1.92
	For >1,000 To 2,000, Deduct	-3.72
	For >2,000 To 5,000, Deduct	-5.76
	For >5,000, Deduct	-8.38
33 01 30 71-0008	LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	81.85
	For Up To 75, Add	17.76
	For >75 To 150, Add	8.19
	For >500 To 1,000, Deduct	-2.19
	For >1,000 To 2,000, Deduct	-4.25
	For >2,000 To 5,000, Deduct	-6.58
	For >5,000, Deduct	-9.58
33 01 30 71-0009	LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	92.07
	For Up To 75, Add	19.98
	For >75 To 150, Add	9.21
	For >500 To 1,000, Deduct	-2.47
	For >1,000 To 2,000, Deduct	-4.78
	For >2,000 To 5,000, Deduct	-7.40
	For >5,000, Deduct	-10.77
33 01 30 71-0010	LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	102.31
	For Up To 75, Add	22.20
	For >75 To 150, Add	10.23
	For >500 To 1,000, Deduct	-2.74
	For >1,000 To 2,000, Deduct	-5.31
	For >2,000 To 5,000, Deduct	-8.23
	For >5,000, Deduct	-11.97
33 01 30 71-0011	LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	112.54
	For Up To 75, Add	24.42
	For >75 To 150, Add	11.25
	For >500 To 1,000, Deduct	-3.02
	For >1,000 To 2,000, Deduct	-5.84
	For >2,000 To 5,000, Deduct	-9.05
	For >5,000, Deduct	-13.17
33 01 30 71-0012	LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	122.75
	For Up To 75, Add	26.64
	For >75 To 150, Add	12.28
	For >500 To 1,000, Deduct	-3.29
	For >1,000 To 2,000, Deduct	-6.37
	For >2,000 To 5,000, Deduct	-9.87
	For >5,000, Deduct	-14.36
33 01 30 71-0013	LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	132.98
	For Up To 75, Add	28.86
	For >75 To 150, Add	13.30
	For >500 To 1,000, Deduct	-3.56
	For >1,000 To 2,000, Deduct	-6.90
	For >2,000 To 5,000, Deduct	-10.69
	For >5,000, Deduct	-15.56
33 01 30 71-0014	LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	143.22
	For Up To 75, Add	31.08
	For >75 To 150, Add	14.32
	For >500 To 1,000, Deduct	-3.84
	For >1,000 To 2,000, Deduct	-7.44
	For >2,000 To 5,000, Deduct	-11.52
	For >5,000, Deduct	-16.76
33 01 30 71-0015	LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	153.44
	For Up To 75, Add	33.30
	For >75 To 150, Add	15.34
	For >500 To 1,000, Deduct	-4.11
	For >1,000 To 2,000, Deduct	-7.97
	For >2,000 To 5,000, Deduct	-12.34
	For >5,000, Deduct	-17.96



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0016	LF		96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	163.67	
			For Up To 75, Add	35.52	
			For >75 To 150, Add	16.37	
			For >500 To 1,000, Deduct	-4.39	
			For >1,000 To 2,000, Deduct	-8.50	
			For >2,000 To 5,000, Deduct	-13.16	
			For >5,000, Deduct	-19.15	
33 01 30 71-0017	LF		102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	173.91	
			For Up To 75, Add	37.74	
			For >75 To 150, Add	17.39	
			For >500 To 1,000, Deduct	-4.66	
			For >1,000 To 2,000, Deduct	-9.03	
			For >2,000 To 5,000, Deduct	-13.99	
			For >5,000, Deduct	-20.35	
33 01 30 71-0018	LF		108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	184.14	
			For Up To 75, Add	39.96	
			For >75 To 150, Add	18.41	
			For >500 To 1,000, Deduct	-4.94	
			For >1,000 To 2,000, Deduct	-9.56	
			For >2,000 To 5,000, Deduct	-14.81	
			For >5,000, Deduct	-21.55	
33 01 30 71-0019	LF		114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	194.37	
			For Up To 75, Add	42.18	
			For >75 To 150, Add	19.44	
			For >500 To 1,000, Deduct	-5.21	
			For >1,000 To 2,000, Deduct	-10.09	
			For >2,000 To 5,000, Deduct	-15.63	
			For >5,000, Deduct	-22.75	
33 01 30 71-0020	LF		120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	204.60	
			For Up To 75, Add	44.40	
			For >75 To 150, Add	20.46	
			For >500 To 1,000, Deduct	-5.48	
			For >1,000 To 2,000, Deduct	-10.62	
			For >2,000 To 5,000, Deduct	-16.45	
			For >5,000, Deduct	-23.94	
33 01 30 71-0021	SF		Structure Lining, Spray Applied With 100 mil Structural Polyurethane	6.51	
33 01 30 71-0022 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0002)					
Note: Two part structural polyurethane.					
33 01 30 71-0023	LF		36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	82.77	
			For Up To 75, Add	17.65	
			For >75 To 150, Add	8.28	
			For >500 To 1,000, Deduct	-2.10	
			For >1,000 To 2,000, Deduct	-4.08	
			For >2,000 To 5,000, Deduct	-6.29	
			For >5,000, Deduct	-9.38	
33 01 30 71-0024	LF		42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	96.55	
			For Up To 75, Add	20.59	
			For >75 To 150, Add	9.66	
			For >500 To 1,000, Deduct	-2.44	
			For >1,000 To 2,000, Deduct	-4.76	
			For >2,000 To 5,000, Deduct	-7.33	
			For >5,000, Deduct	-10.94	
33 01 30 71-0025	LF		48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	110.34	
			For Up To 75, Add	23.53	
			For >75 To 150, Add	11.03	
			For >500 To 1,000, Deduct	-2.79	
			For >1,000 To 2,000, Deduct	-5.44	
			For >2,000 To 5,000, Deduct	-8.38	
			For >5,000, Deduct	-12.50	
33 01 30 71-0026	LF		54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	124.14	
			For Up To 75, Add	26.48	
			For >75 To 150, Add	12.41	
			For >500 To 1,000, Deduct	-3.14	
			For >1,000 To 2,000, Deduct	-6.12	
			For >2,000 To 5,000, Deduct	-9.43	
			For >5,000, Deduct	-14.06	
33 01 30 71-0027	LF		60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	137.93	
			For Up To 75, Add	29.42	
			For >75 To 150, Add	13.79	
			For >500 To 1,000, Deduct	-3.49	
			For >1,000 To 2,000, Deduct	-6.80	
			For >2,000 To 5,000, Deduct	-10.47	
			For >5,000, Deduct	-15.63	
33 01 30 71-0028	LF		66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	151.73	
			For Up To 75, Add	32.36	
			For >75 To 150, Add	15.17	
			For >500 To 1,000, Deduct	-3.84	
			For >1,000 To 2,000, Deduct	-7.48	
			For >2,000 To 5,000, Deduct	-11.52	
			For >5,000, Deduct	-17.19	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0029 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	165.53	
For Up To 75, Add	35.31	
For >75 To 150, Add	16.55	
For >500 To 1,000, Deduct	-4.19	
For >1,000 To 2,000, Deduct	-8.16	
For >2,000 To 5,000, Deduct	-12.57	
For >5,000, Deduct	-18.75	
33 01 30 71-0030 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	179.31	
For Up To 75, Add	38.24	
For >75 To 150, Add	17.93	
For >500 To 1,000, Deduct	-4.54	
For >1,000 To 2,000, Deduct	-8.84	
For >2,000 To 5,000, Deduct	-13.62	
For >5,000, Deduct	-20.31	
33 01 30 71-0031 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	193.11	
For Up To 75, Add	41.19	
For >75 To 150, Add	19.31	
For >500 To 1,000, Deduct	-4.89	
For >1,000 To 2,000, Deduct	-9.52	
For >2,000 To 5,000, Deduct	-14.67	
For >5,000, Deduct	-21.88	
33 01 30 71-0032 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	206.89	
For Up To 75, Add	44.13	
For >75 To 150, Add	20.69	
For >500 To 1,000, Deduct	-5.24	
For >1,000 To 2,000, Deduct	-10.20	
For >2,000 To 5,000, Deduct	-15.71	
For >5,000, Deduct	-23.44	
33 01 30 71-0033 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	220.70	
For Up To 75, Add	47.07	
For >75 To 150, Add	22.07	
For >500 To 1,000, Deduct	-5.59	
For >1,000 To 2,000, Deduct	-10.88	
For >2,000 To 5,000, Deduct	-16.76	
For >5,000, Deduct	-25.00	
33 01 30 71-0034 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	234.49	
For Up To 75, Add	50.01	
For >75 To 150, Add	23.45	
For >500 To 1,000, Deduct	-5.94	
For >1,000 To 2,000, Deduct	-11.56	
For >2,000 To 5,000, Deduct	-17.81	
For >5,000, Deduct	-26.56	
33 01 30 71-0035 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	248.28	
For Up To 75, Add	52.96	
For >75 To 150, Add	24.83	
For >500 To 1,000, Deduct	-6.29	
For >1,000 To 2,000, Deduct	-12.24	
For >2,000 To 5,000, Deduct	-18.86	
For >5,000, Deduct	-28.13	
33 01 30 71-0036 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	262.07	
For Up To 75, Add	55.90	
For >75 To 150, Add	26.21	
For >500 To 1,000, Deduct	-6.63	
For >1,000 To 2,000, Deduct	-12.92	
For >2,000 To 5,000, Deduct	-19.90	
For >5,000, Deduct	-29.69	
33 01 30 71-0037 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	275.88	
For Up To 75, Add	58.84	
For >75 To 150, Add	27.59	
For >500 To 1,000, Deduct	-6.98	
For >1,000 To 2,000, Deduct	-13.60	
For >2,000 To 5,000, Deduct	-20.95	
For >5,000, Deduct	-31.25	
33 01 30 71-0038 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane	8.79	
33 01 30 71-0039 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0040 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	104.12	
For Up To 75, Add	21.98	
For >75 To 150, Add	10.41	
For >500 To 1,000, Deduct	-2.55	
For >1,000 To 2,000, Deduct	-4.98	
For >2,000 To 5,000, Deduct	-7.64	
For >5,000, Deduct	-11.57	
33 01 30 71-0041 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	121.48	
For Up To 75, Add	25.65	
For >75 To 150, Add	12.15	
For >500 To 1,000, Deduct	-2.97	
For >1,000 To 2,000, Deduct	-5.80	
For >2,000 To 5,000, Deduct	-8.91	
For >5,000, Deduct	-13.50	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0042	LF		48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	138.83	
			For Up To 75, Add	29.31	
			For >75 To 150, Add	13.88	
			For >500 To 1,000, Deduct	-3.39	
			For >1,000 To 2,000, Deduct	-6.63	
			For >2,000 To 5,000, Deduct	-10.18	
			For >5,000, Deduct	-15.43	
33 01 30 71-0043	LF		54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	156.18	
			For Up To 75, Add	32.97	
			For >75 To 150, Add	15.62	
			For >500 To 1,000, Deduct	-3.82	
			For >1,000 To 2,000, Deduct	-7.46	
			For >2,000 To 5,000, Deduct	-11.45	
			For >5,000, Deduct	-17.35	
33 01 30 71-0044	LF		60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	173.54	
			For Up To 75, Add	36.64	
			For >75 To 150, Add	17.35	
			For >500 To 1,000, Deduct	-4.24	
			For >1,000 To 2,000, Deduct	-8.29	
			For >2,000 To 5,000, Deduct	-12.73	
			For >5,000, Deduct	-19.28	
33 01 30 71-0045	LF		66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	190.89	
			For Up To 75, Add	40.30	
			For >75 To 150, Add	19.09	
			For >500 To 1,000, Deduct	-4.67	
			For >1,000 To 2,000, Deduct	-9.12	
			For >2,000 To 5,000, Deduct	-14.00	
			For >5,000, Deduct	-21.21	
33 01 30 71-0046	LF		72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	208.25	
			For Up To 75, Add	43.97	
			For >75 To 150, Add	20.83	
			For >500 To 1,000, Deduct	-5.09	
			For >1,000 To 2,000, Deduct	-9.95	
			For >2,000 To 5,000, Deduct	-15.27	
			For >5,000, Deduct	-23.14	
33 01 30 71-0047	LF		78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	225.60	
			For Up To 75, Add	47.63	
			For >75 To 150, Add	22.56	
			For >500 To 1,000, Deduct	-5.52	
			For >1,000 To 2,000, Deduct	-10.78	
			For >2,000 To 5,000, Deduct	-16.55	
			For >5,000, Deduct	-25.07	
33 01 30 71-0048	LF		84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	242.96	
			For Up To 75, Add	51.29	
			For >75 To 150, Add	24.30	
			For >500 To 1,000, Deduct	-5.94	
			For >1,000 To 2,000, Deduct	-11.61	
			For >2,000 To 5,000, Deduct	-17.82	
			For >5,000, Deduct	-27.00	
33 01 30 71-0049	LF		90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	260.30	
			For Up To 75, Add	54.95	
			For >75 To 150, Add	26.03	
			For >500 To 1,000, Deduct	-6.36	
			For >1,000 To 2,000, Deduct	-12.44	
			For >2,000 To 5,000, Deduct	-19.09	
			For >5,000, Deduct	-28.92	
33 01 30 71-0050	LF		96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	277.67	
			For Up To 75, Add	58.62	
			For >75 To 150, Add	27.77	
			For >500 To 1,000, Deduct	-6.79	
			For >1,000 To 2,000, Deduct	-13.27	
			For >2,000 To 5,000, Deduct	-20.36	
			For >5,000, Deduct	-30.85	
33 01 30 71-0051	LF		102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	295.01	
			For Up To 75, Add	62.28	
			For >75 To 150, Add	29.50	
			For >500 To 1,000, Deduct	-7.21	
			For >1,000 To 2,000, Deduct	-14.10	
			For >2,000 To 5,000, Deduct	-21.64	
			For >5,000, Deduct	-32.78	
33 01 30 71-0052	LF		108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	312.37	
			For Up To 75, Add	65.95	
			For >75 To 150, Add	31.24	
			For >500 To 1,000, Deduct	-7.64	
			For >1,000 To 2,000, Deduct	-14.93	
			For >2,000 To 5,000, Deduct	-22.91	
			For >5,000, Deduct	-34.71	
33 01 30 71-0053	LF		114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	329.74	
			For Up To 75, Add	69.61	
			For >75 To 150, Add	32.97	
			For >500 To 1,000, Deduct	-8.06	
			For >1,000 To 2,000, Deduct	-15.76	
			For >2,000 To 5,000, Deduct	-24.18	
			For >5,000, Deduct	-36.64	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0054	LF		120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	347.07	
			For Up To 75, Add	73.27	
			For >75 To 150, Add	34.71	
			For >500 To 1,000, Deduct	-8.48	
			For >1,000 To 2,000, Deduct	-16.58	
			For >2,000 To 5,000, Deduct	-25.45	
			For >5,000, Deduct	-38.57	
33 01 30 71-0055	SF		Structure Lining, Spray Applied With 200 mil Structural Polyurethane	11.04	
33 01 30 71-0056 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 71-0002)					
Note: Two part structural polyurethane.					
33 01 30 71-0057	LF		36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	125.59	
			For Up To 75, Add	26.34	
			For >75 To 150, Add	12.56	
			For >500 To 1,000, Deduct	-3.00	
			For >1,000 To 2,000, Deduct	-5.88	
			For >2,000 To 5,000, Deduct	-9.00	
			For >5,000, Deduct	-13.78	
33 01 30 71-0058	LF		42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	146.52	
			For Up To 75, Add	30.73	
			For >75 To 150, Add	14.65	
			For >500 To 1,000, Deduct	-3.50	
			For >1,000 To 2,000, Deduct	-6.86	
			For >2,000 To 5,000, Deduct	-10.50	
			For >5,000, Deduct	-16.07	
33 01 30 71-0059	LF		48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	167.45	
			For Up To 75, Add	35.11	
			For >75 To 150, Add	16.75	
			For >500 To 1,000, Deduct	-4.00	
			For >1,000 To 2,000, Deduct	-7.84	
			For >2,000 To 5,000, Deduct	-12.00	
			For >5,000, Deduct	-18.37	
33 01 30 71-0060	LF		54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	188.38	
			For Up To 75, Add	39.50	
			For >75 To 150, Add	18.84	
			For >500 To 1,000, Deduct	-4.50	
			For >1,000 To 2,000, Deduct	-8.81	
			For >2,000 To 5,000, Deduct	-13.50	
			For >5,000, Deduct	-20.67	
33 01 30 71-0061	LF		60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	209.30	
			For Up To 75, Add	43.89	
			For >75 To 150, Add	20.93	
			For >500 To 1,000, Deduct	-5.00	
			For >1,000 To 2,000, Deduct	-9.79	
			For >2,000 To 5,000, Deduct	-14.99	
			For >5,000, Deduct	-22.96	
33 01 30 71-0062	LF		66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	230.23	
			For Up To 75, Add	48.28	
			For >75 To 150, Add	23.02	
			For >500 To 1,000, Deduct	-5.50	
			For >1,000 To 2,000, Deduct	-10.77	
			For >2,000 To 5,000, Deduct	-16.49	
			For >5,000, Deduct	-25.26	
33 01 30 71-0063	LF		72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	251.17	
			For Up To 75, Add	52.67	
			For >75 To 150, Add	25.12	
			For >500 To 1,000, Deduct	-6.00	
			For >1,000 To 2,000, Deduct	-11.75	
			For >2,000 To 5,000, Deduct	-17.99	
			For >5,000, Deduct	-27.55	
33 01 30 71-0064	LF		78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	272.10	
			For Up To 75, Add	57.06	
			For >75 To 150, Add	27.21	
			For >500 To 1,000, Deduct	-6.50	
			For >1,000 To 2,000, Deduct	-12.73	
			For >2,000 To 5,000, Deduct	-19.49	
			For >5,000, Deduct	-29.85	
33 01 30 71-0065	LF		84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	293.03	
			For Up To 75, Add	61.45	
			For >75 To 150, Add	29.30	
			For >500 To 1,000, Deduct	-7.00	
			For >1,000 To 2,000, Deduct	-13.71	
			For >2,000 To 5,000, Deduct	-20.99	
			For >5,000, Deduct	-32.15	
33 01 30 71-0066	LF		90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	313.97	
			For Up To 75, Add	65.84	
			For >75 To 150, Add	31.40	
			For >500 To 1,000, Deduct	-7.50	
			For >1,000 To 2,000, Deduct	-14.69	
			For >2,000 To 5,000, Deduct	-22.49	
			For >5,000, Deduct	-34.44	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0067	LF		96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	334.89	
			For Up To 75, Add	70.23	
			For >75 To 150, Add	33.49	
			For >500 To 1,000, Deduct	-8.00	
			For >1,000 To 2,000, Deduct	-15.67	
			For >2,000 To 5,000, Deduct	-23.99	
			For >5,000, Deduct	-36.74	
33 01 30 71-0068	LF		102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	355.82	
			For Up To 75, Add	74.62	
			For >75 To 150, Add	35.58	
			For >500 To 1,000, Deduct	-8.50	
			For >1,000 To 2,000, Deduct	-16.65	
			For >2,000 To 5,000, Deduct	-25.49	
			For >5,000, Deduct	-39.03	
33 01 30 71-0069	LF		108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	376.76	
			For Up To 75, Add	79.01	
			For >75 To 150, Add	37.68	
			For >500 To 1,000, Deduct	-9.00	
			For >1,000 To 2,000, Deduct	-17.63	
			For >2,000 To 5,000, Deduct	-26.99	
			For >5,000, Deduct	-41.33	
33 01 30 71-0070	LF		114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	397.68	
			For Up To 75, Add	83.39	
			For >75 To 150, Add	39.77	
			For >500 To 1,000, Deduct	-9.50	
			For >1,000 To 2,000, Deduct	-18.61	
			For >2,000 To 5,000, Deduct	-28.49	
			For >5,000, Deduct	-43.63	
33 01 30 71-0071	LF		120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	418.62	
			For Up To 75, Add	87.79	
			For >75 To 150, Add	41.86	
			For >500 To 1,000, Deduct	-10.00	
			For >1,000 To 2,000, Deduct	-19.59	
			For >2,000 To 5,000, Deduct	-29.99	
			For >5,000, Deduct	-45.92	
33 01 30 71-0072	SF		Structure Lining, Spray Applied With 250 mil Structural Polyurethane	13.32	
33 01 30 71-0073			Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0002)		
			Note: Two part structural polyurethane.		
33 01 30 71-0074	LF		36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	147.19	
			For Up To 75, Add	30.72	
			For >75 To 150, Add	14.72	
			For >500 To 1,000, Deduct	-3.46	
			For >1,000 To 2,000, Deduct	-6.79	
			For >2,000 To 5,000, Deduct	-10.37	
			For >5,000, Deduct	-16.00	
33 01 30 71-0075	LF		42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	171.71	
			For Up To 75, Add	35.84	
			For >75 To 150, Add	17.17	
			For >500 To 1,000, Deduct	-4.03	
			For >1,000 To 2,000, Deduct	-7.92	
			For >2,000 To 5,000, Deduct	-12.10	
			For >5,000, Deduct	-18.67	
33 01 30 71-0076	LF		48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	196.26	
			For Up To 75, Add	40.96	
			For >75 To 150, Add	19.63	
			For >500 To 1,000, Deduct	-4.61	
			For >1,000 To 2,000, Deduct	-9.05	
			For >2,000 To 5,000, Deduct	-13.83	
			For >5,000, Deduct	-21.34	
33 01 30 71-0077	LF		54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	220.78	
			For Up To 75, Add	46.08	
			For >75 To 150, Add	22.08	
			For >500 To 1,000, Deduct	-5.19	
			For >1,000 To 2,000, Deduct	-10.18	
			For >2,000 To 5,000, Deduct	-15.56	
			For >5,000, Deduct	-24.00	
33 01 30 71-0078	LF		60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	245.31	
			For Up To 75, Add	51.20	
			For >75 To 150, Add	24.53	
			For >500 To 1,000, Deduct	-5.76	
			For >1,000 To 2,000, Deduct	-11.31	
			For >2,000 To 5,000, Deduct	-17.28	
			For >5,000, Deduct	-26.67	
33 01 30 71-0079	LF		66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	269.85	
			For Up To 75, Add	56.32	
			For >75 To 150, Add	26.99	
			For >500 To 1,000, Deduct	-6.34	
			For >1,000 To 2,000, Deduct	-12.44	
			For >2,000 To 5,000, Deduct	-19.01	
			For >5,000, Deduct	-29.34	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0080 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	294.37	
For Up To 75, Add	61.44	
For >75 To 150, Add	29.44	
For >500 To 1,000, Deduct	-6.91	
For >1,000 To 2,000, Deduct	-13.57	
For >2,000 To 5,000, Deduct	-20.74	
For >5,000, Deduct	-32.00	
33 01 30 71-0081 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	318.90	
For Up To 75, Add	66.56	
For >75 To 150, Add	31.89	
For >500 To 1,000, Deduct	-7.49	
For >1,000 To 2,000, Deduct	-14.70	
For >2,000 To 5,000, Deduct	-22.47	
For >5,000, Deduct	-34.67	
33 01 30 71-0082 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	343.43	
For Up To 75, Add	71.68	
For >75 To 150, Add	34.34	
For >500 To 1,000, Deduct	-8.07	
For >1,000 To 2,000, Deduct	-15.83	
For >2,000 To 5,000, Deduct	-24.20	
For >5,000, Deduct	-37.34	
33 01 30 71-0083 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	367.97	
For Up To 75, Add	76.80	
For >75 To 150, Add	36.80	
For >500 To 1,000, Deduct	-8.64	
For >1,000 To 2,000, Deduct	-16.96	
For >2,000 To 5,000, Deduct	-25.93	
For >5,000, Deduct	-40.00	
33 01 30 71-0084 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	392.51	
For Up To 75, Add	81.92	
For >75 To 150, Add	39.25	
For >500 To 1,000, Deduct	-9.22	
For >1,000 To 2,000, Deduct	-18.09	
For >2,000 To 5,000, Deduct	-27.66	
For >5,000, Deduct	-42.67	
33 01 30 71-0085 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	417.03	
For Up To 75, Add	87.04	
For >75 To 150, Add	41.70	
For >500 To 1,000, Deduct	-9.79	
For >1,000 To 2,000, Deduct	-19.23	
For >2,000 To 5,000, Deduct	-29.38	
For >5,000, Deduct	-45.34	
33 01 30 71-0086 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	441.56	
For Up To 75, Add	92.16	
For >75 To 150, Add	44.16	
For >500 To 1,000, Deduct	-10.37	
For >1,000 To 2,000, Deduct	-20.36	
For >2,000 To 5,000, Deduct	-31.11	
For >5,000, Deduct	-48.00	
33 01 30 71-0087 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	466.09	
For Up To 75, Add	97.28	
For >75 To 150, Add	46.61	
For >500 To 1,000, Deduct	-10.95	
For >1,000 To 2,000, Deduct	-21.49	
For >2,000 To 5,000, Deduct	-32.84	
For >5,000, Deduct	-50.67	
33 01 30 71-0088 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	490.63	
For Up To 75, Add	102.40	
For >75 To 150, Add	49.06	
For >500 To 1,000, Deduct	-11.52	
For >1,000 To 2,000, Deduct	-22.62	
For >2,000 To 5,000, Deduct	-34.57	
For >5,000, Deduct	-53.34	
33 01 30 71-0089 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	15.62	
33 01 30 71-0090 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0091 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	190.45	
For Up To 75, Add	39.52	
For >75 To 150, Add	19.05	
For >500 To 1,000, Deduct	-4.38	
For >1,000 To 2,000, Deduct	-8.62	
For >2,000 To 5,000, Deduct	-13.14	
For >5,000, Deduct	-20.47	
33 01 30 71-0092 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	222.20	
For Up To 75, Add	46.10	
For >75 To 150, Add	22.22	
For >500 To 1,000, Deduct	-5.11	
For >1,000 To 2,000, Deduct	-10.05	
For >2,000 To 5,000, Deduct	-15.33	
For >5,000, Deduct	-23.88	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0093	LF	48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	253.93	
		For Up To 75, Add	52.69	
		For >75 To 150, Add	25.39	
		For >500 To 1,000, Deduct	-5.84	
		For >1,000 To 2,000, Deduct	-11.49	
		For >2,000 To 5,000, Deduct	-17.52	
		For >5,000, Deduct	-27.29	
33 01 30 71-0094	LF	54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	285.67	
		For Up To 75, Add	59.27	
		For >75 To 150, Add	28.57	
		For >500 To 1,000, Deduct	-6.57	
		For >1,000 To 2,000, Deduct	-12.92	
		For >2,000 To 5,000, Deduct	-19.71	
		For >5,000, Deduct	-30.70	
33 01 30 71-0095	LF	60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	317.41	
		For Up To 75, Add	65.86	
		For >75 To 150, Add	31.74	
		For >500 To 1,000, Deduct	-7.30	
		For >1,000 To 2,000, Deduct	-14.36	
		For >2,000 To 5,000, Deduct	-21.89	
		For >5,000, Deduct	-34.12	
33 01 30 71-0096	LF	66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	349.16	
		For Up To 75, Add	72.45	
		For >75 To 150, Add	34.92	
		For >500 To 1,000, Deduct	-8.03	
		For >1,000 To 2,000, Deduct	-15.80	
		For >2,000 To 5,000, Deduct	-24.09	
		For >5,000, Deduct	-37.53	
33 01 30 71-0097	LF	72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	380.90	
		For Up To 75, Add	79.03	
		For >75 To 150, Add	38.09	
		For >500 To 1,000, Deduct	-8.76	
		For >1,000 To 2,000, Deduct	-17.23	
		For >2,000 To 5,000, Deduct	-26.27	
		For >5,000, Deduct	-40.94	
33 01 30 71-0098	LF	78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	412.64	
		For Up To 75, Add	85.62	
		For >75 To 150, Add	41.26	
		For >500 To 1,000, Deduct	-9.49	
		For >1,000 To 2,000, Deduct	-18.67	
		For >2,000 To 5,000, Deduct	-28.46	
		For >5,000, Deduct	-44.35	
33 01 30 71-0099	LF	84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	444.38	
		For Up To 75, Add	92.20	
		For >75 To 150, Add	44.44	
		For >500 To 1,000, Deduct	-10.22	
		For >1,000 To 2,000, Deduct	-20.10	
		For >2,000 To 5,000, Deduct	-30.65	
		For >5,000, Deduct	-47.76	
33 01 30 71-0100	LF	90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	476.13	
		For Up To 75, Add	98.79	
		For >75 To 150, Add	47.61	
		For >500 To 1,000, Deduct	-10.95	
		For >1,000 To 2,000, Deduct	-21.54	
		For >2,000 To 5,000, Deduct	-32.84	
		For >5,000, Deduct	-51.18	
33 01 30 71-0101	LF	96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	507.86	
		For Up To 75, Add	105.37	
		For >75 To 150, Add	50.79	
		For >500 To 1,000, Deduct	-11.68	
		For >1,000 To 2,000, Deduct	-22.97	
		For >2,000 To 5,000, Deduct	-35.03	
		For >5,000, Deduct	-54.59	
33 01 30 71-0102	LF	102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	539.60	
		For Up To 75, Add	111.96	
		For >75 To 150, Add	53.96	
		For >500 To 1,000, Deduct	-12.41	
		For >1,000 To 2,000, Deduct	-24.41	
		For >2,000 To 5,000, Deduct	-37.22	
		For >5,000, Deduct	-58.00	
33 01 30 71-0103	LF	108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	571.35	
		For Up To 75, Add	118.55	
		For >75 To 150, Add	57.14	
		For >500 To 1,000, Deduct	-13.14	
		For >1,000 To 2,000, Deduct	-25.85	
		For >2,000 To 5,000, Deduct	-39.41	
		For >5,000, Deduct	-61.41	
33 01 30 71-0104	LF	114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	603.09	
		For Up To 75, Add	125.13	
		For >75 To 150, Add	60.31	
		For >500 To 1,000, Deduct	-13.87	
		For >1,000 To 2,000, Deduct	-27.28	
		For >2,000 To 5,000, Deduct	-41.60	
		For >5,000, Deduct	-64.82	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0105 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	634.83	
For Up To 75, Add	131.72	
For >75 To 150, Add	63.48	
For >500 To 1,000, Deduct	-14.60	
For >1,000 To 2,000, Deduct	-28.72	
For >2,000 To 5,000, Deduct	-43.79	
For >5,000, Deduct	-68.23	
33 01 30 71-0106 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane	20.20	
33 01 30 71-0107 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 71-0002)		
Note: Two part structural polyurethane.		
33 01 30 71-0108 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	234.10	
For Up To 75, Add	48.40	
For >75 To 150, Add	23.41	
For >500 To 1,000, Deduct	-5.32	
For >1,000 To 2,000, Deduct	-10.47	
For >2,000 To 5,000, Deduct	-15.95	
For >5,000, Deduct	-24.99	
33 01 30 71-0109 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	273.12	
For Up To 75, Add	56.47	
For >75 To 150, Add	27.31	
For >500 To 1,000, Deduct	-6.20	
For >1,000 To 2,000, Deduct	-12.22	
For >2,000 To 5,000, Deduct	-18.60	
For >5,000, Deduct	-29.16	
33 01 30 71-0110 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	312.14	
For Up To 75, Add	64.54	
For >75 To 150, Add	31.21	
For >500 To 1,000, Deduct	-7.09	
For >1,000 To 2,000, Deduct	-13.96	
For >2,000 To 5,000, Deduct	-21.26	
For >5,000, Deduct	-33.33	
33 01 30 71-0111 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	351.15	
For Up To 75, Add	72.61	
For >75 To 150, Add	35.12	
For >500 To 1,000, Deduct	-7.97	
For >1,000 To 2,000, Deduct	-15.71	
For >2,000 To 5,000, Deduct	-23.92	
For >5,000, Deduct	-37.49	
33 01 30 71-0112 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	390.17	
For Up To 75, Add	80.67	
For >75 To 150, Add	39.02	
For >500 To 1,000, Deduct	-8.86	
For >1,000 To 2,000, Deduct	-17.45	
For >2,000 To 5,000, Deduct	-26.58	
For >5,000, Deduct	-41.66	
33 01 30 71-0113 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	429.19	
For Up To 75, Add	88.74	
For >75 To 150, Add	42.92	
For >500 To 1,000, Deduct	-9.75	
For >1,000 To 2,000, Deduct	-19.20	
For >2,000 To 5,000, Deduct	-29.24	
For >5,000, Deduct	-45.82	
33 01 30 71-0114 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	468.21	
For Up To 75, Add	96.81	
For >75 To 150, Add	46.82	
For >500 To 1,000, Deduct	-10.63	
For >1,000 To 2,000, Deduct	-20.95	
For >2,000 To 5,000, Deduct	-31.89	
For >5,000, Deduct	-49.99	
33 01 30 71-0115 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	507.23	
For Up To 75, Add	104.88	
For >75 To 150, Add	50.72	
For >500 To 1,000, Deduct	-11.52	
For >1,000 To 2,000, Deduct	-22.69	
For >2,000 To 5,000, Deduct	-34.55	
For >5,000, Deduct	-54.15	
33 01 30 71-0116 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	546.24	
For Up To 75, Add	112.94	
For >75 To 150, Add	54.62	
For >500 To 1,000, Deduct	-12.40	
For >1,000 To 2,000, Deduct	-24.44	
For >2,000 To 5,000, Deduct	-37.21	
For >5,000, Deduct	-58.32	
33 01 30 71-0117 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	585.25	
For Up To 75, Add	121.01	
For >75 To 150, Add	58.53	
For >500 To 1,000, Deduct	-13.29	
For >1,000 To 2,000, Deduct	-26.18	
For >2,000 To 5,000, Deduct	-39.87	
For >5,000, Deduct	-62.48	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0118 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	624.27	
For Up To 75, Add	129.08	
For >75 To 150, Add	62.43	
For >500 To 1,000, Deduct	-14.17	
For >1,000 To 2,000, Deduct	-27.93	
For >2,000 To 5,000, Deduct	-42.52	
For >5,000, Deduct	-66.65	
33 01 30 71-0119 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	663.29	
For Up To 75, Add	137.14	
For >75 To 150, Add	66.33	
For >500 To 1,000, Deduct	-15.06	
For >1,000 To 2,000, Deduct	-29.67	
For >2,000 To 5,000, Deduct	-45.18	
For >5,000, Deduct	-70.82	
33 01 30 71-0120 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	702.31	
For Up To 75, Add	145.21	
For >75 To 150, Add	70.23	
For >500 To 1,000, Deduct	-15.95	
For >1,000 To 2,000, Deduct	-31.42	
For >2,000 To 5,000, Deduct	-47.84	
For >5,000, Deduct	-74.98	
33 01 30 71-0121 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	741.33	
For Up To 75, Add	153.28	
For >75 To 150, Add	74.13	
For >500 To 1,000, Deduct	-16.83	
For >1,000 To 2,000, Deduct	-33.16	
For >2,000 To 5,000, Deduct	-50.50	
For >5,000, Deduct	-79.15	
33 01 30 71-0122 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	780.34	
For Up To 75, Add	161.35	
For >75 To 150, Add	78.03	
For >500 To 1,000, Deduct	-17.72	
For >1,000 To 2,000, Deduct	-34.91	
For >2,000 To 5,000, Deduct	-53.15	
For >5,000, Deduct	-83.31	
33 01 30 71-0123 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane	24.84	

33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)

33 01 30 72-0001	Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.	
33 01 30 72-0002	Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)
33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,684.14
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,806.89
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	4,210.34
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	5,613.78
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	842.06
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,403.45
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,754.31
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,245.52
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)	1,403.45
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	3,368.27
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	5,613.78
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP)	8,420.68
Note: Need to mix wet material in bag prior to installation.	
33 01 30 72-0015	Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) (33 01 30 72-0001)
Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.	
33 01 30 72-0016	4.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0017	LF		4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	25.58	
			For Vinylester Resin, Add	7.60	
			For Epoxy Resin, Add	0.90	
			For Up To >10, Add	49.62	
			For >10 To 25, Add	39.54	
			For >25 To 50, Add	24.27	
			For >50 To 100, Add	12.13	
			For >500 To 1,000, Deduct	-1.65	
			For >1,000 To 2,000, Deduct	-2.66	
			For >2,000 To 5,000, Deduct	-4.98	
			For >5,000, Deduct	-8.06	
33 01 30 72-0018	LF		4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	31.53	
			For Vinylester Resin, Add	11.76	
			For Epoxy Resin, Add	1.39	
			For Up To >10, Add	52.59	
			For >10 To 25, Add	41.03	
			For >25 To 50, Add	25.46	
			For >50 To 100, Add	12.73	
			For >500 To 1,000, Deduct	-1.94	
			For >1,000 To 2,000, Deduct	-3.10	
			For >2,000 To 5,000, Deduct	-5.70	
			For >5,000, Deduct	-9.25	
33 01 30 72-0019	LF		4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	37.48	
			For Vinylester Resin, Add	15.93	
			For Epoxy Resin, Add	1.88	
			For Up To >10, Add	55.57	
			For >10 To 25, Add	42.51	
			For >25 To 50, Add	26.65	
			For >50 To 100, Add	13.32	
			For >500 To 1,000, Deduct	-2.24	
			For >1,000 To 2,000, Deduct	-3.55	
			For >2,000 To 5,000, Deduct	-6.41	
			For >5,000, Deduct	-10.44	
33 01 30 72-0020	LF		4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	50.80	
			For Vinylester Resin, Add	24.26	
			For Epoxy Resin, Add	2.86	
			For Up To >10, Add	65.75	
			For >10 To 25, Add	49.02	
			For >25 To 50, Add	31.14	
			For >50 To 100, Add	15.57	
			For >500 To 1,000, Deduct	-2.94	
			For >1,000 To 2,000, Deduct	-4.62	
			For >2,000 To 5,000, Deduct	-8.19	
			For >5,000, Deduct	-13.39	
33 01 30 72-0021	LF		4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	64.10	
			For Vinylester Resin, Add	32.59	
			For Epoxy Resin, Add	3.84	
			For Up To >10, Add	75.90	
			For >10 To 25, Add	55.49	
			For >25 To 50, Add	35.62	
			For >50 To 100, Add	17.81	
			For >500 To 1,000, Deduct	-3.64	
			For >1,000 To 2,000, Deduct	-5.68	
			For >2,000 To 5,000, Deduct	-9.97	
			For >5,000, Deduct	-16.33	
33 01 30 72-0022			6mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0023	LF		6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	36.66	
			For Vinylester Resin, Add	15.35	
			For Epoxy Resin, Add	1.81	
			For Up To >10, Add	55.16	
			For >10 To 25, Add	42.31	
			For >25 To 50, Add	26.48	
			For >50 To 100, Add	13.24	
			For >500 To 1,000, Deduct	-2.20	
			For >1,000 To 2,000, Deduct	-3.49	
			For >2,000 To 5,000, Deduct	-6.31	
			For >5,000, Deduct	-10.28	
33 01 30 72-0024	LF		6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	44.60	
			For Vinylester Resin, Add	20.91	
			For Epoxy Resin, Add	2.46	
			For Up To >10, Add	59.13	
			For >10 To 25, Add	44.29	
			For >25 To 50, Add	28.07	
			For >50 To 100, Add	14.03	
			For >500 To 1,000, Deduct	-2.60	
			For >1,000 To 2,000, Deduct	-4.08	
			For >2,000 To 5,000, Deduct	-7.27	
			For >5,000, Deduct	-11.87	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0025	LF		6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	61.88	
			For Vinlyester Resin, Add	32.02	
			For Epoxy Resin, Add	3.77	
			For Up To >10, Add	71.29	
			For >10 To 25, Add	51.79	
			For >25 To 50, Add	33.36	
			For >50 To 100, Add	16.68	
			For >500 To 1,000, Deduct	-3.50	
			For >1,000 To 2,000, Deduct	-5.45	
			For >2,000 To 5,000, Deduct	-9.52	
			For >5,000, Deduct	-15.60	
33 01 30 72-0026	LF		6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	79.15	
			For Vinlyester Resin, Add	43.13	
			For Epoxy Resin, Add	5.08	
			For Up To >10, Add	83.43	
			For >10 To 25, Add	59.25	
			For >25 To 50, Add	38.63	
			For >50 To 100, Add	19.32	
			For >500 To 1,000, Deduct	-4.40	
			For >1,000 To 2,000, Deduct	-6.81	
			For >2,000 To 5,000, Deduct	-11.78	
			For >5,000, Deduct	-19.34	
33 01 30 72-0027	LF		6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	96.57	
			For Vinlyester Resin, Add	54.24	
			For Epoxy Resin, Add	6.39	
			For Up To >10, Add	96.01	
			For >10 To 25, Add	67.10	
			For >25 To 50, Add	44.13	
			For >50 To 100, Add	22.07	
			For >500 To 1,000, Deduct	-5.31	
			For >1,000 To 2,000, Deduct	-8.20	
			For >2,000 To 5,000, Deduct	-14.07	
			For >5,000, Deduct	-23.13	
33 01 30 72-0028	LF		6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	114.40	
			For Vinlyester Resin, Add	65.35	
			For Epoxy Resin, Add	7.70	
			For Up To >10, Add	109.83	
			For >10 To 25, Add	75.96	
			For >25 To 50, Add	50.25	
			For >50 To 100, Add	25.12	
			For >500 To 1,000, Deduct	-6.25	
			For >1,000 To 2,000, Deduct	-9.63	
			For >2,000 To 5,000, Deduct	-16.46	
			For >5,000, Deduct	-27.09	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0030	LF		7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	51.48	
			For Vinlyester Resin, Add	25.73	
			For Epoxy Resin, Add	3.03	
			For Up To >10, Add	62.57	
			For >10 To 25, Add	46.01	
			For >25 To 50, Add	29.45	
			For >50 To 100, Add	14.72	
			For >500 To 1,000, Deduct	-2.94	
			For >1,000 To 2,000, Deduct	-4.60	
			For >2,000 To 5,000, Deduct	-8.09	
			For >5,000, Deduct	-13.24	
33 01 30 72-0031	LF		7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	72.72	
			For Vinlyester Resin, Add	39.61	
			For Epoxy Resin, Add	4.67	
			For Up To >10, Add	76.71	
			For >10 To 25, Add	54.50	
			For >25 To 50, Add	35.53	
			For >50 To 100, Add	17.76	
			For >500 To 1,000, Deduct	-4.04	
			For >1,000 To 2,000, Deduct	-6.26	
			For >2,000 To 5,000, Deduct	-10.82	
			For >5,000, Deduct	-17.77	
33 01 30 72-0032	LF		7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	93.97	
			For Vinlyester Resin, Add	53.50	
			For Epoxy Resin, Add	6.31	
			For Up To >10, Add	90.84	
			For >10 To 25, Add	62.96	
			For >25 To 50, Add	41.60	
			For >50 To 100, Add	20.80	
			For >500 To 1,000, Deduct	-5.14	
			For >1,000 To 2,000, Deduct	-7.92	
			For >2,000 To 5,000, Deduct	-13.56	
			For >5,000, Deduct	-22.30	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	115.35	
For Vinylster Resin, Add	67.38	
For Epoxy Resin, Add	7.94	
For Up To >10, Add	105.40	
For >10 To 25, Add	71.79	
For >25 To 50, Add	47.89	
For >50 To 100, Add	23.94	
For >500 To 1,000, Deduct	-6.24	
For >1,000 To 2,000, Deduct	-9.61	
For >2,000 To 5,000, Deduct	-16.32	
For >5,000, Deduct	-26.89	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	137.15	
For Vinylster Resin, Add	81.27	
For Epoxy Resin, Add	9.58	
For Up To >10, Add	121.20	
For >10 To 25, Add	81.65	
For >25 To 50, Add	54.80	
For >50 To 100, Add	27.40	
For >500 To 1,000, Deduct	-7.38	
For >1,000 To 2,000, Deduct	-11.34	
For >2,000 To 5,000, Deduct	-19.19	
For >5,000, Deduct	-31.64	
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	169.72	
For Vinylster Resin, Add	102.10	
For Epoxy Resin, Add	12.03	
For Up To >10, Add	144.51	
For >10 To 25, Add	96.12	
For >25 To 50, Add	64.96	
For >50 To 100, Add	32.48	
For >500 To 1,000, Deduct	-9.08	
For >1,000 To 2,000, Deduct	-13.92	
For >2,000 To 5,000, Deduct	-23.47	
For >5,000, Deduct	-38.72	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	202.56	
For Vinylster Resin, Add	122.93	
For Epoxy Resin, Add	14.49	
For Up To >10, Add	168.63	
For >10 To 25, Add	111.26	
For >25 To 50, Add	75.53	
For >50 To 100, Add	37.77	
For >500 To 1,000, Deduct	-10.80	
For >1,000 To 2,000, Deduct	-16.54	
For >2,000 To 5,000, Deduct	-27.81	
For >5,000, Deduct	-45.90	
33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	83.34	
For Vinylster Resin, Add	47.04	
For Epoxy Resin, Add	5.54	
For Up To >10, Add	82.02	
For >10 To 25, Add	57.15	
For >25 To 50, Add	37.65	
For >50 To 100, Add	18.83	
For >500 To 1,000, Deduct	-4.57	
For >1,000 To 2,000, Deduct	-7.06	
For >2,000 To 5,000, Deduct	-12.10	
For >5,000, Deduct	-19.90	
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	108.55	
For Vinylster Resin, Add	63.71	
For Epoxy Resin, Add	7.51	
For Up To >10, Add	98.13	
For >10 To 25, Add	66.60	
For >25 To 50, Add	44.51	
For >50 To 100, Add	22.26	
For >500 To 1,000, Deduct	-5.87	
For >1,000 To 2,000, Deduct	-9.02	
For >2,000 To 5,000, Deduct	-15.31	
For >5,000, Deduct	-25.22	
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	133.91	
For Vinylster Resin, Add	80.37	
For Epoxy Resin, Add	9.47	
For Up To >10, Add	114.68	
For >10 To 25, Add	76.43	
For >25 To 50, Add	51.60	
For >50 To 100, Add	25.80	
For >500 To 1,000, Deduct	-7.17	
For >1,000 To 2,000, Deduct	-11.00	
For >2,000 To 5,000, Deduct	-18.55	
For >5,000, Deduct	-30.60	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0041	LF		9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	159.67	
			For Vinlyester Resin, Add	97.03	
			For Epoxy Resin, Add	11.44	
			For Up To >10, Add	132.46	
			For >10 To 25, Add	87.28	
			For >25 To 50, Add	59.30	
			For >50 To 100, Add	29.65	
			For >500 To 1,000, Deduct	-8.51	
			For >1,000 To 2,000, Deduct	-13.03	
			For >2,000 To 5,000, Deduct	-21.90	
			For >5,000, Deduct	-36.14	
33 01 30 72-0042	LF		9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	198.19	
			For Vinlyester Resin, Add	122.03	
			For Epoxy Resin, Add	14.38	
			For Up To >10, Add	158.75	
			For >10 To 25, Add	103.23	
			For >25 To 50, Add	70.66	
			For >50 To 100, Add	35.33	
			For >500 To 1,000, Deduct	-10.51	
			For >1,000 To 2,000, Deduct	-16.06	
			For >2,000 To 5,000, Deduct	-26.88	
			For >5,000, Deduct	-44.41	
33 01 30 72-0043	LF		9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	236.98	
			For Vinlyester Resin, Add	147.03	
			For Epoxy Resin, Add	17.33	
			For Up To >10, Add	185.84	
			For >10 To 25, Add	119.86	
			For >25 To 50, Add	82.42	
			For >50 To 100, Add	41.21	
			For >500 To 1,000, Deduct	-12.52	
			For >1,000 To 2,000, Deduct	-19.12	
			For >2,000 To 5,000, Deduct	-31.94	
			For >5,000, Deduct	-52.78	
33 01 30 72-0044	LF		9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	274.94	
			For Vinlyester Resin, Add	172.02	
			For Epoxy Resin, Add	20.27	
			For Up To >10, Add	210.47	
			For >10 To 25, Add	134.44	
			For >25 To 50, Add	92.95	
			For >50 To 100, Add	46.47	
			For >500 To 1,000, Deduct	-14.48	
			For >1,000 To 2,000, Deduct	-22.08	
			For >2,000 To 5,000, Deduct	-36.79	
			For >5,000, Deduct	-60.83	
33 01 30 72-0045	LF		9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	313.32	
			For Vinlyester Resin, Add	197.02	
			For Epoxy Resin, Add	23.22	
			For Up To >10, Add	236.31	
			For >10 To 25, Add	150.02	
			For >25 To 50, Add	104.08	
			For >50 To 100, Add	52.04	
			For >500 To 1,000, Deduct	-16.46	
			For >1,000 To 2,000, Deduct	-25.09	
			For >2,000 To 5,000, Deduct	-41.74	
			For >5,000, Deduct	-69.04	
33 01 30 72-0046			10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0047	LF		10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	226.42	
			For Vinlyester Resin, Add	141.79	
			For Epoxy Resin, Add	16.71	
			For Up To >10, Add	172.86	
			For >10 To 25, Add	110.29	
			For >25 To 50, Add	76.30	
			For >50 To 100, Add	38.15	
			For >500 To 1,000, Deduct	-11.92	
			For >1,000 To 2,000, Deduct	-18.17	
			For >2,000 To 5,000, Deduct	-30.27	
			For >5,000, Deduct	-50.06	
33 01 30 72-0048	LF		10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	271.16	
			For Vinlyester Resin, Add	170.95	
			For Epoxy Resin, Add	20.15	
			For Up To >10, Add	202.93	
			For >10 To 25, Add	128.41	
			For >25 To 50, Add	89.25	
			For >50 To 100, Add	44.63	
			For >500 To 1,000, Deduct	-14.23	
			For >1,000 To 2,000, Deduct	-21.68	
			For >2,000 To 5,000, Deduct	-36.04	
			For >5,000, Deduct	-59.62	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0049	LF		10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	315.09	
			For Vinylster Resin, Add	200.12	
			For Epoxy Resin, Add	23.59	
			For Up To >10, Add	230.55	
			For >10 To 25, Add	144.47	
			For >25 To 50, Add	100.98	
			For >50 To 100, Add	50.49	
			For >500 To 1,000, Deduct	-16.48	
			For >1,000 To 2,000, Deduct	-25.09	
			For >2,000 To 5,000, Deduct	-41.61	
			For >5,000, Deduct	-68.86	
33 01 30 72-0050	LF		10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	359.40	
			For Vinylster Resin, Add	229.28	
			For Epoxy Resin, Add	27.02	
			For Up To >10, Add	259.35	
			For >10 To 25, Add	161.54	
			For >25 To 50, Add	113.30	
			For >50 To 100, Add	56.65	
			For >500 To 1,000, Deduct	-18.77	
			For >1,000 To 2,000, Deduct	-28.55	
			For >2,000 To 5,000, Deduct	-47.27	
			For >5,000, Deduct	-78.25	
33 01 30 72-0051	LF		10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	404.29	
			For Vinylster Resin, Add	258.44	
			For Epoxy Resin, Add	30.46	
			For Up To >10, Add	289.87	
			For >10 To 25, Add	180.03	
			For >25 To 50, Add	126.48	
			For >50 To 100, Add	63.24	
			For >500 To 1,000, Deduct	-21.09	
			For >1,000 To 2,000, Deduct	-32.08	
			For >2,000 To 5,000, Deduct	-53.08	
			For >5,000, Deduct	-87.88	
33 01 30 72-0052	LF		10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	449.88	
			For Vinylster Resin, Add	287.61	
			For Epoxy Resin, Add	33.90	
			For Up To >10, Add	322.47	
			For >10 To 25, Add	200.24	
			For >25 To 50, Add	140.69	
			For >50 To 100, Add	70.34	
			For >500 To 1,000, Deduct	-23.47	
			For >1,000 To 2,000, Deduct	-35.69	
			For >2,000 To 5,000, Deduct	-59.06	
			For >5,000, Deduct	-97.78	
33 01 30 72-0053	LF		10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	538.12	
			For Vinylster Resin, Add	345.93	
			For Epoxy Resin, Add	40.77	
			For Up To >10, Add	378.89	
			For >10 To 25, Add	233.37	
			For >25 To 50, Add	164.73	
			For >50 To 100, Add	82.37	
			For >500 To 1,000, Deduct	-28.00	
			For >1,000 To 2,000, Deduct	-42.56	
			For >2,000 To 5,000, Deduct	-70.29	
			For >5,000, Deduct	-116.41	
33 01 30 72-0054			12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0055	LF		12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	254.42	
			For Vinylster Resin, Add	161.39	
			For Epoxy Resin, Add	19.02	
			For Up To >10, Add	186.86	
			For >10 To 25, Add	117.29	
			For >25 To 50, Add	81.90	
			For >50 To 100, Add	40.95	
			For >500 To 1,000, Deduct	-13.32	
			For >1,000 To 2,000, Deduct	-20.27	
			For >2,000 To 5,000, Deduct	-33.63	
			For >5,000, Deduct	-55.66	
33 01 30 72-0056	LF		12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	305.12	
			For Vinylster Resin, Add	194.73	
			For Epoxy Resin, Add	22.95	
			For Up To >10, Add	219.91	
			For >10 To 25, Add	136.90	
			For >25 To 50, Add	96.05	
			For >50 To 100, Add	48.02	
			For >500 To 1,000, Deduct	-15.93	
			For >1,000 To 2,000, Deduct	-24.23	
			For >2,000 To 5,000, Deduct	-40.12	
			For >5,000, Deduct	-66.41	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0057	LF		12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	354.99	
			For Vinlyester Resin, Add	228.05	
			For Epoxy Resin, Add	26.88	
			For Up To >10, Add	250.50	
			For >10 To 25, Add	154.45	
			For >25 To 50, Add	108.96	
			For >50 To 100, Add	54.48	
			For >500 To 1,000, Deduct	-18.48	
			For >1,000 To 2,000, Deduct	-28.08	
			For >2,000 To 5,000, Deduct	-46.39	
			For >5,000, Deduct	-76.84	
33 01 30 72-0058	LF		12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	405.26	
			For Vinlyester Resin, Add	261.38	
			For Epoxy Resin, Add	30.81	
			For Up To >10, Add	282.28	
			For >10 To 25, Add	173.00	
			For >25 To 50, Add	122.47	
			For >50 To 100, Add	61.24	
			For >500 To 1,000, Deduct	-21.06	
			For >1,000 To 2,000, Deduct	-31.99	
			For >2,000 To 5,000, Deduct	-52.77	
			For >5,000, Deduct	-87.42	
33 01 30 72-0059	LF		12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	456.10	
			For Vinlyester Resin, Add	294.71	
			For Epoxy Resin, Add	34.73	
			For Up To >10, Add	315.78	
			For >10 To 25, Add	192.98	
			For >25 To 50, Add	136.84	
			For >50 To 100, Add	68.42	
			For >500 To 1,000, Deduct	-23.68	
			For >1,000 To 2,000, Deduct	-35.96	
			For >2,000 To 5,000, Deduct	-59.29	
			For >5,000, Deduct	-98.24	
33 01 30 72-0060	LF		12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	507.63	
			For Vinlyester Resin, Add	328.03	
			For Epoxy Resin, Add	38.66	
			For Up To >10, Add	351.34	
			For >10 To 25, Add	214.68	
			For >25 To 50, Add	152.24	
			For >50 To 100, Add	76.12	
			For >500 To 1,000, Deduct	-26.36	
			For >1,000 To 2,000, Deduct	-40.02	
			For >2,000 To 5,000, Deduct	-65.99	
			For >5,000, Deduct	-109.33	
33 01 30 72-0061	LF		12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	607.78	
			For Vinlyester Resin, Add	394.70	
			For Epoxy Resin, Add	46.52	
			For Up To >10, Add	413.72	
			For >10 To 25, Add	250.79	
			For >25 To 50, Add	178.67	
			For >50 To 100, Add	89.33	
			For >500 To 1,000, Deduct	-31.49	
			For >1,000 To 2,000, Deduct	-47.78	
			For >2,000 To 5,000, Deduct	-78.64	
			For >5,000, Deduct	-130.34	
33 01 30 72-0062	LF		12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	709.18	
			For Vinlyester Resin, Add	461.35	
			For Epoxy Resin, Add	54.37	
			For Up To >10, Add	479.87	
			For >10 To 25, Add	290.04	
			For >25 To 50, Add	206.98	
			For >50 To 100, Add	103.49	
			For >500 To 1,000, Deduct	-36.71	
			For >1,000 To 2,000, Deduct	-55.69	
			For >2,000 To 5,000, Deduct	-91.62	
			For >5,000, Deduct	-151.86	
33 01 30 72-0063	LF		12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	812.81	
			For Vinlyester Resin, Add	528.00	
			For Epoxy Resin, Add	62.23	
			For Up To >10, Add	552.71	
			For >10 To 25, Add	334.87	
			For >25 To 50, Add	238.64	
			For >50 To 100, Add	119.32	
			For >500 To 1,000, Deduct	-42.10	
			For >1,000 To 2,000, Deduct	-63.89	
			For >2,000 To 5,000, Deduct	-105.14	
			For >5,000, Deduct	-174.27	

33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0065	LF		13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	282.19	
			For Vinlyester Resin, Add	180.83	
			For Epoxy Resin, Add	21.31	
			For Up To >10, Add	200.75	
			For >10 To 25, Add	124.23	
			For >25 To 50, Add	87.46	
			For >50 To 100, Add	43.73	
			For >500 To 1,000, Deduct	-14.71	
			For >1,000 To 2,000, Deduct	-22.36	
			For >2,000 To 5,000, Deduct	-36.96	
			For >5,000, Deduct	-61.21	
33 01 30 72-0066	LF		13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	338.84	
			For Vinlyester Resin, Add	218.33	
			For Epoxy Resin, Add	25.73	
			For Up To >10, Add	236.77	
			For >10 To 25, Add	145.33	
			For >25 To 50, Add	102.79	
			For >50 To 100, Add	51.40	
			For >500 To 1,000, Deduct	-17.62	
			For >1,000 To 2,000, Deduct	-26.76	
			For >2,000 To 5,000, Deduct	-44.16	
			For >5,000, Deduct	-73.16	
33 01 30 72-0067	LF		13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	394.66	
			For Vinlyester Resin, Add	255.82	
			For Epoxy Resin, Add	30.15	
			For Up To >10, Add	270.33	
			For >10 To 25, Add	164.37	
			For >25 To 50, Add	116.89	
			For >50 To 100, Add	58.45	
			For >500 To 1,000, Deduct	-20.46	
			For >1,000 To 2,000, Deduct	-31.06	
			For >2,000 To 5,000, Deduct	-51.16	
			For >5,000, Deduct	-84.77	
33 01 30 72-0068	LF		13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	450.88	
			For Vinlyester Resin, Add	293.31	
			For Epoxy Resin, Add	34.57	
			For Up To >10, Add	305.09	
			For >10 To 25, Add	184.41	
			For >25 To 50, Add	131.59	
			For >50 To 100, Add	65.80	
			For >500 To 1,000, Deduct	-23.34	
			For >1,000 To 2,000, Deduct	-35.41	
			For >2,000 To 5,000, Deduct	-58.25	
			For >5,000, Deduct	-96.55	
33 01 30 72-0069	LF		13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	507.68	
			For Vinlyester Resin, Add	330.81	
			For Epoxy Resin, Add	38.99	
			For Up To >10, Add	341.57	
			For >10 To 25, Add	205.87	
			For >25 To 50, Add	147.15	
			For >50 To 100, Add	73.58	
			For >500 To 1,000, Deduct	-26.26	
			For >1,000 To 2,000, Deduct	-39.83	
			For >2,000 To 5,000, Deduct	-65.48	
			For >5,000, Deduct	-108.55	
33 01 30 72-0070	LF		13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	565.16	
			For Vinlyester Resin, Add	368.31	
			For Epoxy Resin, Add	43.41	
			For Up To >10, Add	380.11	
			For >10 To 25, Add	229.06	
			For >25 To 50, Add	163.75	
			For >50 To 100, Add	81.87	
			For >500 To 1,000, Deduct	-29.23	
			For >1,000 To 2,000, Deduct	-44.34	
			For >2,000 To 5,000, Deduct	-72.89	
			For >5,000, Deduct	-120.83	
33 01 30 72-0071	LF		13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	677.21	
			For Vinlyester Resin, Add	443.30	
			For Epoxy Resin, Add	52.25	
			For Up To >10, Add	448.43	
			For >10 To 25, Add	268.15	
			For >25 To 50, Add	192.55	
			For >50 To 100, Add	96.28	
			For >500 To 1,000, Deduct	-34.96	
			For >1,000 To 2,000, Deduct	-52.99	
			For >2,000 To 5,000, Deduct	-86.98	
			For >5,000, Deduct	-144.23	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0072	LF		13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	790.51	
			For Vinlyester Resin, Add	518.28	
			For Epoxy Resin, Add	61.08	
			For Up To >10, Add	520.53	
			For >10 To 25, Add	310.38	
			For >25 To 50, Add	223.25	
			For >50 To 100, Add	111.62	
			For >500 To 1,000, Deduct	-40.78	
			For >1,000 To 2,000, Deduct	-61.79	
			For >2,000 To 5,000, Deduct	-101.38	
			For >5,000, Deduct	-168.12	
33 01 30 72-0073	LF		13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	906.05	
			For Vinlyester Resin, Add	593.27	
			For Epoxy Resin, Add	69.92	
			For Up To >10, Add	599.33	
			For >10 To 25, Add	358.18	
			For >25 To 50, Add	257.29	
			For >50 To 100, Add	128.64	
			For >500 To 1,000, Deduct	-46.77	
			For >1,000 To 2,000, Deduct	-70.88	
			For >2,000 To 5,000, Deduct	-116.33	
			For >5,000, Deduct	-192.91	
33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe _(33 01 30 72-0015)					
33 01 30 72-0075	LF		15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	309.72	
			For Vinlyester Resin, Add	200.10	
			For Epoxy Resin, Add	23.58	
			For Up To >10, Add	214.51	
			For >10 To 25, Add	131.12	
			For >25 To 50, Add	92.96	
			For >50 To 100, Add	46.48	
			For >500 To 1,000, Deduct	-16.08	
			For >1,000 To 2,000, Deduct	-24.42	
			For >2,000 To 5,000, Deduct	-40.27	
			For >5,000, Deduct	-66.72	
33 01 30 72-0076	LF		15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	372.32	
			For Vinlyester Resin, Add	241.77	
			For Epoxy Resin, Add	28.49	
			For Up To >10, Add	253.51	
			For >10 To 25, Add	153.70	
			For >25 To 50, Add	109.49	
			For >50 To 100, Add	54.74	
			For >500 To 1,000, Deduct	-19.29	
			For >1,000 To 2,000, Deduct	-29.27	
			For >2,000 To 5,000, Deduct	-48.18	
			For >5,000, Deduct	-79.85	
33 01 30 72-0077	LF		15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	434.09	
			For Vinlyester Resin, Add	283.42	
			For Epoxy Resin, Add	33.40	
			For Up To >10, Add	290.05	
			For >10 To 25, Add	174.22	
			For >25 To 50, Add	124.78	
			For >50 To 100, Add	62.39	
			For >500 To 1,000, Deduct	-22.43	
			For >1,000 To 2,000, Deduct	-34.02	
			For >2,000 To 5,000, Deduct	-55.89	
			For >5,000, Deduct	-92.66	
33 01 30 72-0078	LF		15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	496.27	
			For Vinlyester Resin, Add	325.09	
			For Epoxy Resin, Add	38.31	
			For Up To >10, Add	327.79	
			For >10 To 25, Add	195.75	
			For >25 To 50, Add	140.67	
			For >50 To 100, Add	70.34	
			For >500 To 1,000, Deduct	-25.61	
			For >1,000 To 2,000, Deduct	-38.81	
			For >2,000 To 5,000, Deduct	-63.69	
			For >5,000, Deduct	-105.63	
33 01 30 72-0079	LF		15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	559.01	
			For Vinlyester Resin, Add	366.74	
			For Epoxy Resin, Add	43.22	
			For Up To >10, Add	367.23	
			For >10 To 25, Add	218.71	
			For >25 To 50, Add	157.42	
			For >50 To 100, Add	78.71	
			For >500 To 1,000, Deduct	-28.83	
			For >1,000 To 2,000, Deduct	-43.68	
			For >2,000 To 5,000, Deduct	-71.64	
			For >5,000, Deduct	-118.82	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0080	LF		15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	622.45	
			For Vinlyester Resin, Add	408.41	
			For Epoxy Resin, Add	48.13	
			For Up To >10, Add	408.75	
			For >10 To 25, Add	243.39	
			For >25 To 50, Add	175.20	
			For >50 To 100, Add	87.60	
			For >500 To 1,000, Deduct	-32.10	
			For >1,000 To 2,000, Deduct	-48.63	
			For >2,000 To 5,000, Deduct	-79.77	
			For >5,000, Deduct	-132.29	
33 01 30 72-0081	LF		15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	746.40	
			For Vinlyester Resin, Add	491.73	
			For Epoxy Resin, Add	57.95	
			For Up To >10, Add	483.03	
			For >10 To 25, Add	285.44	
			For >25 To 50, Add	206.39	
			For >50 To 100, Add	103.19	
			For >500 To 1,000, Deduct	-38.42	
			For >1,000 To 2,000, Deduct	-58.18	
			For >2,000 To 5,000, Deduct	-95.28	
			For >5,000, Deduct	-158.07	
33 01 30 72-0082	LF		15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	871.61	
			For Vinlyester Resin, Add	575.05	
			For Epoxy Resin, Add	67.77	
			For Up To >10, Add	561.08	
			For >10 To 25, Add	330.65	
			For >25 To 50, Add	239.47	
			For >50 To 100, Add	119.73	
			For >500 To 1,000, Deduct	-44.83	
			For >1,000 To 2,000, Deduct	-67.88	
			For >2,000 To 5,000, Deduct	-111.11	
			For >5,000, Deduct	-184.34	
33 01 30 72-0083	LF		15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	999.05	
			For Vinlyester Resin, Add	658.37	
			For Epoxy Resin, Add	77.59	
			For Up To >10, Add	645.83	
			For >10 To 25, Add	381.43	
			For >25 To 50, Add	275.89	
			For >50 To 100, Add	137.94	
			For >500 To 1,000, Deduct	-51.42	
			For >1,000 To 2,000, Deduct	-77.85	
			For >2,000 To 5,000, Deduct	-127.49	
			For >5,000, Deduct	-211.51	
33 01 30 72-0084			16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	405.56	
33 01 30 72-0085	LF		16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	405.56	
			For Vinlyester Resin, Add	265.03	
			For Epoxy Resin, Add	31.24	
			For Up To >10, Add	270.13	
			For >10 To 25, Add	162.01	
			For >25 To 50, Add	116.13	
			For >50 To 100, Add	58.07	
			For >500 To 1,000, Deduct	-20.95	
			For >1,000 To 2,000, Deduct	-31.76	
			For >2,000 To 5,000, Deduct	-52.17	
			For >5,000, Deduct	-86.50	
33 01 30 72-0086	LF		16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	473.29	
			For Vinlyester Resin, Add	310.86	
			For Epoxy Resin, Add	36.64	
			For Up To >10, Add	309.65	
			For >10 To 25, Add	184.02	
			For >25 To 50, Add	132.62	
			For >50 To 100, Add	66.31	
			For >500 To 1,000, Deduct	-24.39	
			For >1,000 To 2,000, Deduct	-36.96	
			For >2,000 To 5,000, Deduct	-60.59	
			For >5,000, Deduct	-100.50	
33 01 30 72-0087	LF		16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	541.42	
			For Vinlyester Resin, Add	356.69	
			For Epoxy Resin, Add	42.04	
			For Up To >10, Add	350.36	
			For >10 To 25, Add	207.04	
			For >25 To 50, Add	149.70	
			For >50 To 100, Add	74.85	
			For >500 To 1,000, Deduct	-27.87	
			For >1,000 To 2,000, Deduct	-42.20	
			For >2,000 To 5,000, Deduct	-69.11	
			For >5,000, Deduct	-114.66	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0088	LF		16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	610.12	
			For Vinlyester Resin, Add	402.52	
			For Epoxy Resin, Add	47.44	
			For Up To >10, Add	392.79	
			For >10 To 25, Add	231.48	
			For >25 To 50, Add	167.64	
			For >50 To 100, Add	83.82	
			For >500 To 1,000, Deduct	-31.38	
			For >1,000 To 2,000, Deduct	-47.51	
			For >2,000 To 5,000, Deduct	-77.78	
			For >5,000, Deduct	-129.04	
33 01 30 72-0089	LF		16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	679.50	
			For Vinlyester Resin, Add	448.34	
			For Epoxy Resin, Add	52.84	
			For Up To >10, Add	437.28	
			For >10 To 25, Add	257.65	
			For >25 To 50, Add	186.61	
			For >50 To 100, Add	93.31	
			For >500 To 1,000, Deduct	-34.95	
			For >1,000 To 2,000, Deduct	-52.91	
			For >2,000 To 5,000, Deduct	-86.61	
			For >5,000, Deduct	-143.70	
33 01 30 72-0090	LF		16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	815.36	
			For Vinlyester Resin, Add	540.00	
			For Epoxy Resin, Add	63.64	
			For Up To >10, Add	517.51	
			For >10 To 25, Add	302.68	
			For >25 To 50, Add	220.18	
			For >50 To 100, Add	110.09	
			For >500 To 1,000, Deduct	-41.87	
			For >1,000 To 2,000, Deduct	-63.35	
			For >2,000 To 5,000, Deduct	-103.55	
			For >5,000, Deduct	-171.86	
33 01 30 72-0091	LF		16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	952.47	
			For Vinlyester Resin, Add	631.65	
			For Epoxy Resin, Add	74.44	
			For Up To >10, Add	601.51	
			For >10 To 25, Add	350.87	
			For >25 To 50, Add	255.64	
			For >50 To 100, Add	127.82	
			For >500 To 1,000, Deduct	-48.88	
			For >1,000 To 2,000, Deduct	-73.94	
			For >2,000 To 5,000, Deduct	-120.81	
			For >5,000, Deduct	-200.52	
33 01 30 72-0092	LF		16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,091.81	
			For Vinlyester Resin, Add	723.30	
			For Epoxy Resin, Add	85.25	
			For Up To >10, Add	692.21	
			For >10 To 25, Add	404.62	
			For >25 To 50, Add	294.44	
			For >50 To 100, Add	147.22	
			For >500 To 1,000, Deduct	-56.05	
			For >1,000 To 2,000, Deduct	-84.81	
			For >2,000 To 5,000, Deduct	-138.62	
			For >5,000, Deduct	-230.07	
33 01 30 72-0093	LF		16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,230.20	
			For Vinlyester Resin, Add	814.96	
			For Epoxy Resin, Add	96.05	
			For Up To >10, Add	780.03	
			For >10 To 25, Add	455.98	
			For >25 To 50, Add	331.80	
			For >50 To 100, Add	165.90	
			For >500 To 1,000, Deduct	-63.16	
			For >1,000 To 2,000, Deduct	-95.56	
			For >2,000 To 5,000, Deduct	-156.20	
			For >5,000, Deduct	-259.23	
33 01 30 72-0094			18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0095	LF		18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	439.29	
			For Vinlyester Resin, Add	288.15	
			For Epoxy Resin, Add	33.96	
			For Up To >10, Add	288.77	
			For >10 To 25, Add	172.04	
			For >25 To 50, Add	123.80	
			For >50 To 100, Add	61.90	
			For >500 To 1,000, Deduct	-22.66	
			For >1,000 To 2,000, Deduct	-34.33	
			For >2,000 To 5,000, Deduct	-56.31	
			For >5,000, Deduct	-93.39	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	513.09	
For Vinlyester Resin, Add	338.14	
For Epoxy Resin, Add	39.85	
For Up To >10, Add	331.62	
For >10 To 25, Add	195.84	
For >25 To 50, Add	141.66	
For >50 To 100, Add	70.83	
For >500 To 1,000, Deduct	-26.41	
For >1,000 To 2,000, Deduct	-39.98	
For >2,000 To 5,000, Deduct	-65.47	
For >5,000, Deduct	-108.62	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	587.18	
For Vinlyester Resin, Add	388.14	
For Epoxy Resin, Add	45.74	
For Up To >10, Add	375.34	
For >10 To 25, Add	220.37	
For >25 To 50, Add	159.95	
For >50 To 100, Add	79.97	
For >500 To 1,000, Deduct	-30.18	
For >1,000 To 2,000, Deduct	-45.67	
For >2,000 To 5,000, Deduct	-74.71	
For >5,000, Deduct	-123.98	
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	661.97	
For Vinlyester Resin, Add	438.13	
For Epoxy Resin, Add	51.64	
For Up To >10, Add	421.16	
For >10 To 25, Add	246.65	
For >25 To 50, Add	179.29	
For >50 To 100, Add	89.64	
For >500 To 1,000, Deduct	-34.00	
For >1,000 To 2,000, Deduct	-51.45	
For >2,000 To 5,000, Deduct	-84.13	
For >5,000, Deduct	-139.61	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	737.31	
For Vinlyester Resin, Add	488.12	
For Epoxy Resin, Add	57.53	
For Up To >10, Add	468.66	
For >10 To 25, Add	274.33	
For >25 To 50, Add	199.46	
For >50 To 100, Add	99.73	
For >500 To 1,000, Deduct	-37.87	
For >1,000 To 2,000, Deduct	-57.30	
For >2,000 To 5,000, Deduct	-93.68	
For >5,000, Deduct	-155.46	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	886.18	
For Vinlyester Resin, Add	588.11	
For Epoxy Resin, Add	69.31	
For Up To >10, Add	558.17	
For >10 To 25, Add	325.11	
For >25 To 50, Add	237.08	
For >50 To 100, Add	118.54	
For >500 To 1,000, Deduct	-45.46	
For >1,000 To 2,000, Deduct	-68.77	
For >2,000 To 5,000, Deduct	-112.33	
For >5,000, Deduct	-186.44	
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,035.62	
For Vinlyester Resin, Add	688.09	
For Epoxy Resin, Add	81.10	
For Up To >10, Add	649.39	
For >10 To 25, Add	377.32	
For >25 To 50, Add	275.54	
For >50 To 100, Add	137.77	
For >500 To 1,000, Deduct	-53.10	
For >1,000 To 2,000, Deduct	-80.30	
For >2,000 To 5,000, Deduct	-131.12	
For >5,000, Deduct	-217.65	
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,187.29	
For Vinlyester Resin, Add	788.07	
For Epoxy Resin, Add	92.88	
For Up To >10, Add	747.32	
For >10 To 25, Add	435.13	
For >25 To 50, Add	317.37	
For >50 To 100, Add	158.68	
For >500 To 1,000, Deduct	-60.90	
For >1,000 To 2,000, Deduct	-92.12	
For >2,000 To 5,000, Deduct	-150.47	
For >5,000, Deduct	-249.75	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0103	LF		18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,337.99	
			For Vinlyester Resin, Add	888.06	
			For Epoxy Resin, Add	104.66	
			For Up To >10, Add	842.32	
			For >10 To 25, Add	490.49	
			For >25 To 50, Add	357.73	
			For >50 To 100, Add	178.86	
			For >500 To 1,000, Deduct	-68.63	
			For >1,000 To 2,000, Deduct	-103.82	
			For >2,000 To 5,000, Deduct	-169.57	
			For >5,000, Deduct	-281.46	
33 01 30 72-0104	LF		18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,488.55	
			For Vinlyester Resin, Add	988.05	
			For Epoxy Resin, Add	116.45	
			For Up To >10, Add	936.90	
			For >10 To 25, Add	545.50	
			For >25 To 50, Add	397.88	
			For >50 To 100, Add	198.94	
			For >500 To 1,000, Deduct	-76.35	
			For >1,000 To 2,000, Deduct	-115.49	
			For >2,000 To 5,000, Deduct	-188.64	
			For >5,000, Deduct	-313.12	
33 01 30 72-0105	LF		18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,639.67	
			For Vinlyester Resin, Add	1,088.04	
			For Epoxy Resin, Add	128.23	
			For Up To >10, Add	1,033.16	
			For >10 To 25, Add	601.91	
			For >25 To 50, Add	438.86	
			For >50 To 100, Add	219.43	
			For >500 To 1,000, Deduct	-84.12	
			For >1,000 To 2,000, Deduct	-127.24	
			For >2,000 To 5,000, Deduct	-207.85	
			For >5,000, Deduct	-345.00	
33 01 30 72-0106	LF		18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,790.36	
			For Vinlyester Resin, Add	1,188.02	
			For Epoxy Resin, Add	140.02	
			For Up To >10, Add	1,128.16	
			For >10 To 25, Add	657.27	
			For >25 To 50, Add	479.22	
			For >50 To 100, Add	239.61	
			For >500 To 1,000, Deduct	-91.65	
			For >1,000 To 2,000, Deduct	-138.94	
			For >2,000 To 5,000, Deduct	-226.96	
			For >5,000, Deduct	-376.71	
33 01 30 72-0107			19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	473.19	
33 01 30 72-0108	LF		19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	473.19	
			For Vinlyester Resin, Add	311.09	
			For Epoxy Resin, Add	36.66	
			For Up To >10, Add	308.52	
			For >10 To 25, Add	183.03	
			For >25 To 50, Add	132.04	
			For >50 To 100, Add	66.02	
			For >500 To 1,000, Deduct	-24.38	
			For >1,000 To 2,000, Deduct	-36.93	
			For >2,000 To 5,000, Deduct	-60.52	
			For >5,000, Deduct	-100.39	
33 01 30 72-0109	LF		19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	552.95	
			For Vinlyester Resin, Add	365.25	
			For Epoxy Resin, Add	43.05	
			For Up To >10, Add	354.38	
			For >10 To 25, Add	208.35	
			For >25 To 50, Add	151.10	
			For >50 To 100, Add	75.55	
			For >500 To 1,000, Deduct	-28.43	
			For >1,000 To 2,000, Deduct	-43.03	
			For >2,000 To 5,000, Deduct	-70.40	
			For >5,000, Deduct	-116.82	
33 01 30 72-0110	LF		19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	633.12	
			For Vinlyester Resin, Add	419.41	
			For Epoxy Resin, Add	49.43	
			For Up To >10, Add	401.46	
			For >10 To 25, Add	234.69	
			For >25 To 50, Add	170.77	
			For >50 To 100, Add	85.39	
			For >500 To 1,000, Deduct	-32.51	
			For >1,000 To 2,000, Deduct	-49.18	
			For >2,000 To 5,000, Deduct	-80.39	
			For >5,000, Deduct	-133.42	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0111	LF		19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	713.58	
			For Vinlyester Resin, Add	473.57	
			For Epoxy Resin, Add	55.81	
			For Up To >10, Add	449.42	
			For >10 To 25, Add	261.76	
			For >25 To 50, Add	190.88	
			For >50 To 100, Add	95.44	
			For >500 To 1,000, Deduct	-36.61	
			For >1,000 To 2,000, Deduct	-55.37	
			For >2,000 To 5,000, Deduct	-90.45	
			For >5,000, Deduct	-150.13	
33 01 30 72-0112	LF		19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	795.17	
			For Vinlyester Resin, Add	527.73	
			For Epoxy Resin, Add	62.20	
			For Up To >10, Add	500.76	
			For >10 To 25, Add	291.65	
			For >25 To 50, Add	212.69	
			For >50 To 100, Add	106.34	
			For >500 To 1,000, Deduct	-40.79	
			For >1,000 To 2,000, Deduct	-61.70	
			For >2,000 To 5,000, Deduct	-100.79	
			For >5,000, Deduct	-167.29	
33 01 30 72-0113	LF		19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	957.20	
			For Vinlyester Resin, Add	636.05	
			For Epoxy Resin, Add	74.96	
			For Up To >10, Add	600.00	
			For >10 To 25, Add	348.56	
			For >25 To 50, Add	254.57	
			For >50 To 100, Add	127.28	
			For >500 To 1,000, Deduct	-49.07	
			For >1,000 To 2,000, Deduct	-74.22	
			For >2,000 To 5,000, Deduct	-121.18	
			For >5,000, Deduct	-201.15	
33 01 30 72-0114	LF		19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,119.66	
			For Vinlyester Resin, Add	744.37	
			For Epoxy Resin, Add	87.73	
			For Up To >10, Add	700.53	
			For >10 To 25, Add	406.55	
			For >25 To 50, Add	297.10	
			For >50 To 100, Add	148.55	
			For >500 To 1,000, Deduct	-57.39	
			For >1,000 To 2,000, Deduct	-86.79	
			For >2,000 To 5,000, Deduct	-141.68	
			For >5,000, Deduct	-235.19	
33 01 30 72-0115	LF		19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,283.10	
			For Vinlyester Resin, Add	852.68	
			For Epoxy Resin, Add	100.49	
			For Up To >10, Add	804.00	
			For >10 To 25, Add	466.98	
			For >25 To 50, Add	341.09	
			For >50 To 100, Add	170.55	
			For >500 To 1,000, Deduct	-65.78	
			For >1,000 To 2,000, Deduct	-99.48	
			For >2,000 To 5,000, Deduct	-162.42	
			For >5,000, Deduct	-269.62	
33 01 30 72-0116	LF		19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,446.12	
			For Vinlyester Resin, Add	961.00	
			For Epoxy Resin, Add	113.26	
			For Up To >10, Add	906.21	
			For >10 To 25, Add	526.37	
			For >25 To 50, Add	384.46	
			For >50 To 100, Add	192.23	
			For >500 To 1,000, Deduct	-74.14	
			For >1,000 To 2,000, Deduct	-112.12	
			For >2,000 To 5,000, Deduct	-183.06	
			For >5,000, Deduct	-303.88	
33 01 30 72-0117	LF		19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,609.15	
			For Vinlyester Resin, Add	1,069.32	
			For Epoxy Resin, Add	126.03	
			For Up To >10, Add	1,008.45	
			For >10 To 25, Add	585.78	
			For >25 To 50, Add	427.85	
			For >50 To 100, Add	213.92	
			For >500 To 1,000, Deduct	-82.50	
			For >1,000 To 2,000, Deduct	-124.76	
			For >2,000 To 5,000, Deduct	-203.70	
			For >5,000, Deduct	-338.14	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0118	LF		19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,773.84	
			For Vinlyester Resin, Add	1,177.64	
			For Epoxy Resin, Add	138.79	
			For Up To >10, Add	1,115.67	
			For >10 To 25, Add	649.34	
			For >25 To 50, Add	473.72	
			For >50 To 100, Add	236.86	
			For >500 To 1,000, Deduct	-90.98	
			For >1,000 To 2,000, Deduct	-137.61	
			For >2,000 To 5,000, Deduct	-224.76	
			For >5,000, Deduct	-373.07	
33 01 30 72-0119	LF		19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,937.00	
			For Vinlyester Resin, Add	1,285.95	
			For Epoxy Resin, Add	151.56	
			For Up To >10, Add	1,218.33	
			For >10 To 25, Add	709.09	
			For >25 To 50, Add	517.31	
			For >50 To 100, Add	258.65	
			For >500 To 1,000, Deduct	-99.35	
			For >1,000 To 2,000, Deduct	-150.27	
			For >2,000 To 5,000, Deduct	-245.43	
			For >5,000, Deduct	-407.39	
33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0121	LF		21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	506.71	
			For Vinlyester Resin, Add	333.87	
			For Epoxy Resin, Add	39.35	
			For Up To >10, Add	327.73	
			For >10 To 25, Add	193.62	
			For >25 To 50, Add	140.02	
			For >50 To 100, Add	70.01	
			For >500 To 1,000, Deduct	-26.08	
			For >1,000 To 2,000, Deduct	-39.49	
			For >2,000 To 5,000, Deduct	-64.67	
			For >5,000, Deduct	-107.29	
33 01 30 72-0122	LF		21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	592.57	
			For Vinlyester Resin, Add	392.20	
			For Epoxy Resin, Add	46.22	
			For Up To >10, Add	376.99	
			For >10 To 25, Add	220.77	
			For >25 To 50, Add	160.48	
			For >50 To 100, Add	80.24	
			For >500 To 1,000, Deduct	-30.44	
			For >1,000 To 2,000, Deduct	-46.06	
			For >2,000 To 5,000, Deduct	-75.30	
			For >5,000, Deduct	-124.97	
33 01 30 72-0123	LF		21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	678.84	
			For Vinlyester Resin, Add	450.53	
			For Epoxy Resin, Add	53.10	
			For Up To >10, Add	427.50	
			For >10 To 25, Add	248.98	
			For >25 To 50, Add	181.57	
			For >50 To 100, Add	90.78	
			For >500 To 1,000, Deduct	-34.82	
			For >1,000 To 2,000, Deduct	-52.67	
			For >2,000 To 5,000, Deduct	-86.04	
			For >5,000, Deduct	-142.81	
33 01 30 72-0124	LF		21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	764.97	
			For Vinlyester Resin, Add	508.85	
			For Epoxy Resin, Add	59.97	
			For Up To >10, Add	477.59	
			For >10 To 25, Add	276.83	
			For >25 To 50, Add	202.45	
			For >50 To 100, Add	101.22	
			For >500 To 1,000, Deduct	-39.20	
			For >1,000 To 2,000, Deduct	-59.27	
			For >2,000 To 5,000, Deduct	-96.74	
			For >5,000, Deduct	-160.60	
33 01 30 72-0125	LF		21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	852.63	
			For Vinlyester Resin, Add	567.18	
			For Epoxy Resin, Add	66.85	
			For Up To >10, Add	532.27	
			For >10 To 25, Add	308.51	
			For >25 To 50, Add	225.62	
			For >50 To 100, Add	112.81	
			For >500 To 1,000, Deduct	-43.69	
			For >1,000 To 2,000, Deduct	-66.07	
			For >2,000 To 5,000, Deduct	-107.83	
			For >5,000, Deduct	-179.00	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,027.98	
For Vinylester Resin, Add	683.83	
For Epoxy Resin, Add	80.59	
For Up To >10, Add	641.69	
For >10 To 25, Add	371.93	
For >25 To 50, Add	272.00	
For >50 To 100, Add	136.00	
For >500 To 1,000, Deduct	-52.68	
For >1,000 To 2,000, Deduct	-79.65	
For >2,000 To 5,000, Deduct	-130.00	
For >5,000, Deduct	-215.81	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,203.33	
For Vinylester Resin, Add	800.48	
For Epoxy Resin, Add	94.34	
For Up To >10, Add	751.14	
For >10 To 25, Add	435.36	
For >25 To 50, Add	318.39	
For >50 To 100, Add	159.20	
For >500 To 1,000, Deduct	-61.66	
For >1,000 To 2,000, Deduct	-93.24	
For >2,000 To 5,000, Deduct	-152.17	
For >5,000, Deduct	-252.62	
33 01 30 72-0128 LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,378.67	
For Vinylester Resin, Add	917.13	
For Epoxy Resin, Add	108.09	
For Up To >10, Add	860.56	
For >10 To 25, Add	498.77	
For >25 To 50, Add	364.77	
For >50 To 100, Add	182.39	
For >500 To 1,000, Deduct	-70.65	
For >1,000 To 2,000, Deduct	-106.82	
For >2,000 To 5,000, Deduct	-174.34	
For >5,000, Deduct	-289.43	
33 01 30 72-0129 LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,554.01	
For Vinylester Resin, Add	1,033.77	
For Epoxy Resin, Add	121.84	
For Up To >10, Add	969.98	
For >10 To 25, Add	562.18	
For >25 To 50, Add	411.15	
For >50 To 100, Add	205.57	
For >500 To 1,000, Deduct	-79.63	
For >1,000 To 2,000, Deduct	-120.41	
For >2,000 To 5,000, Deduct	-196.52	
For >5,000, Deduct	-326.24	
33 01 30 72-0130 LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,729.35	
For Vinylester Resin, Add	1,150.42	
For Epoxy Resin, Add	135.59	
For Up To >10, Add	1,079.40	
For >10 To 25, Add	625.59	
For >25 To 50, Add	457.53	
For >50 To 100, Add	228.76	
For >500 To 1,000, Deduct	-88.61	
For >1,000 To 2,000, Deduct	-134.00	
For >2,000 To 5,000, Deduct	-218.69	
For >5,000, Deduct	-363.05	
33 01 30 72-0131 LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,907.79	
For Vinylester Resin, Add	1,267.08	
For Epoxy Resin, Add	149.33	
For Up To >10, Add	1,198.10	
For >10 To 25, Add	696.73	
For >25 To 50, Add	508.54	
For >50 To 100, Add	254.27	
For >500 To 1,000, Deduct	-97.83	
For >1,000 To 2,000, Deduct	-147.97	
For >2,000 To 5,000, Deduct	-241.63	
For >5,000, Deduct	-401.09	
33 01 30 72-0132 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,083.42	
For Vinylester Resin, Add	1,383.73	
For Epoxy Resin, Add	163.08	
For Up To >10, Add	1,308.36	
For >10 To 25, Add	760.84	
For >25 To 50, Add	555.34	
For >50 To 100, Add	277.67	
For >500 To 1,000, Deduct	-106.84	
For >1,000 To 2,000, Deduct	-161.59	
For >2,000 To 5,000, Deduct	-263.88	
For >5,000, Deduct	-438.02	

33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0134	LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	539.87	
	For Vinlyester Resin, Add	356.50	
	For Epoxy Resin, Add	42.02	
	For Up To >10, Add	346.41	
	For >10 To 25, Add	203.80	
	For >25 To 50, Add	147.74	
	For >50 To 100, Add	73.87	
	For >500 To 1,000, Deduct	-27.76	
	For >1,000 To 2,000, Deduct	-42.02	
	For >2,000 To 5,000, Deduct	-68.76	
	For >5,000, Deduct	-114.09	
33 01 30 72-0135	LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	631.67	
	For Vinlyester Resin, Add	418.99	
	For Epoxy Resin, Add	49.38	
	For Up To >10, Add	398.64	
	For >10 To 25, Add	232.44	
	For >25 To 50, Add	169.39	
	For >50 To 100, Add	84.70	
	For >500 To 1,000, Deduct	-32.41	
	For >1,000 To 2,000, Deduct	-49.03	
	For >2,000 To 5,000, Deduct	-80.11	
	For >5,000, Deduct	-132.96	
33 01 30 72-0136	LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	724.32	
	For Vinlyester Resin, Add	481.48	
	For Epoxy Resin, Add	56.75	
	For Up To >10, Add	453.39	
	For >10 To 25, Add	263.18	
	For >25 To 50, Add	192.30	
	For >50 To 100, Add	96.15	
	For >500 To 1,000, Deduct	-37.13	
	For >1,000 To 2,000, Deduct	-56.15	
	For >2,000 To 5,000, Deduct	-91.66	
	For >5,000, Deduct	-152.16	
33 01 30 72-0137	LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	817.38	
	For Vinlyester Resin, Add	543.97	
	For Epoxy Resin, Add	64.11	
	For Up To >10, Add	509.39	
	For >10 To 25, Add	294.98	
	For >25 To 50, Add	215.84	
	For >50 To 100, Add	107.92	
	For >500 To 1,000, Deduct	-41.88	
	For >1,000 To 2,000, Deduct	-63.32	
	For >2,000 To 5,000, Deduct	-103.32	
	For >5,000, Deduct	-171.53	
33 01 30 72-0138	LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	911.28	
	For Vinlyester Resin, Add	606.46	
	For Epoxy Resin, Add	71.48	
	For Up To >10, Add	567.92	
	For >10 To 25, Add	328.87	
	For >25 To 50, Add	240.64	
	For >50 To 100, Add	120.32	
	For >500 To 1,000, Deduct	-46.69	
	For >1,000 To 2,000, Deduct	-70.59	
	For >2,000 To 5,000, Deduct	-115.19	
	For >5,000, Deduct	-191.24	
33 01 30 72-0139	LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,099.08	
	For Vinlyester Resin, Add	731.44	
	For Epoxy Resin, Add	86.21	
	For Up To >10, Add	684.97	
	For >10 To 25, Add	396.65	
	For >25 To 50, Add	290.24	
	For >50 To 100, Add	145.12	
	For >500 To 1,000, Deduct	-56.31	
	For >1,000 To 2,000, Deduct	-85.14	
	For >2,000 To 5,000, Deduct	-138.93	
	For >5,000, Deduct	-230.65	
33 01 30 72-0140	LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,286.89	
	For Vinlyester Resin, Add	856.42	
	For Epoxy Resin, Add	100.94	
	For Up To >10, Add	802.02	
	For >10 To 25, Add	464.44	
	For >25 To 50, Add	339.84	
	For >50 To 100, Add	169.92	
	For >500 To 1,000, Deduct	-65.93	
	For >1,000 To 2,000, Deduct	-99.69	
	For >2,000 To 5,000, Deduct	-162.67	
	For >5,000, Deduct	-270.06	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,474.70	
For Vinylster Resin, Add	981.41	
For Epoxy Resin, Add	115.67	
For Up To >10, Add	919.08	
For >10 To 25, Add	532.23	
For >25 To 50, Add	389.44	
For >50 To 100, Add	194.72	
For >500 To 1,000, Deduct	-75.55	
For >1,000 To 2,000, Deduct	-114.24	
For >2,000 To 5,000, Deduct	-186.41	
For >5,000, Deduct	-309.48	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,662.51	
For Vinylster Resin, Add	1,106.39	
For Epoxy Resin, Add	130.40	
For Up To >10, Add	1,036.16	
For >10 To 25, Add	600.04	
For >25 To 50, Add	439.05	
For >50 To 100, Add	219.53	
For >500 To 1,000, Deduct	-85.17	
For >1,000 To 2,000, Deduct	-128.79	
For >2,000 To 5,000, Deduct	-210.16	
For >5,000, Deduct	-348.89	
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,850.32	
For Vinylster Resin, Add	1,231.37	
For Epoxy Resin, Add	145.13	
For Up To >10, Add	1,153.21	
For >10 To 25, Add	667.83	
For >25 To 50, Add	488.65	
For >50 To 100, Add	244.33	
For >500 To 1,000, Deduct	-94.80	
For >1,000 To 2,000, Deduct	-143.34	
For >2,000 To 5,000, Deduct	-233.90	
For >5,000, Deduct	-388.31	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,041.36	
For Vinylster Resin, Add	1,356.36	
For Epoxy Resin, Add	159.86	
For Up To >10, Add	1,279.96	
For >10 To 25, Add	743.69	
For >25 To 50, Add	543.10	
For >50 To 100, Add	271.55	
For >500 To 1,000, Deduct	-104.66	
For >1,000 To 2,000, Deduct	-158.29	
For >2,000 To 5,000, Deduct	-258.45	
For >5,000, Deduct	-429.01	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,229.45	
For Vinylster Resin, Add	1,481.33	
For Epoxy Resin, Add	174.59	
For Up To >10, Add	1,397.88	
For >10 To 25, Add	812.20	
For >25 To 50, Add	593.13	
For >50 To 100, Add	296.56	
For >500 To 1,000, Deduct	-114.30	
For >1,000 To 2,000, Deduct	-172.87	
For >2,000 To 5,000, Deduct	-282.26	
For >5,000, Deduct	-468.54	
33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	572.65	
For Vinylster Resin, Add	378.95	
For Epoxy Resin, Add	44.66	
For Up To >10, Add	364.58	
For >10 To 25, Add	213.59	
For >25 To 50, Add	155.22	
For >50 To 100, Add	77.61	
For >500 To 1,000, Deduct	-29.42	
For >1,000 To 2,000, Deduct	-44.51	
For >2,000 To 5,000, Deduct	-72.79	
For >5,000, Deduct	-120.79	
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	670.40	
For Vinylster Resin, Add	445.61	
For Epoxy Resin, Add	52.52	
For Up To >10, Add	419.75	
For >10 To 25, Add	243.70	
For >25 To 50, Add	178.05	
For >50 To 100, Add	89.02	
For >500 To 1,000, Deduct	-34.37	
For >1,000 To 2,000, Deduct	-51.97	
For >2,000 To 5,000, Deduct	-84.84	
For >5,000, Deduct	-140.84	



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Operation and Maintenance of Utilities		33 01	
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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0149	LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	769.41	
	For Vinlyester Resin, Add	512.26	
	For Epoxy Resin, Add	60.37	
	For Up To >10, Add	478.73	
	For >10 To 25, Add	276.98	
	For >25 To 50, Add	202.78	
	For >50 To 100, Add	101.39	
	For >500 To 1,000, Deduct	-39.41	
	For >1,000 To 2,000, Deduct	-59.59	
	For >2,000 To 5,000, Deduct	-97.22	
	For >5,000, Deduct	-161.40	
33 01 30 72-0150	LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	869.54	
	For Vinlyester Resin, Add	578.91	
	For Epoxy Resin, Add	68.23	
	For Up To >10, Add	541.07	
	For >10 To 25, Add	313.06	
	For >25 To 50, Add	229.18	
	For >50 To 100, Add	114.59	
	For >500 To 1,000, Deduct	-44.54	
	For >1,000 To 2,000, Deduct	-67.34	
	For >2,000 To 5,000, Deduct	-109.87	
	For >5,000, Deduct	-182.41	
33 01 30 72-0151	LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	969.69	
	For Vinlyester Resin, Add	645.58	
	For Epoxy Resin, Add	76.09	
	For Up To >10, Add	603.45	
	For >10 To 25, Add	349.16	
	For >25 To 50, Add	255.61	
	For >50 To 100, Add	127.81	
	For >500 To 1,000, Deduct	-49.67	
	For >1,000 To 2,000, Deduct	-75.10	
	For >2,000 To 5,000, Deduct	-122.53	
	For >5,000, Deduct	-203.43	
33 01 30 72-0152	LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,169.97	
	For Vinlyester Resin, Add	778.90	
	For Epoxy Resin, Add	91.80	
	For Up To >10, Add	728.14	
	For >10 To 25, Add	421.33	
	For >25 To 50, Add	308.43	
	For >50 To 100, Add	154.22	
	For >500 To 1,000, Deduct	-59.93	
	For >1,000 To 2,000, Deduct	-90.61	
	For >2,000 To 5,000, Deduct	-147.84	
	For >5,000, Deduct	-245.45	
33 01 30 72-0153	LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,417.12	
	For Vinlyester Resin, Add	945.13	
	For Epoxy Resin, Add	111.39	
	For Up To >10, Add	875.91	
	For >10 To 25, Add	504.90	
	For >25 To 50, Add	370.45	
	For >50 To 100, Add	185.22	
	For >500 To 1,000, Deduct	-72.53	
	For >1,000 To 2,000, Deduct	-109.63	
	For >2,000 To 5,000, Deduct	-178.76	
	For >5,000, Deduct	-296.81	
33 01 30 72-0154	LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,570.37	
	For Vinlyester Resin, Add	1,045.52	
	For Epoxy Resin, Add	123.22	
	For Up To >10, Add	977.11	
	For >10 To 25, Add	565.33	
	For >25 To 50, Add	413.88	
	For >50 To 100, Add	206.94	
	For >500 To 1,000, Deduct	-80.44	
	For >1,000 To 2,000, Deduct	-121.62	
	For >2,000 To 5,000, Deduct	-198.42	
	For >5,000, Deduct	-329.43	
33 01 30 72-0155	LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,770.64	
	For Vinlyester Resin, Add	1,178.84	
	For Epoxy Resin, Add	138.93	
	For Up To >10, Add	1,101.80	
	For >10 To 25, Add	637.49	
	For >25 To 50, Add	466.70	
	For >50 To 100, Add	233.35	
	For >500 To 1,000, Deduct	-90.70	
	For >1,000 To 2,000, Deduct	-137.13	
	For >2,000 To 5,000, Deduct	-223.73	
	For >5,000, Deduct	-371.45	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,970.91	
For Vinylster Resin, Add	1,312.14	
For Epoxy Resin, Add	154.65	
For Up To >10, Add	1,226.51	
For >10 To 25, Add	709.67	
For >25 To 50, Add	519.53	
For >50 To 100, Add	259.76	
For >500 To 1,000, Deduct	-100.96	
For >1,000 To 2,000, Deduct	-152.64	
For >2,000 To 5,000, Deduct	-249.04	
For >5,000, Deduct	-413.47	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,174.56	
For Vinylster Resin, Add	1,445.47	
For Epoxy Resin, Add	170.36	
For Up To >10, Add	1,361.31	
For >10 To 25, Add	790.26	
For >25 To 50, Add	577.41	
For >50 To 100, Add	288.70	
For >500 To 1,000, Deduct	-111.47	
For >1,000 To 2,000, Deduct	-168.57	
For >2,000 To 5,000, Deduct	-275.20	
For >5,000, Deduct	-456.83	
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,375.11	
For Vinylster Resin, Add	1,578.78	
For Epoxy Resin, Add	186.07	
For Up To >10, Add	1,486.83	
For >10 To 25, Add	863.13	
For >25 To 50, Add	630.65	
For >50 To 100, Add	315.32	
For >500 To 1,000, Deduct	-121.75	
For >1,000 To 2,000, Deduct	-184.12	
For >2,000 To 5,000, Deduct	-300.58	
For >5,000, Deduct	-498.96	
33 01 30 72-0159 LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,575.67	
For Vinylster Resin, Add	1,712.10	
For Epoxy Resin, Add	201.78	
For Up To >10, Add	1,612.39	
For >10 To 25, Add	936.01	
For >25 To 50, Add	683.90	
For >50 To 100, Add	341.95	
For >500 To 1,000, Deduct	-132.03	
For >1,000 To 2,000, Deduct	-199.67	
For >2,000 To 5,000, Deduct	-325.96	
For >5,000, Deduct	-541.10	
33 01 30 72-0160 LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,776.23	
For Vinylster Resin, Add	1,845.41	
For Epoxy Resin, Add	217.49	
For Up To >10, Add	1,737.94	
For >10 To 25, Add	1,008.90	
For >25 To 50, Add	737.16	
For >50 To 100, Add	368.58	
For >500 To 1,000, Deduct	-142.31	
For >1,000 To 2,000, Deduct	-215.21	
For >2,000 To 5,000, Deduct	-351.34	
For >5,000, Deduct	-583.23	
33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	709.32	
For Vinylster Resin, Add	472.06	
For Epoxy Resin, Add	55.64	
For Up To >10, Add	442.04	
For >10 To 25, Add	255.97	
For >25 To 50, Add	187.30	
For >50 To 100, Add	93.65	
For >500 To 1,000, Deduct	-36.34	
For >1,000 To 2,000, Deduct	-54.95	
For >2,000 To 5,000, Deduct	-89.66	
For >5,000, Deduct	-148.85	
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	815.13	
For Vinylster Resin, Add	542.89	
For Epoxy Resin, Add	63.98	
For Up To >10, Add	506.52	
For >10 To 25, Add	292.84	
For >25 To 50, Add	214.48	
For >50 To 100, Add	107.24	
For >500 To 1,000, Deduct	-41.75	
For >1,000 To 2,000, Deduct	-63.11	
For >2,000 To 5,000, Deduct	-102.96	
For >5,000, Deduct	-170.94	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0164	LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	921.50	
	For Vinlyester Resin, Add	613.71	
	For Epoxy Resin, Add	72.33	
	For Up To >10, Add	572.68	
	For >10 To 25, Add	331.11	
	For >25 To 50, Add	242.50	
	For >50 To 100, Add	121.25	
	For >500 To 1,000, Deduct	-47.19	
	For >1,000 To 2,000, Deduct	-71.35	
	For >2,000 To 5,000, Deduct	-116.40	
	For >5,000, Deduct	-193.25	
33 01 30 72-0165	LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,027.72	
	For Vinlyester Resin, Add	684.53	
	For Epoxy Resin, Add	80.68	
	For Up To >10, Add	638.41	
	For >10 To 25, Add	369.03	
	For >25 To 50, Add	270.31	
	For >50 To 100, Add	135.16	
	For >500 To 1,000, Deduct	-52.63	
	For >1,000 To 2,000, Deduct	-79.57	
	For >2,000 To 5,000, Deduct	-129.80	
	For >5,000, Deduct	-215.51	
33 01 30 72-0166	LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,240.45	
	For Vinlyester Resin, Add	826.18	
	For Epoxy Resin, Add	97.37	
	For Up To >10, Add	770.73	
	For >10 To 25, Add	445.56	
	For >25 To 50, Add	326.35	
	For >50 To 100, Add	163.18	
	For >500 To 1,000, Deduct	-63.53	
	For >1,000 To 2,000, Deduct	-96.04	
	For >2,000 To 5,000, Deduct	-156.68	
	For >5,000, Deduct	-260.13	
33 01 30 72-0167	LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,453.06	
	For Vinlyester Resin, Add	967.83	
	For Epoxy Resin, Add	114.07	
	For Up To >10, Add	902.66	
	For >10 To 25, Add	521.78	
	For >25 To 50, Add	382.20	
	For >50 To 100, Add	191.10	
	For >500 To 1,000, Deduct	-74.41	
	For >1,000 To 2,000, Deduct	-112.50	
	For >2,000 To 5,000, Deduct	-183.53	
	For >5,000, Deduct	-304.70	
33 01 30 72-0168	LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,665.80	
	For Vinlyester Resin, Add	1,109.47	
	For Epoxy Resin, Add	130.76	
	For Up To >10, Add	1,035.00	
	For >10 To 25, Add	598.34	
	For >25 To 50, Add	438.25	
	For >50 To 100, Add	219.13	
	For >500 To 1,000, Deduct	-85.31	
	For >1,000 To 2,000, Deduct	-128.98	
	For >2,000 To 5,000, Deduct	-210.41	
	For >5,000, Deduct	-349.33	
33 01 30 72-0169	LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,878.39	
	For Vinlyester Resin, Add	1,251.12	
	For Epoxy Resin, Add	147.45	
	For Up To >10, Add	1,166.90	
	For >10 To 25, Add	674.53	
	For >25 To 50, Add	494.08	
	For >50 To 100, Add	247.04	
	For >500 To 1,000, Deduct	-96.20	
	For >1,000 To 2,000, Deduct	-145.43	
	For >2,000 To 5,000, Deduct	-237.25	
	For >5,000, Deduct	-393.89	
33 01 30 72-0170	LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,091.14	
	For Vinlyester Resin, Add	1,392.77	
	For Epoxy Resin, Add	164.15	
	For Up To >10, Add	1,299.25	
	For >10 To 25, Add	751.09	
	For >25 To 50, Add	550.14	
	For >50 To 100, Add	275.07	
	For >500 To 1,000, Deduct	-107.09	
	For >1,000 To 2,000, Deduct	-161.91	
	For >2,000 To 5,000, Deduct	-264.13	
	For >5,000, Deduct	-438.52	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,308.36	
For Vinylster Resin, Add	1,534.41	
For Epoxy Resin, Add	180.84	
For Up To >10, Add	1,445.03	
For >10 To 25, Add	838.86	
For >25 To 50, Add	612.91	
For >50 To 100, Add	306.46	
For >500 To 1,000, Deduct	-118.33	
For >1,000 To 2,000, Deduct	-178.94	
For >2,000 To 5,000, Deduct	-292.13	
For >5,000, Deduct	-484.94	
33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,521.53	
For Vinylster Resin, Add	1,676.06	
For Epoxy Resin, Add	197.54	
For Up To >10, Add	1,578.67	
For >10 To 25, Add	916.49	
For >25 To 50, Add	669.61	
For >50 To 100, Add	334.81	
For >500 To 1,000, Deduct	-129.26	
For >1,000 To 2,000, Deduct	-195.47	
For >2,000 To 5,000, Deduct	-319.11	
For >5,000, Deduct	-529.74	
33 01 30 72-0173 LF 25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,734.54	
For Vinylster Resin, Add	1,817.70	
For Epoxy Resin, Add	214.23	
For Up To >10, Add	1,711.82	
For >10 To 25, Add	993.73	
For >25 To 50, Add	726.07	
For >50 To 100, Add	363.04	
For >500 To 1,000, Deduct	-140.17	
For >1,000 To 2,000, Deduct	-211.98	
For >2,000 To 5,000, Deduct	-346.06	
For >5,000, Deduct	-574.47	
33 01 30 72-0174 LF 25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,947.70	
For Vinylster Resin, Add	1,959.35	
For Epoxy Resin, Add	230.92	
For Up To >10, Add	1,845.43	
For >10 To 25, Add	1,071.34	
For >25 To 50, Add	782.76	
For >50 To 100, Add	391.38	
For >500 To 1,000, Deduct	-151.10	
For >1,000 To 2,000, Deduct	-228.51	
For >2,000 To 5,000, Deduct	-373.05	
For >5,000, Deduct	-619.27	
33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	747.85	
33 01 30 72-0176 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	747.85	
For Vinylster Resin, Add	498.35	
For Epoxy Resin, Add	58.73	
For Up To >10, Add	463.73	
For >10 To 25, Add	267.78	
For >25 To 50, Add	196.27	
For >50 To 100, Add	98.13	
For >500 To 1,000, Deduct	-38.29	
For >1,000 To 2,000, Deduct	-57.88	
For >2,000 To 5,000, Deduct	-94.41	
For >5,000, Deduct	-156.75	
33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	860.47	
For Vinylster Resin, Add	573.34	
For Epoxy Resin, Add	67.57	
For Up To >10, Add	533.76	
For >10 To 25, Add	308.29	
For >25 To 50, Add	225.93	
For >50 To 100, Add	112.96	
For >500 To 1,000, Deduct	-44.06	
For >1,000 To 2,000, Deduct	-66.61	
For >2,000 To 5,000, Deduct	-108.64	
For >5,000, Deduct	-180.38	
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	973.07	
For Vinylster Resin, Add	648.33	
For Epoxy Resin, Add	76.41	
For Up To >10, Add	603.74	
For >10 To 25, Add	348.75	
For >25 To 50, Add	255.56	
For >50 To 100, Add	127.78	
For >500 To 1,000, Deduct	-49.83	
For >1,000 To 2,000, Deduct	-75.32	
For >2,000 To 5,000, Deduct	-122.86	
For >5,000, Deduct	-203.99	



Utilities		33	CS
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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0179	LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,085.53	
	For Vinlyester Resin, Add	723.32	
	For Epoxy Resin, Add	85.25	
	For Up To >10, Add	673.29	
	For >10 To 25, Add	388.86	
	For >25 To 50, Add	284.98	
	For >50 To 100, Add	142.49	
	For >500 To 1,000, Deduct	-55.58	
	For >1,000 To 2,000, Deduct	-84.03	
	For >2,000 To 5,000, Deduct	-137.05	
	For >5,000, Deduct	-227.55	
33 01 30 72-0180	LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,310.59	
	For Vinlyester Resin, Add	873.30	
	For Epoxy Resin, Add	102.92	
	For Up To >10, Add	812.85	
	For >10 To 25, Add	469.44	
	For >25 To 50, Add	344.04	
	For >50 To 100, Add	172.02	
	For >500 To 1,000, Deduct	-67.11	
	For >1,000 To 2,000, Deduct	-101.45	
	For >2,000 To 5,000, Deduct	-165.46	
	For >5,000, Deduct	-274.72	
33 01 30 72-0181	LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,535.78	
	For Vinlyester Resin, Add	1,023.27	
	For Epoxy Resin, Add	120.60	
	For Up To >10, Add	952.79	
	For >10 To 25, Add	550.36	
	For >25 To 50, Add	403.30	
	For >50 To 100, Add	201.65	
	For >500 To 1,000, Deduct	-78.64	
	For >1,000 To 2,000, Deduct	-118.88	
	For >2,000 To 5,000, Deduct	-193.91	
	For >5,000, Deduct	-321.95	
33 01 30 72-0182	LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,760.85	
	For Vinlyester Resin, Add	1,173.26	
	For Epoxy Resin, Add	138.28	
	For Up To >10, Add	1,092.33	
	For >10 To 25, Add	630.92	
	For >25 To 50, Add	462.36	
	For >50 To 100, Add	231.18	
	For >500 To 1,000, Deduct	-90.16	
	For >1,000 To 2,000, Deduct	-136.30	
	For >2,000 To 5,000, Deduct	-222.32	
	For >5,000, Deduct	-369.12	
33 01 30 72-0183	LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,985.92	
	For Vinlyester Resin, Add	1,323.24	
	For Epoxy Resin, Add	155.95	
	For Up To >10, Add	1,231.91	
	For >10 To 25, Add	711.54	
	For >25 To 50, Add	521.44	
	For >50 To 100, Add	260.72	
	For >500 To 1,000, Deduct	-101.69	
	For >1,000 To 2,000, Deduct	-153.72	
	For >2,000 To 5,000, Deduct	-250.74	
	For >5,000, Deduct	-416.30	
33 01 30 72-0184	LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,210.97	
	For Vinlyester Resin, Add	1,473.21	
	For Epoxy Resin, Add	173.63	
	For Up To >10, Add	1,371.44	
	For >10 To 25, Add	792.10	
	For >25 To 50, Add	580.49	
	For >50 To 100, Add	290.24	
	For >500 To 1,000, Deduct	-113.21	
	For >1,000 To 2,000, Deduct	-171.14	
	For >2,000 To 5,000, Deduct	-279.15	
	For >5,000, Deduct	-463.47	
33 01 30 72-0185	LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,441.93	
	For Vinlyester Resin, Add	1,623.20	
	For Epoxy Resin, Add	191.31	
	For Up To >10, Add	1,528.67	
	For >10 To 25, Add	887.41	
	For >25 To 50, Add	648.39	
	For >50 To 100, Add	324.20	
	For >500 To 1,000, Deduct	-125.17	
	For >1,000 To 2,000, Deduct	-189.30	
	For >2,000 To 5,000, Deduct	-309.03	
	For >5,000, Deduct	-513.00	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0186	LF		27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,667.55	
			For Vinylster Resin, Add	1,773.17	
			For Epoxy Resin, Add	208.98	
			For Up To >10, Add	1,669.90	
			For >10 To 25, Add	969.40	
			For >25 To 50, Add	708.30	
			For >50 To 100, Add	354.15	
			For >500 To 1,000, Deduct	-136.74	
			For >1,000 To 2,000, Deduct	-206.79	
			For >2,000 To 5,000, Deduct	-337.58	
			For >5,000, Deduct	-560.40	
33 01 30 72-0187	LF		27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,893.18	
			For Vinylster Resin, Add	1,923.15	
			For Epoxy Resin, Add	226.66	
			For Up To >10, Add	1,811.14	
			For >10 To 25, Add	1,051.39	
			For >25 To 50, Add	768.20	
			For >50 To 100, Add	384.10	
			For >500 To 1,000, Deduct	-148.30	
			For >1,000 To 2,000, Deduct	-224.28	
			For >2,000 To 5,000, Deduct	-366.14	
			For >5,000, Deduct	-607.80	
33 01 30 72-0188	LF		27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,118.80	
			For Vinylster Resin, Add	2,073.13	
			For Epoxy Resin, Add	244.33	
			For Up To >10, Add	1,952.38	
			For >10 To 25, Add	1,133.38	
			For >25 To 50, Add	828.11	
			For >50 To 100, Add	414.05	
			For >500 To 1,000, Deduct	-159.87	
			For >1,000 To 2,000, Deduct	-241.77	
			For >2,000 To 5,000, Deduct	-394.69	
			For >5,000, Deduct	-655.20	
33 01 30 72-0189			28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0190	LF		28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	905.28	
			For Vinylster Resin, Add	603.64	
			For Epoxy Resin, Add	71.14	
			For Up To >10, Add	559.99	
			For >10 To 25, Add	322.94	
			For >25 To 50, Add	236.88	
			For >50 To 100, Add	118.44	
			For >500 To 1,000, Deduct	-46.34	
			For >1,000 To 2,000, Deduct	-70.04	
			For >2,000 To 5,000, Deduct	-114.22	
			For >5,000, Deduct	-189.64	
33 01 30 72-0191	LF		28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,024.12	
			For Vinylster Resin, Add	682.79	
			For Epoxy Resin, Add	80.47	
			For Up To >10, Add	633.81	
			For >10 To 25, Add	365.61	
			For >25 To 50, Add	268.13	
			For >50 To 100, Add	134.07	
			For >500 To 1,000, Deduct	-52.42	
			For >1,000 To 2,000, Deduct	-79.24	
			For >2,000 To 5,000, Deduct	-129.23	
			For >5,000, Deduct	-214.56	
33 01 30 72-0192	LF		28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,142.81	
			For Vinylster Resin, Add	761.95	
			For Epoxy Resin, Add	89.80	
			For Up To >10, Add	707.18	
			For >10 To 25, Add	407.90	
			For >25 To 50, Add	299.17	
			For >50 To 100, Add	149.58	
			For >500 To 1,000, Deduct	-58.50	
			For >1,000 To 2,000, Deduct	-88.43	
			For >2,000 To 5,000, Deduct	-144.20	
			For >5,000, Deduct	-239.42	
33 01 30 72-0193	LF		28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,447.04	
			For Vinylster Resin, Add	967.05	
			For Epoxy Resin, Add	113.97	
			For Up To >10, Add	887.37	
			For >10 To 25, Add	509.23	
			For >25 To 50, Add	374.61	
			For >50 To 100, Add	187.31	
			For >500 To 1,000, Deduct	-73.99	
			For >1,000 To 2,000, Deduct	-111.81	
			For >2,000 To 5,000, Deduct	-182.17	
			For >5,000, Deduct	-302.52	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0194	LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,617.72	
	For Vinlyester Resin, Add	1,078.57	
	For Epoxy Resin, Add	127.12	
	For Up To >10, Add	1,001.14	
	For >10 To 25, Add	577.48	
	For >25 To 50, Add	423.53	
	For >50 To 100, Add	211.76	
	For >500 To 1,000, Deduct	-82.81	
	For >1,000 To 2,000, Deduct	-125.17	
	For >2,000 To 5,000, Deduct	-204.12	
	For >5,000, Deduct	-338.93	
33 01 30 72-0195	LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,855.11	
	For Vinlyester Resin, Add	1,236.89	
	For Epoxy Resin, Add	145.78	
	For Up To >10, Add	1,147.88	
	For >10 To 25, Add	662.07	
	For >25 To 50, Add	485.59	
	For >50 To 100, Add	242.80	
	For >500 To 1,000, Deduct	-94.96	
	For >1,000 To 2,000, Deduct	-143.54	
	For >2,000 To 5,000, Deduct	-234.07	
	For >5,000, Deduct	-388.65	
33 01 30 72-0196	LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,092.50	
	For Vinlyester Resin, Add	1,395.19	
	For Epoxy Resin, Add	164.43	
	For Up To >10, Add	1,294.68	
	For >10 To 25, Add	746.71	
	For >25 To 50, Add	547.68	
	For >50 To 100, Add	273.84	
	For >500 To 1,000, Deduct	-107.11	
	For >1,000 To 2,000, Deduct	-161.91	
	For >2,000 To 5,000, Deduct	-264.02	
	For >5,000, Deduct	-438.37	
33 01 30 72-0197	LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,329.88	
	For Vinlyester Resin, Add	1,553.50	
	For Epoxy Resin, Add	183.09	
	For Up To >10, Add	1,441.42	
	For >10 To 25, Add	831.30	
	For >25 To 50, Add	609.74	
	For >50 To 100, Add	304.87	
	For >500 To 1,000, Deduct	-119.26	
	For >1,000 To 2,000, Deduct	-180.27	
	For >2,000 To 5,000, Deduct	-293.96	
	For >5,000, Deduct	-488.09	
33 01 30 72-0198	LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,573.44	
	For Vinlyester Resin, Add	1,711.82	
	For Epoxy Resin, Add	201.75	
	For Up To >10, Add	1,606.70	
	For >10 To 25, Add	931.34	
	For >25 To 50, Add	681.08	
	For >50 To 100, Add	340.54	
	For >500 To 1,000, Deduct	-131.87	
	For >1,000 To 2,000, Deduct	-199.41	
	For >2,000 To 5,000, Deduct	-325.45	
	For >5,000, Deduct	-540.29	
33 01 30 72-0199	LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,811.40	
	For Vinlyester Resin, Add	1,870.13	
	For Epoxy Resin, Add	220.41	
	For Up To >10, Add	1,755.18	
	For >10 To 25, Add	1,017.38	
	For >25 To 50, Add	744.01	
	For >50 To 100, Add	372.00	
	For >500 To 1,000, Deduct	-144.06	
	For >1,000 To 2,000, Deduct	-217.84	
	For >2,000 To 5,000, Deduct	-355.54	
	For >5,000, Deduct	-590.24	
33 01 30 72-0200	LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,049.48	
	For Vinlyester Resin, Add	2,028.43	
	For Epoxy Resin, Add	239.07	
	For Up To >10, Add	1,904.04	
	For >10 To 25, Add	1,103.74	
	For >25 To 50, Add	807.13	
	For >50 To 100, Add	403.57	
	For >500 To 1,000, Deduct	-156.27	
	For >1,000 To 2,000, Deduct	-236.30	
	For >2,000 To 5,000, Deduct	-385.66	
	For >5,000, Deduct	-640.24	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,287.42	
For Vinylster Resin, Add	2,186.74	
For Epoxy Resin, Add	257.72	
For Up To >10, Add	2,052.46	
For >10 To 25, Add	1,189.73	
For >25 To 50, Add	870.03	
For >50 To 100, Add	435.02	
For >500 To 1,000, Deduct	-168.46	
For >1,000 To 2,000, Deduct	-254.73	
For >2,000 To 5,000, Deduct	-415.75	
For >5,000, Deduct	-690.18	
33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	949.88	
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	949.88	
For Vinylster Resin, Add	633.77	
For Epoxy Resin, Add	74.69	
For Up To >10, Add	586.17	
For >10 To 25, Add	337.57	
For >25 To 50, Add	247.81	
For >50 To 100, Add	123.91	
For >500 To 1,000, Deduct	-48.61	
For >1,000 To 2,000, Deduct	-73.47	
For >2,000 To 5,000, Deduct	-119.77	
For >5,000, Deduct	-198.87	
33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,074.81	
For Vinylster Resin, Add	717.09	
For Epoxy Resin, Add	84.51	
For Up To >10, Add	663.38	
For >10 To 25, Add	382.08	
For >25 To 50, Add	280.47	
For >50 To 100, Add	140.23	
For >500 To 1,000, Deduct	-55.00	
For >1,000 To 2,000, Deduct	-83.13	
For >2,000 To 5,000, Deduct	-135.53	
For >5,000, Deduct	-225.04	
33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,199.72	
For Vinylster Resin, Add	800.41	
For Epoxy Resin, Add	94.33	
For Up To >10, Add	740.56	
For >10 To 25, Add	426.56	
For >25 To 50, Add	313.11	
For >50 To 100, Add	156.55	
For >500 To 1,000, Deduct	-61.39	
For >1,000 To 2,000, Deduct	-92.79	
For >2,000 To 5,000, Deduct	-151.28	
For >5,000, Deduct	-251.20	
33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,449.43	
For Vinylster Resin, Add	967.05	
For Epoxy Resin, Add	113.97	
For Up To >10, Add	894.54	
For >10 To 25, Add	515.20	
For >25 To 50, Add	378.20	
For >50 To 100, Add	189.10	
For >500 To 1,000, Deduct	-74.17	
For >1,000 To 2,000, Deduct	-112.10	
For >2,000 To 5,000, Deduct	-182.76	
For >5,000, Deduct	-303.47	
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,699.27	
For Vinylster Resin, Add	1,133.69	
For Epoxy Resin, Add	133.61	
For Up To >10, Add	1,048.91	
For >10 To 25, Add	604.17	
For >25 To 50, Add	443.48	
For >50 To 100, Add	221.74	
For >500 To 1,000, Deduct	-86.96	
For >1,000 To 2,000, Deduct	-131.43	
For >2,000 To 5,000, Deduct	-214.27	
For >5,000, Deduct	-355.80	
33 01 30 72-0208 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,948.99	
For Vinylster Resin, Add	1,300.34	
For Epoxy Resin, Add	153.25	
For Up To >10, Add	1,202.90	
For >10 To 25, Add	692.81	
For >25 To 50, Add	508.57	
For >50 To 100, Add	254.28	
For >500 To 1,000, Deduct	-99.73	
For >1,000 To 2,000, Deduct	-150.74	
For >2,000 To 5,000, Deduct	-245.76	
For >5,000, Deduct	-408.07	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0209	LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,198.84	
	For Vinlyester Resin, Add	1,466.98	
	For Epoxy Resin, Add	172.89	
	For Up To >10, Add	1,357.30	
	For >10 To 25, Add	781.80	
	For >25 To 50, Add	573.86	
	For >50 To 100, Add	286.93	
	For >500 To 1,000, Deduct	-112.52	
	For >1,000 To 2,000, Deduct	-170.07	
	For >2,000 To 5,000, Deduct	-277.27	
	For >5,000, Deduct	-460.40	
33 01 30 72-0210	LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,448.55	
	For Vinlyester Resin, Add	1,633.63	
	For Epoxy Resin, Add	192.53	
	For Up To >10, Add	1,511.28	
	For >10 To 25, Add	870.44	
	For >25 To 50, Add	638.95	
	For >50 To 100, Add	319.48	
	For >500 To 1,000, Deduct	-125.30	
	For >1,000 To 2,000, Deduct	-189.38	
	For >2,000 To 5,000, Deduct	-308.75	
	For >5,000, Deduct	-512.67	
33 01 30 72-0211	LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,704.72	
	For Vinlyester Resin, Add	1,800.27	
	For Epoxy Resin, Add	212.17	
	For Up To >10, Add	1,684.64	
	For >10 To 25, Add	975.23	
	For >25 To 50, Add	713.73	
	For >50 To 100, Add	356.86	
	For >500 To 1,000, Deduct	-138.56	
	For >1,000 To 2,000, Deduct	-209.50	
	For >2,000 To 5,000, Deduct	-341.84	
	For >5,000, Deduct	-567.53	
33 01 30 72-0212	LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,955.00	
	For Vinlyester Resin, Add	1,966.92	
	For Epoxy Resin, Add	231.82	
	For Up To >10, Add	1,840.30	
	For >10 To 25, Add	1,065.27	
	For >25 To 50, Add	779.66	
	For >50 To 100, Add	389.83	
	For >500 To 1,000, Deduct	-151.38	
	For >1,000 To 2,000, Deduct	-228.88	
	For >2,000 To 5,000, Deduct	-373.47	
	For >5,000, Deduct	-620.02	
33 01 30 72-0213	LF 30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,205.40	
	For Vinlyester Resin, Add	2,133.55	
	For Epoxy Resin, Add	251.45	
	For Up To >10, Add	1,996.38	
	For >10 To 25, Add	1,155.66	
	For >25 To 50, Add	845.79	
	For >50 To 100, Add	422.90	
	For >500 To 1,000, Deduct	-164.21	
	For >1,000 To 2,000, Deduct	-248.28	
	For >2,000 To 5,000, Deduct	-405.12	
	For >5,000, Deduct	-672.57	
33 01 30 72-0214	LF 30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,455.82	
	For Vinlyester Resin, Add	2,300.20	
	For Epoxy Resin, Add	271.10	
	For Up To >10, Add	2,152.46	
	For >10 To 25, Add	1,246.05	
	For >25 To 50, Add	911.93	
	For >50 To 100, Add	455.97	
	For >500 To 1,000, Deduct	-177.04	
	For >1,000 To 2,000, Deduct	-267.68	
	For >2,000 To 5,000, Deduct	-436.78	
	For >5,000, Deduct	-725.13	
33 01 30 72-0215	LF 30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,706.09	
	For Vinlyester Resin, Add	2,466.84	
	For Epoxy Resin, Add	290.73	
	For Up To >10, Add	2,308.12	
	For >10 To 25, Add	1,336.09	
	For >25 To 50, Add	977.86	
	For >50 To 100, Add	488.93	
	For >500 To 1,000, Deduct	-189.86	
	For >1,000 To 2,000, Deduct	-287.06	
	For >2,000 To 5,000, Deduct	-468.39	
	For >5,000, Deduct	-777.62	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,956.50	
For Vinylester Resin, Add	2,633.48	
For Epoxy Resin, Add	310.37	
For Up To >10, Add	2,464.20	
For >10 To 25, Add	1,426.48	
For >25 To 50, Add	1,043.99	
For >50 To 100, Add	522.00	
For >500 To 1,000, Deduct	-202.68	
For >1,000 To 2,000, Deduct	-306.46	
For >2,000 To 5,000, Deduct	-500.05	
For >5,000, Deduct	-830.18	
33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	994.22	
For Vinylester Resin, Add	663.73	
For Epoxy Resin, Add	78.23	
For Up To >10, Add	612.19	
For >10 To 25, Add	352.12	
For >25 To 50, Add	258.68	
For >50 To 100, Add	129.34	
For >500 To 1,000, Deduct	-50.86	
For >1,000 To 2,000, Deduct	-76.87	
For >2,000 To 5,000, Deduct	-125.29	
For >5,000, Deduct	-208.05	
33 01 30 72-0219 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,125.25	
For Vinylester Resin, Add	751.23	
For Epoxy Resin, Add	88.54	
For Up To >10, Add	692.80	
For >10 To 25, Add	398.47	
For >25 To 50, Add	292.74	
For >50 To 100, Add	146.37	
For >500 To 1,000, Deduct	-57.56	
For >1,000 To 2,000, Deduct	-87.00	
For >2,000 To 5,000, Deduct	-141.80	
For >5,000, Deduct	-235.46	
33 01 30 72-0220 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,256.25	
For Vinylester Resin, Add	838.71	
For Epoxy Resin, Add	98.85	
For Up To >10, Add	773.38	
For >10 To 25, Add	444.79	
For >25 To 50, Add	326.78	
For >50 To 100, Add	163.39	
For >500 To 1,000, Deduct	-64.27	
For >1,000 To 2,000, Deduct	-97.12	
For >2,000 To 5,000, Deduct	-158.30	
For >5,000, Deduct	-262.87	
33 01 30 72-0221 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,518.43	
For Vinylester Resin, Add	1,013.68	
For Epoxy Resin, Add	119.47	
For Up To >10, Add	934.99	
For >10 To 25, Add	537.81	
For >25 To 50, Add	395.09	
For >50 To 100, Add	197.54	
For >500 To 1,000, Deduct	-77.68	
For >1,000 To 2,000, Deduct	-117.40	
For >2,000 To 5,000, Deduct	-191.35	
For >5,000, Deduct	-317.75	
33 01 30 72-0222 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,780.47	
For Vinylester Resin, Add	1,188.66	
For Epoxy Resin, Add	140.09	
For Up To >10, Add	1,096.19	
For >10 To 25, Add	630.47	
For >25 To 50, Add	463.19	
For >50 To 100, Add	231.59	
For >500 To 1,000, Deduct	-91.08	
For >1,000 To 2,000, Deduct	-137.65	
For >2,000 To 5,000, Deduct	-224.37	
For >5,000, Deduct	-372.57	
33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,042.64	
For Vinylester Resin, Add	1,363.64	
For Epoxy Resin, Add	160.71	
For Up To >10, Add	1,257.80	
For >10 To 25, Add	723.49	
For >25 To 50, Add	531.50	
For >50 To 100, Add	265.75	
For >500 To 1,000, Deduct	-104.50	
For >1,000 To 2,000, Deduct	-157.93	
For >2,000 To 5,000, Deduct	-257.41	
For >5,000, Deduct	-427.45	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0224	LF		31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,304.67	
			For Vinlyester Resin, Add	1,538.61	
			For Epoxy Resin, Add	181.34	
			For Up To >10, Add	1,418.99	
			For >10 To 25, Add	816.15	
			For >25 To 50, Add	599.59	
			For >50 To 100, Add	299.80	
			For >500 To 1,000, Deduct	-117.90	
			For >1,000 To 2,000, Deduct	-178.18	
			For >2,000 To 5,000, Deduct	-290.43	
			For >5,000, Deduct	-482.27	
33 01 30 72-0225	LF		31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,566.71	
			For Vinlyester Resin, Add	1,713.59	
			For Epoxy Resin, Add	201.96	
			For Up To >10, Add	1,580.18	
			For >10 To 25, Add	908.82	
			For >25 To 50, Add	667.69	
			For >50 To 100, Add	333.85	
			For >500 To 1,000, Deduct	-131.30	
			For >1,000 To 2,000, Deduct	-198.44	
			For >2,000 To 5,000, Deduct	-323.44	
			For >5,000, Deduct	-537.09	
33 01 30 72-0226	LF		31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,835.48	
			For Vinlyester Resin, Add	1,888.57	
			For Epoxy Resin, Add	222.58	
			For Up To >10, Add	1,761.57	
			For >10 To 25, Add	1,018.31	
			For >25 To 50, Add	745.89	
			For >50 To 100, Add	372.94	
			For >500 To 1,000, Deduct	-145.21	
			For >1,000 To 2,000, Deduct	-219.54	
			For >2,000 To 5,000, Deduct	-358.14	
			For >5,000, Deduct	-594.60	
33 01 30 72-0227	LF		31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,118.49	
			For Vinlyester Resin, Add	2,077.63	
			For Epoxy Resin, Add	244.86	
			For Up To >10, Add	1,935.37	
			For >10 To 25, Add	1,118.14	
			For >25 To 50, Add	819.28	
			For >50 To 100, Add	409.64	
			For >500 To 1,000, Deduct	-159.69	
			For >1,000 To 2,000, Deduct	-241.41	
			For >2,000 To 5,000, Deduct	-393.78	
			For >5,000, Deduct	-653.79	
33 01 30 72-0228	LF		31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,360.81	
			For Vinlyester Resin, Add	2,238.51	
			For Epoxy Resin, Add	263.82	
			For Up To >10, Add	2,087.76	
			For >10 To 25, Add	1,206.82	
			For >25 To 50, Add	883.98	
			For >50 To 100, Add	441.99	
			For >500 To 1,000, Deduct	-172.11	
			For >1,000 To 2,000, Deduct	-260.21	
			For >2,000 To 5,000, Deduct	-424.48	
			For >5,000, Deduct	-704.75	
33 01 30 72-0229	LF		31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,623.55	
			For Vinlyester Resin, Add	2,413.49	
			For Epoxy Resin, Add	284.45	
			For Up To >10, Add	2,251.05	
			For >10 To 25, Add	1,301.24	
			For >25 To 50, Add	953.13	
			For >50 To 100, Add	476.57	
			For >500 To 1,000, Deduct	-185.57	
			For >1,000 To 2,000, Deduct	-280.55	
			For >2,000 To 5,000, Deduct	-457.67	
			For >5,000, Deduct	-759.85	
33 01 30 72-0230	LF		31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,886.14	
			For Vinlyester Resin, Add	2,588.46	
			For Epoxy Resin, Add	305.07	
			For Up To >10, Add	2,413.92	
			For >10 To 25, Add	1,395.30	
			For >25 To 50, Add	1,022.07	
			For >50 To 100, Add	511.04	
			For >500 To 1,000, Deduct	-199.02	
			For >1,000 To 2,000, Deduct	-300.88	
			For >2,000 To 5,000, Deduct	-490.82	
			For >5,000, Deduct	-814.90	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0231	LF		31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,148.88	
			For Vinylster Resin, Add	2,763.43	
			For Epoxy Resin, Add	325.69	
			For Up To >10, Add	2,577.24	
			For >10 To 25, Add	1,489.74	
			For >25 To 50, Add	1,091.23	
			For >50 To 100, Add	545.62	
			For >500 To 1,000, Deduct	-212.47	
			For >1,000 To 2,000, Deduct	-321.22	
			For >2,000 To 5,000, Deduct	-524.01	
			For >5,000, Deduct	-870.00	
33 01 30 72-0232			33mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0233	LF		33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,038.21	
			For Vinylster Resin, Add	693.54	
			For Epoxy Resin, Add	81.74	
			For Up To >10, Add	637.71	
			For >10 To 25, Add	366.29	
			For >25 To 50, Add	269.31	
			For >50 To 100, Add	134.66	
			For >500 To 1,000, Deduct	-53.10	
			For >1,000 To 2,000, Deduct	-80.24	
			For >2,000 To 5,000, Deduct	-130.75	
			For >5,000, Deduct	-217.13	
33 01 30 72-0234	LF		33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,175.46	
			For Vinylster Resin, Add	785.19	
			For Epoxy Resin, Add	92.54	
			For Up To >10, Add	722.13	
			For >10 To 25, Add	414.83	
			For >25 To 50, Add	304.98	
			For >50 To 100, Add	152.49	
			For >500 To 1,000, Deduct	-60.12	
			For >1,000 To 2,000, Deduct	-90.85	
			For >2,000 To 5,000, Deduct	-148.04	
			For >5,000, Deduct	-245.84	
33 01 30 72-0235	LF		33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,312.56	
			For Vinylster Resin, Add	876.84	
			For Epoxy Resin, Add	103.34	
			For Up To >10, Add	806.11	
			For >10 To 25, Add	462.98	
			For >25 To 50, Add	340.42	
			For >50 To 100, Add	170.21	
			For >500 To 1,000, Deduct	-67.13	
			For >1,000 To 2,000, Deduct	-101.44	
			For >2,000 To 5,000, Deduct	-165.30	
			For >5,000, Deduct	-274.50	
33 01 30 72-0236	LF		33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,587.06	
			For Vinylster Resin, Add	1,060.16	
			For Epoxy Resin, Add	124.95	
			For Up To >10, Add	974.91	
			For >10 To 25, Add	560.00	
			For >25 To 50, Add	411.73	
			For >50 To 100, Add	205.86	
			For >500 To 1,000, Deduct	-81.17	
			For >1,000 To 2,000, Deduct	-122.66	
			For >2,000 To 5,000, Deduct	-199.88	
			For >5,000, Deduct	-331.92	
33 01 30 72-0237	LF		33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,861.42	
			For Vinylster Resin, Add	1,243.46	
			For Epoxy Resin, Add	146.55	
			For Up To >10, Add	1,143.34	
			For >10 To 25, Add	656.72	
			For >25 To 50, Add	482.85	
			For >50 To 100, Add	241.42	
			For >500 To 1,000, Deduct	-95.20	
			For >1,000 To 2,000, Deduct	-143.86	
			For >2,000 To 5,000, Deduct	-234.43	
			For >5,000, Deduct	-389.29	
33 01 30 72-0238	LF		33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,135.92	
			For Vinylster Resin, Add	1,426.77	
			For Epoxy Resin, Add	168.15	
			For Up To >10, Add	1,312.16	
			For >10 To 25, Add	753.76	
			For >25 To 50, Add	554.17	
			For >50 To 100, Add	277.08	
			For >500 To 1,000, Deduct	-109.24	
			For >1,000 To 2,000, Deduct	-165.08	
			For >2,000 To 5,000, Deduct	-269.01	
			For >5,000, Deduct	-446.72	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0239	LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,410.27	
	For Vinylester Resin, Add	1,610.07	
	For Epoxy Resin, Add	189.76	
	For Up To >10, Add	1,480.56	
	For >10 To 25, Add	850.45	
	For >25 To 50, Add	625.28	
	For >50 To 100, Add	312.64	
	For >500 To 1,000, Deduct	-123.27	
	For >1,000 To 2,000, Deduct	-186.28	
	For >2,000 To 5,000, Deduct	-303.55	
	For >5,000, Deduct	-504.09	
33 01 30 72-0240	LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,684.64	
	For Vinylester Resin, Add	1,793.39	
	For Epoxy Resin, Add	211.36	
	For Up To >10, Add	1,648.97	
	For >10 To 25, Add	947.15	
	For >25 To 50, Add	696.39	
	For >50 To 100, Add	348.19	
	For >500 To 1,000, Deduct	-137.30	
	For >1,000 To 2,000, Deduct	-207.48	
	For >2,000 To 5,000, Deduct	-338.10	
	For >5,000, Deduct	-561.46	
33 01 30 72-0241	LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,965.87	
	For Vinylester Resin, Add	1,976.69	
	For Epoxy Resin, Add	232.97	
	For Up To >10, Add	1,838.01	
	For >10 To 25, Add	1,061.04	
	For >25 To 50, Add	777.81	
	For >50 To 100, Add	388.91	
	For >500 To 1,000, Deduct	-151.84	
	For >1,000 To 2,000, Deduct	-229.54	
	For >2,000 To 5,000, Deduct	-374.37	
	For >5,000, Deduct	-621.58	
33 01 30 72-0242	LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,241.35	
	For Vinylester Resin, Add	2,160.00	
	For Epoxy Resin, Add	254.57	
	For Up To >10, Add	2,009.78	
	For >10 To 25, Add	1,160.53	
	For >25 To 50, Add	850.60	
	For >50 To 100, Add	425.30	
	For >500 To 1,000, Deduct	-165.96	
	For >1,000 To 2,000, Deduct	-250.88	
	For >2,000 To 5,000, Deduct	-409.20	
	For >5,000, Deduct	-679.40	
33 01 30 72-0243	LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,515.84	
	For Vinylester Resin, Add	2,343.30	
	For Epoxy Resin, Add	276.17	
	For Up To >10, Add	2,178.60	
	For >10 To 25, Add	1,257.57	
	For >25 To 50, Add	921.92	
	For >50 To 100, Add	460.96	
	For >500 To 1,000, Deduct	-180.00	
	For >1,000 To 2,000, Deduct	-272.10	
	For >2,000 To 5,000, Deduct	-443.78	
	For >5,000, Deduct	-736.82	
33 01 30 72-0244	LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,790.91	
	For Vinylester Resin, Add	2,526.61	
	For Epoxy Resin, Add	297.78	
	For Up To >10, Add	2,349.13	
	For >10 To 25, Add	1,356.04	
	For >25 To 50, Add	994.09	
	For >50 To 100, Add	497.05	
	For >500 To 1,000, Deduct	-194.08	
	For >1,000 To 2,000, Deduct	-293.39	
	For >2,000 To 5,000, Deduct	-478.50	
	For >5,000, Deduct	-794.48	
33 01 30 72-0245	LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,065.97	
	For Vinylester Resin, Add	2,709.92	
	For Epoxy Resin, Add	319.38	
	For Up To >10, Add	2,519.64	
	For >10 To 25, Add	1,454.48	
	For >25 To 50, Add	1,066.25	
	For >50 To 100, Add	533.13	
	For >500 To 1,000, Deduct	-208.17	
	For >1,000 To 2,000, Deduct	-314.68	
	For >2,000 To 5,000, Deduct	-513.22	
	For >5,000, Deduct	-852.13	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,341.03	
For Vinylester Resin, Add	2,893.23	
For Epoxy Resin, Add	340.99	
For Up To >10, Add	2,690.14	
For >10 To 25, Add	1,552.92	
For >25 To 50, Add	1,138.41	
For >50 To 100, Add	569.21	
For >500 To 1,000, Deduct	-222.25	
For >1,000 To 2,000, Deduct	-335.97	
For >2,000 To 5,000, Deduct	-547.94	
For >5,000, Deduct	-909.78	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,225.00	
For Vinylester Resin, Add	818.99	
For Epoxy Resin, Add	96.52	
For Up To >10, Add	750.03	
For >10 To 25, Add	430.02	
For >25 To 50, Add	316.51	
For >50 To 100, Add	158.26	
For >500 To 1,000, Deduct	-62.63	
For >1,000 To 2,000, Deduct	-94.63	
For >2,000 To 5,000, Deduct	-154.15	
For >5,000, Deduct	-256.00	
33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,368.34	
For Vinylester Resin, Add	914.81	
For Epoxy Resin, Add	107.82	
For Up To >10, Add	837.85	
For >10 To 25, Add	480.39	
For >25 To 50, Add	353.58	
For >50 To 100, Add	176.79	
For >500 To 1,000, Deduct	-69.95	
For >1,000 To 2,000, Deduct	-105.70	
For >2,000 To 5,000, Deduct	-172.19	
For >5,000, Deduct	-285.96	
33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,655.03	
For Vinylester Resin, Add	1,106.46	
For Epoxy Resin, Add	130.40	
For Up To >10, Add	1,013.47	
For >10 To 25, Add	581.11	
For >25 To 50, Add	427.70	
For >50 To 100, Add	213.85	
For >500 To 1,000, Deduct	-84.61	
For >1,000 To 2,000, Deduct	-127.85	
For >2,000 To 5,000, Deduct	-208.27	
For >5,000, Deduct	-345.88	
33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,941.58	
For Vinylester Resin, Add	1,298.09	
For Epoxy Resin, Add	152.99	
For Up To >10, Add	1,188.69	
For >10 To 25, Add	681.51	
For >25 To 50, Add	501.62	
For >50 To 100, Add	250.81	
For >500 To 1,000, Deduct	-99.26	
For >1,000 To 2,000, Deduct	-149.98	
For >2,000 To 5,000, Deduct	-244.32	
For >5,000, Deduct	-405.75	
33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,228.25	
For Vinylester Resin, Add	1,489.73	
For Epoxy Resin, Add	175.58	
For Up To >10, Add	1,364.28	
For >10 To 25, Add	782.20	
For >25 To 50, Add	575.73	
For >50 To 100, Add	287.86	
For >500 To 1,000, Deduct	-113.91	
For >1,000 To 2,000, Deduct	-172.12	
For >2,000 To 5,000, Deduct	-280.40	
For >5,000, Deduct	-465.66	
33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,514.79	
For Vinylester Resin, Add	1,681.37	
For Epoxy Resin, Add	198.16	
For Up To >10, Add	1,539.47	
For >10 To 25, Add	882.57	
For >25 To 50, Add	649.64	
For >50 To 100, Add	324.82	
For >500 To 1,000, Deduct	-128.56	
For >1,000 To 2,000, Deduct	-194.25	
For >2,000 To 5,000, Deduct	-316.44	
For >5,000, Deduct	-525.52	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 01 30 72-0254	LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,801.48		
	For Vinlyester Resin, Add	1,873.01		
	For Epoxy Resin, Add	220.75		
	For Up To >10, Add	1,715.12		
	For >10 To 25, Add	983.31		
	For >25 To 50, Add	723.77		
	For >50 To 100, Add	361.89		
	For >500 To 1,000, Deduct	-143.22		
	For >1,000 To 2,000, Deduct	-216.40		
	For >2,000 To 5,000, Deduct	-352.53		
	For >5,000, Deduct	-585.45		
33 01 30 72-0255	LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,095.04		
	For Vinlyester Resin, Add	2,064.65		
	For Epoxy Resin, Add	243.33		
	For Up To >10, Add	1,911.37		
	For >10 To 25, Add	1,101.23		
	For >25 To 50, Add	808.21		
	For >50 To 100, Add	404.11		
	For >500 To 1,000, Deduct	-158.39		
	For >1,000 To 2,000, Deduct	-239.41		
	For >2,000 To 5,000, Deduct	-390.33		
	For >5,000, Deduct	-648.12		
33 01 30 72-0256	LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,382.56		
	For Vinlyester Resin, Add	2,256.29		
	For Epoxy Resin, Add	265.92		
	For Up To >10, Add	2,089.51		
	For >10 To 25, Add	1,204.04		
	For >25 To 50, Add	883.59		
	For >50 To 100, Add	441.79		
	For >500 To 1,000, Deduct	-173.11		
	For >1,000 To 2,000, Deduct	-261.66		
	For >2,000 To 5,000, Deduct	-426.61		
	For >5,000, Deduct	-708.37		
33 01 30 72-0257	LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,667.28		
	For Vinlyester Resin, Add	2,447.93		
	For Epoxy Resin, Add	288.51		
	For Up To >10, Add	2,259.24		
	For >10 To 25, Add	1,299.86		
	For >25 To 50, Add	954.77		
	For >50 To 100, Add	477.38		
	For >500 To 1,000, Deduct	-187.62		
	For >1,000 To 2,000, Deduct	-283.56		
	For >2,000 To 5,000, Deduct	-462.20		
	For >5,000, Deduct	-767.50		
33 01 30 72-0258	LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,956.91		
	For Vinlyester Resin, Add	2,639.57		
	For Epoxy Resin, Add	311.09		
	For Up To >10, Add	2,443.71		
	For >10 To 25, Add	1,407.95		
	For >25 To 50, Add	1,033.31		
	For >50 To 100, Add	516.66		
	For >500 To 1,000, Deduct	-202.50		
	For >1,000 To 2,000, Deduct	-306.07		
	For >2,000 To 5,000, Deduct	-499.02		
	For >5,000, Deduct	-828.60		
33 01 30 72-0259	LF 34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,244.15		
	For Vinlyester Resin, Add	2,831.21		
	For Epoxy Resin, Add	333.68		
	For Up To >10, Add	2,621.00		
	For >10 To 25, Add	1,510.07		
	For >25 To 50, Add	1,108.27		
	For >50 To 100, Add	554.14		
	For >500 To 1,000, Deduct	-217.20		
	For >1,000 To 2,000, Deduct	-328.29		
	For >2,000 To 5,000, Deduct	-535.24		
	For >5,000, Deduct	-888.74		
33 01 30 72-0260	LF 34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,531.40		
	For Vinlyester Resin, Add	3,022.85		
	For Epoxy Resin, Add	356.26		
	For Up To >10, Add	2,798.33		
	For >10 To 25, Add	1,612.21		
	For >25 To 50, Add	1,183.25		
	For >50 To 100, Add	591.62		
	For >500 To 1,000, Deduct	-231.90		
	For >1,000 To 2,000, Deduct	-350.51		
	For >2,000 To 5,000, Deduct	-571.46		
	For >5,000, Deduct	-948.89		

33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0262	LF		36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,274.33	
			For Vinylester Resin, Add	852.64	
			For Epoxy Resin, Add	100.49	
			For Up To >10, Add	777.87	
			For >10 To 25, Add	445.21	
			For >25 To 50, Add	328.03	
			For >50 To 100, Add	164.02	
			For >500 To 1,000, Deduct	-65.12	
			For >1,000 To 2,000, Deduct	-98.39	
			For >2,000 To 5,000, Deduct	-160.24	
			For >5,000, Deduct	-266.12	
33 01 30 72-0263	LF		36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,423.76	
			For Vinylester Resin, Add	952.62	
			For Epoxy Resin, Add	112.27	
			For Up To >10, Add	869.08	
			For >10 To 25, Add	497.42	
			For >25 To 50, Add	366.50	
			For >50 To 100, Add	183.25	
			For >500 To 1,000, Deduct	-72.76	
			For >1,000 To 2,000, Deduct	-109.93	
			For >2,000 To 5,000, Deduct	-179.03	
			For >5,000, Deduct	-297.33	
33 01 30 72-0264	LF		36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,722.62	
			For Vinylester Resin, Add	1,152.59	
			For Epoxy Resin, Add	135.84	
			For Up To >10, Add	1,051.46	
			For >10 To 25, Add	601.79	
			For >25 To 50, Add	443.40	
			For >50 To 100, Add	221.70	
			For >500 To 1,000, Deduct	-88.03	
			For >1,000 To 2,000, Deduct	-133.00	
			For >2,000 To 5,000, Deduct	-216.60	
			For >5,000, Deduct	-359.74	
33 01 30 72-0265	LF		36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,021.50	
			For Vinylester Resin, Add	1,352.57	
			For Epoxy Resin, Add	159.41	
			For Up To >10, Add	1,233.90	
			For >10 To 25, Add	706.21	
			For >25 To 50, Add	520.34	
			For >50 To 100, Add	260.17	
			For >500 To 1,000, Deduct	-103.31	
			For >1,000 To 2,000, Deduct	-156.08	
			For >2,000 To 5,000, Deduct	-254.18	
			For >5,000, Deduct	-422.15	
33 01 30 72-0266	LF		36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,320.22	
			For Vinylester Resin, Add	1,552.54	
			For Epoxy Resin, Add	182.98	
			For Up To >10, Add	1,415.89	
			For >10 To 25, Add	810.25	
			For >25 To 50, Add	597.05	
			For >50 To 100, Add	298.52	
			For >500 To 1,000, Deduct	-118.57	
			For >1,000 To 2,000, Deduct	-179.13	
			For >2,000 To 5,000, Deduct	-291.73	
			For >5,000, Deduct	-484.51	
33 01 30 72-0267	LF		36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,619.08	
			For Vinylester Resin, Add	1,752.51	
			For Epoxy Resin, Add	206.55	
			For Up To >10, Add	1,598.29	
			For >10 To 25, Add	914.65	
			For >25 To 50, Add	673.97	
			For >50 To 100, Add	336.98	
			For >500 To 1,000, Deduct	-133.84	
			For >1,000 To 2,000, Deduct	-202.21	
			For >2,000 To 5,000, Deduct	-329.30	
			For >5,000, Deduct	-546.92	
33 01 30 72-0268	LF		36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,917.95	
			For Vinylester Resin, Add	1,952.48	
			For Epoxy Resin, Add	230.11	
			For Up To >10, Add	1,780.70	
			For >10 To 25, Add	1,019.04	
			For >25 To 50, Add	750.89	
			For >50 To 100, Add	375.44	
			For >500 To 1,000, Deduct	-149.11	
			For >1,000 To 2,000, Deduct	-225.28	
			For >2,000 To 5,000, Deduct	-366.88	
			For >5,000, Deduct	-609.33	



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Sewer Utilities		33 01 30	

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0269	LF 36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,223.88	
	For Vinlyester Resin, Add	2,152.45	
	For Epoxy Resin, Add	253.68	
	For Up To >10, Add	1,984.62	
	For >10 To 25, Add	1,141.36	
	For >25 To 50, Add	838.56	
	For >50 To 100, Add	419.28	
	For >500 To 1,000, Deduct	-164.93	
	For >1,000 To 2,000, Deduct	-249.25	
	For >2,000 To 5,000, Deduct	-406.25	
	For >5,000, Deduct	-674.61	
33 01 30 72-0270	LF 36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,523.54	
	For Vinlyester Resin, Add	2,352.42	
	For Epoxy Resin, Add	277.25	
	For Up To >10, Add	2,169.12	
	For >10 To 25, Add	1,247.50	
	For >25 To 50, Add	916.53	
	For >50 To 100, Add	458.27	
	For >500 To 1,000, Deduct	-180.25	
	For >1,000 To 2,000, Deduct	-272.41	
	For >2,000 To 5,000, Deduct	-444.01	
	For >5,000, Deduct	-737.30	
33 01 30 72-0271	LF 36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,818.34	
	For Vinlyester Resin, Add	2,552.40	
	For Epoxy Resin, Add	300.82	
	For Up To >10, Add	2,339.32	
	For >10 To 25, Add	1,341.72	
	For >25 To 50, Add	987.35	
	For >50 To 100, Add	493.67	
	For >500 To 1,000, Deduct	-195.22	
	For >1,000 To 2,000, Deduct	-294.98	
	For >2,000 To 5,000, Deduct	-480.57	
	For >5,000, Deduct	-798.08	
33 01 30 72-0272	LF 36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,122.54	
	For Vinlyester Resin, Add	2,752.37	
	For Epoxy Resin, Add	324.39	
	For Up To >10, Add	2,537.75	
	For >10 To 25, Add	1,459.46	
	For >25 To 50, Add	1,072.28	
	For >50 To 100, Add	536.14	
	For >500 To 1,000, Deduct	-210.89	
	For >1,000 To 2,000, Deduct	-318.72	
	For >2,000 To 5,000, Deduct	-519.48	
	For >5,000, Deduct	-862.63	
33 01 30 72-0273	LF 36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,422.11	
	For Vinlyester Resin, Add	2,952.33	
	For Epoxy Resin, Add	347.95	
	For Up To >10, Add	2,722.28	
	For >10 To 25, Add	1,565.63	
	For >25 To 50, Add	1,150.26	
	For >50 To 100, Add	575.13	
	For >500 To 1,000, Deduct	-226.22	
	For >1,000 To 2,000, Deduct	-341.88	
	For >2,000 To 5,000, Deduct	-557.24	
	For >5,000, Deduct	-925.32	
33 01 30 72-0274	LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,721.68	
	For Vinlyester Resin, Add	3,152.31	
	For Epoxy Resin, Add	371.52	
	For Up To >10, Add	2,906.79	
	For >10 To 25, Add	1,671.78	
	For >25 To 50, Add	1,228.23	
	For >50 To 100, Add	614.12	
	For >500 To 1,000, Deduct	-241.54	
	For >1,000 To 2,000, Deduct	-365.05	
	For >2,000 To 5,000, Deduct	-594.99	
	For >5,000, Deduct	-988.01	
33 01 30 72-0275	LF 36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,021.10	
	For Vinlyester Resin, Add	3,352.28	
	For Epoxy Resin, Add	395.09	
	For Up To >10, Add	3,090.88	
	For >10 To 25, Add	1,777.57	
	For >25 To 50, Add	1,305.99	
	For >50 To 100, Add	652.99	
	For >500 To 1,000, Deduct	-256.86	
	For >1,000 To 2,000, Deduct	-388.19	
	For >2,000 To 5,000, Deduct	-632.71	
	For >5,000, Deduct	-1,050.65	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,320.66	
For Vinylester Resin, Add	3,552.25	
For Epoxy Resin, Add	418.66	
For Up To >10, Add	3,275.38	
For >10 To 25, Add	1,883.71	
For >25 To 50, Add	1,383.96	
For >50 To 100, Add	691.98	
For >500 To 1,000, Deduct	-272.18	
For >1,000 To 2,000, Deduct	-411.35	
For >2,000 To 5,000, Deduct	-670.46	
For >5,000, Deduct	-1,113.34	
33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,478.80	
For Vinylester Resin, Add	990.26	
For Epoxy Resin, Add	116.71	
For Up To >10, Add	899.75	
For >10 To 25, Add	514.02	
For >25 To 50, Add	379.14	
For >50 To 100, Add	189.57	
For >500 To 1,000, Deduct	-75.54	
For >1,000 To 2,000, Deduct	-114.12	
For >2,000 To 5,000, Deduct	-185.79	
For >5,000, Deduct	-308.59	
33 01 30 72-0279 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,789.85	
For Vinylester Resin, Add	1,198.57	
For Epoxy Resin, Add	141.26	
For Up To >10, Add	1,088.95	
For >10 To 25, Add	622.09	
For >25 To 50, Add	458.86	
For >50 To 100, Add	229.43	
For >500 To 1,000, Deduct	-91.43	
For >1,000 To 2,000, Deduct	-138.12	
For >2,000 To 5,000, Deduct	-224.87	
For >5,000, Deduct	-373.49	
33 01 30 72-0280 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,100.90	
For Vinylester Resin, Add	1,406.87	
For Epoxy Resin, Add	165.81	
For Up To >10, Add	1,278.15	
For >10 To 25, Add	730.16	
For >25 To 50, Add	538.58	
For >50 To 100, Add	269.29	
For >500 To 1,000, Deduct	-107.32	
For >1,000 To 2,000, Deduct	-162.12	
For >2,000 To 5,000, Deduct	-263.95	
For >5,000, Deduct	-438.40	
33 01 30 72-0281 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,411.95	
For Vinylester Resin, Add	1,615.17	
For Epoxy Resin, Add	190.36	
For Up To >10, Add	1,467.38	
For >10 To 25, Add	838.25	
For >25 To 50, Add	618.32	
For >50 To 100, Add	309.16	
For >500 To 1,000, Deduct	-123.21	
For >1,000 To 2,000, Deduct	-186.12	
For >2,000 To 5,000, Deduct	-303.03	
For >5,000, Deduct	-503.30	
33 01 30 72-0282 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,723.00	
For Vinylester Resin, Add	1,823.48	
For Epoxy Resin, Add	214.91	
For Up To >10, Add	1,656.58	
For >10 To 25, Add	946.32	
For >25 To 50, Add	698.04	
For >50 To 100, Add	349.02	
For >500 To 1,000, Deduct	-139.10	
For >1,000 To 2,000, Deduct	-210.13	
For >2,000 To 5,000, Deduct	-342.10	
For >5,000, Deduct	-568.21	
33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,034.05	
For Vinylester Resin, Add	2,031.79	
For Epoxy Resin, Add	239.46	
For Up To >10, Add	1,845.78	
For >10 To 25, Add	1,054.39	
For >25 To 50, Add	777.76	
For >50 To 100, Add	388.88	
For >500 To 1,000, Deduct	-154.99	
For >1,000 To 2,000, Deduct	-234.13	
For >2,000 To 5,000, Deduct	-381.18	
For >5,000, Deduct	-633.11	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
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MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0284	LF		37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,352.40	
			For Vinlyester Resin, Add	2,240.08	
			For Epoxy Resin, Add	264.01	
			For Up To >10, Add	2,056.90	
			For >10 To 25, Add	1,180.73	
			For >25 To 50, Add	868.44	
			For >50 To 100, Add	434.22	
			For >500 To 1,000, Deduct	-171.43	
			For >1,000 To 2,000, Deduct	-259.04	
			For >2,000 To 5,000, Deduct	-422.08	
			For >5,000, Deduct	-700.94	
33 01 30 72-0285	LF		37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,664.14	
			For Vinlyester Resin, Add	2,448.38	
			For Epoxy Resin, Add	288.56	
			For Up To >10, Add	2,248.20	
			For >10 To 25, Add	1,290.55	
			For >25 To 50, Add	949.21	
			For >50 To 100, Add	474.61	
			For >500 To 1,000, Deduct	-187.37	
			For >1,000 To 2,000, Deduct	-283.13	
			For >2,000 To 5,000, Deduct	-461.34	
			For >5,000, Deduct	-766.12	
33 01 30 72-0286	LF		37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,973.51	
			For Vinlyester Resin, Add	2,656.69	
			For Epoxy Resin, Add	313.11	
			For Up To >10, Add	2,432.36	
			For >10 To 25, Add	1,394.42	
			For >25 To 50, Add	1,026.41	
			For >50 To 100, Add	513.21	
			For >500 To 1,000, Deduct	-203.13	
			For >1,000 To 2,000, Deduct	-306.93	
			For >2,000 To 5,000, Deduct	-499.99	
			For >5,000, Deduct	-830.35	
33 01 30 72-0287	LF		37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,287.65	
			For Vinlyester Resin, Add	2,865.00	
			For Epoxy Resin, Add	337.66	
			For Up To >10, Add	2,630.83	
			For >10 To 25, Add	1,510.21	
			For >25 To 50, Add	1,110.77	
			For >50 To 100, Add	555.39	
			For >500 To 1,000, Deduct	-219.25	
			For >1,000 To 2,000, Deduct	-331.31	
			For >2,000 To 5,000, Deduct	-539.84	
			For >5,000, Deduct	-896.49	
33 01 30 72-0288	LF		37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,599.40	
			For Vinlyester Resin, Add	3,073.30	
			For Epoxy Resin, Add	362.21	
			For Up To >10, Add	2,822.13	
			For >10 To 25, Add	1,620.03	
			For >25 To 50, Add	1,191.54	
			For >50 To 100, Add	595.77	
			For >500 To 1,000, Deduct	-235.19	
			For >1,000 To 2,000, Deduct	-355.40	
			For >2,000 To 5,000, Deduct	-579.09	
			For >5,000, Deduct	-961.67	
33 01 30 72-0289	LF		37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,911.01	
			For Vinlyester Resin, Add	3,281.60	
			For Epoxy Resin, Add	386.76	
			For Up To >10, Add	3,013.03	
			For >10 To 25, Add	1,729.53	
			For >25 To 50, Add	1,272.12	
			For >50 To 100, Add	636.06	
			For >500 To 1,000, Deduct	-251.13	
			For >1,000 To 2,000, Deduct	-379.48	
			For >2,000 To 5,000, Deduct	-618.31	
			For >5,000, Deduct	-1,026.80	
33 01 30 72-0290	LF		37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,222.76	
			For Vinlyester Resin, Add	3,489.91	
			For Epoxy Resin, Add	411.31	
			For Up To >10, Add	3,204.33	
			For >10 To 25, Add	1,839.35	
			For >25 To 50, Add	1,352.89	
			For >50 To 100, Add	676.44	
			For >500 To 1,000, Deduct	-267.07	
			For >1,000 To 2,000, Deduct	-403.57	
			For >2,000 To 5,000, Deduct	-657.56	
			For >5,000, Deduct	-1,091.99	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,534.51	
For Vinylster Resin, Add	3,698.21	
For Epoxy Resin, Add	435.86	
For Up To >10, Add	3,395.63	
For >10 To 25, Add	1,949.17	
For >25 To 50, Add	1,433.66	
For >50 To 100, Add	716.83	
For >500 To 1,000, Deduct	-283.01	
For >1,000 To 2,000, Deduct	-427.66	
For >2,000 To 5,000, Deduct	-696.82	
For >5,000, Deduct	-1,157.17	
33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,856.83	
For Vinylster Resin, Add	1,244.38	
For Epoxy Resin, Add	146.66	
For Up To >10, Add	1,126.29	
For >10 To 25, Add	642.30	
For >25 To 50, Add	474.26	
For >50 To 100, Add	237.13	
For >500 To 1,000, Deduct	-94.82	
For >1,000 To 2,000, Deduct	-143.22	
For >2,000 To 5,000, Deduct	-233.11	
For >5,000, Deduct	-387.20	
33 01 30 72-0294 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,180.07	
For Vinylster Resin, Add	1,461.01	
For Epoxy Resin, Add	172.19	
For Up To >10, Add	1,322.31	
For >10 To 25, Add	754.07	
For >25 To 50, Add	556.80	
For >50 To 100, Add	278.40	
For >500 To 1,000, Deduct	-111.33	
For >1,000 To 2,000, Deduct	-168.15	
For >2,000 To 5,000, Deduct	-273.69	
For >5,000, Deduct	-454.60	
33 01 30 72-0295 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,503.30	
For Vinylster Resin, Add	1,677.65	
For Epoxy Resin, Add	197.72	
For Up To >10, Add	1,518.30	
For >10 To 25, Add	865.81	
For >25 To 50, Add	639.32	
For >50 To 100, Add	319.66	
For >500 To 1,000, Deduct	-127.83	
For >1,000 To 2,000, Deduct	-193.08	
For >2,000 To 5,000, Deduct	-314.26	
For >5,000, Deduct	-521.99	
33 01 30 72-0296 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,826.54	
For Vinylster Resin, Add	1,894.28	
For Epoxy Resin, Add	223.25	
For Up To >10, Add	1,714.32	
For >10 To 25, Add	977.58	
For >25 To 50, Add	721.85	
For >50 To 100, Add	360.93	
For >500 To 1,000, Deduct	-144.34	
For >1,000 To 2,000, Deduct	-218.01	
For >2,000 To 5,000, Deduct	-354.84	
For >5,000, Deduct	-589.39	
33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,149.91	
For Vinylster Resin, Add	2,110.92	
For Epoxy Resin, Add	248.79	
For Up To >10, Add	1,910.73	
For >10 To 25, Add	1,089.68	
For >25 To 50, Add	804.59	
For >50 To 100, Add	402.29	
For >500 To 1,000, Deduct	-160.85	
For >1,000 To 2,000, Deduct	-242.96	
For >2,000 To 5,000, Deduct	-395.45	
For >5,000, Deduct	-656.84	
33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,480.45	
For Vinylster Resin, Add	2,327.56	
For Epoxy Resin, Add	274.32	
For Up To >10, Add	2,128.65	
For >10 To 25, Add	1,219.70	
For >25 To 50, Add	898.07	
For >50 To 100, Add	449.04	
For >500 To 1,000, Deduct	-177.91	
For >1,000 To 2,000, Deduct	-268.80	
For >2,000 To 5,000, Deduct	-437.85	
For >5,000, Deduct	-727.16	



Utilities		33	CS
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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 01 30 72-0299	LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,804.38	
	For Vinlyester Resin, Add	2,544.19	
	For Epoxy Resin, Add	299.85	
	For Up To >10, Add	2,326.74	
	For >10 To 25, Add	1,333.19	
	For >25 To 50, Add	981.64	
	For >50 To 100, Add	490.82	
	For >500 To 1,000, Deduct	-194.46	
	For >1,000 To 2,000, Deduct	-293.82	
	For >2,000 To 5,000, Deduct	-478.60	
	For >5,000, Deduct	-794.84	
33 01 30 72-0300	LF 39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,128.31	
	For Vinlyester Resin, Add	2,760.83	
	For Epoxy Resin, Add	325.38	
	For Up To >10, Add	2,524.83	
	For >10 To 25, Add	1,446.69	
	For >25 To 50, Add	1,065.21	
	For >50 To 100, Add	532.61	
	For >500 To 1,000, Deduct	-211.02	
	For >1,000 To 2,000, Deduct	-318.84	
	For >2,000 To 5,000, Deduct	-519.35	
	For >5,000, Deduct	-862.52	
33 01 30 72-0301	LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,452.38	
	For Vinlyester Resin, Add	2,977.46	
	For Epoxy Resin, Add	350.92	
	For Up To >10, Add	2,723.34	
	For >10 To 25, Add	1,560.53	
	For >25 To 50, Add	1,148.99	
	For >50 To 100, Add	574.50	
	For >500 To 1,000, Deduct	-227.59	
	For >1,000 To 2,000, Deduct	-343.87	
	For >2,000 To 5,000, Deduct	-560.14	
	For >5,000, Deduct	-930.25	
33 01 30 72-0302	LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,776.33	
	For Vinlyester Resin, Add	3,194.10	
	For Epoxy Resin, Add	376.45	
	For Up To >10, Add	2,921.49	
	For >10 To 25, Add	1,674.08	
	For >25 To 50, Add	1,232.60	
	For >50 To 100, Add	616.30	
	For >500 To 1,000, Deduct	-244.15	
	For >1,000 To 2,000, Deduct	-368.89	
	For >2,000 To 5,000, Deduct	-600.89	
	For >5,000, Deduct	-997.93	
33 01 30 72-0303	LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,100.26	
	For Vinlyester Resin, Add	3,410.74	
	For Epoxy Resin, Add	401.98	
	For Up To >10, Add	3,119.58	
	For >10 To 25, Add	1,787.57	
	For >25 To 50, Add	1,316.17	
	For >50 To 100, Add	658.08	
	For >500 To 1,000, Deduct	-260.71	
	For >1,000 To 2,000, Deduct	-393.91	
	For >2,000 To 5,000, Deduct	-641.64	
	For >5,000, Deduct	-1,065.61	
33 01 30 72-0304	LF 39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,424.19	
	For Vinlyester Resin, Add	3,627.37	
	For Epoxy Resin, Add	427.51	
	For Up To >10, Add	3,317.67	
	For >10 To 25, Add	1,901.07	
	For >25 To 50, Add	1,399.74	
	For >50 To 100, Add	699.87	
	For >500 To 1,000, Deduct	-277.27	
	For >1,000 To 2,000, Deduct	-418.93	
	For >2,000 To 5,000, Deduct	-682.39	
	For >5,000, Deduct	-1,133.28	
33 01 30 72-0305	LF 39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,748.13	
	For Vinlyester Resin, Add	3,844.01	
	For Epoxy Resin, Add	453.04	
	For Up To >10, Add	3,515.79	
	For >10 To 25, Add	2,014.59	
	For >25 To 50, Add	1,483.32	
	For >50 To 100, Add	741.66	
	For >500 To 1,000, Deduct	-293.82	
	For >1,000 To 2,000, Deduct	-443.94	
	For >2,000 To 5,000, Deduct	-723.15	
	For >5,000, Deduct	-1,200.96	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,072.07	
For Vinlyester Resin, Add	4,060.64	
For Epoxy Resin, Add	478.58	
For Up To >10, Add	3,713.91	
For >10 To 25, Add	2,128.11	
For >25 To 50, Add	1,566.91	
For >50 To 100, Add	783.45	
For >500 To 1,000, Deduct	-310.38	
For >1,000 To 2,000, Deduct	-468.96	
For >2,000 To 5,000, Deduct	-763.90	
For >5,000, Deduct	-1,268.64	
33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,396.00	
For Vinlyester Resin, Add	4,277.28	
For Epoxy Resin, Add	504.11	
For Up To >10, Add	3,912.00	
For >10 To 25, Add	2,241.60	
For >25 To 50, Add	1,650.48	
For >50 To 100, Add	825.24	
For >500 To 1,000, Deduct	-326.94	
For >1,000 To 2,000, Deduct	-493.98	
For >2,000 To 5,000, Deduct	-804.65	
For >5,000, Deduct	-1,336.32	
33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0309 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,258.87	
For Vinlyester Resin, Add	1,515.00	
For Epoxy Resin, Add	178.55	
For Up To >10, Add	1,365.91	
For >10 To 25, Add	777.55	
For >25 To 50, Add	574.74	
For >50 To 100, Add	287.37	
For >500 To 1,000, Deduct	-115.31	
For >1,000 To 2,000, Deduct	-174.14	
For >2,000 To 5,000, Deduct	-283.36	
For >5,000, Deduct	-470.69	
33 01 30 72-0310 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,594.28	
For Vinlyester Resin, Add	1,739.96	
For Epoxy Resin, Add	205.07	
For Up To >10, Add	1,568.72	
For >10 To 25, Add	892.99	
For >25 To 50, Add	660.08	
For >50 To 100, Add	330.04	
For >500 To 1,000, Deduct	-132.43	
For >1,000 To 2,000, Deduct	-200.00	
For >2,000 To 5,000, Deduct	-325.44	
For >5,000, Deduct	-540.58	
33 01 30 72-0311 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,929.70	
For Vinlyester Resin, Add	1,964.93	
For Epoxy Resin, Add	231.58	
For Up To >10, Add	1,771.50	
For >10 To 25, Add	1,008.41	
For >25 To 50, Add	745.40	
For >50 To 100, Add	372.70	
For >500 To 1,000, Deduct	-149.55	
For >1,000 To 2,000, Deduct	-225.86	
For >2,000 To 5,000, Deduct	-367.51	
For >5,000, Deduct	-610.47	
33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,265.12	
For Vinlyester Resin, Add	2,189.89	
For Epoxy Resin, Add	258.09	
For Up To >10, Add	1,974.31	
For >10 To 25, Add	1,123.86	
For >25 To 50, Add	830.73	
For >50 To 100, Add	415.37	
For >500 To 1,000, Deduct	-166.67	
For >1,000 To 2,000, Deduct	-251.72	
For >2,000 To 5,000, Deduct	-409.59	
For >5,000, Deduct	-680.36	
33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,608.12	
For Vinlyester Resin, Add	2,414.87	
For Epoxy Resin, Add	284.61	
For Up To >10, Add	2,199.84	
For >10 To 25, Add	1,258.23	
For >25 To 50, Add	927.43	
For >50 To 100, Add	463.71	
For >500 To 1,000, Deduct	-184.36	
For >1,000 To 2,000, Deduct	-278.52	
For >2,000 To 5,000, Deduct	-453.55	
For >5,000, Deduct	-753.29	



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MINOR	CS	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0314	LF		40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,944.24	
			For Vinlyester Resin, Add	2,639.83	
			For Epoxy Resin, Add	311.12	
			For Up To >10, Add	2,404.75	
			For >10 To 25, Add	1,375.42	
			For >25 To 50, Add	1,013.81	
			For >50 To 100, Add	506.91	
			For >500 To 1,000, Deduct	-201.54	
			For >1,000 To 2,000, Deduct	-304.47	
			For >2,000 To 5,000, Deduct	-495.81	
			For >5,000, Deduct	-823.46	
33 01 30 72-0315	LF		40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,280.35	
			For Vinlyester Resin, Add	2,864.80	
			For Epoxy Resin, Add	337.64	
			For Up To >10, Add	2,609.63	
			For >10 To 25, Add	1,492.59	
			For >25 To 50, Add	1,100.18	
			For >50 To 100, Add	550.09	
			For >500 To 1,000, Deduct	-218.71	
			For >1,000 To 2,000, Deduct	-330.42	
			For >2,000 To 5,000, Deduct	-538.05	
			For >5,000, Deduct	-893.63	
33 01 30 72-0316	LF		40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,616.47	
			For Vinlyester Resin, Add	3,089.77	
			For Epoxy Resin, Add	364.15	
			For Up To >10, Add	2,814.54	
			For >10 To 25, Add	1,609.79	
			For >25 To 50, Add	1,186.57	
			For >50 To 100, Add	593.29	
			For >500 To 1,000, Deduct	-235.89	
			For >1,000 To 2,000, Deduct	-356.36	
			For >2,000 To 5,000, Deduct	-580.30	
			For >5,000, Deduct	-963.80	
33 01 30 72-0317	LF		40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,952.59	
			For Vinlyester Resin, Add	3,314.74	
			For Epoxy Resin, Add	390.67	
			For Up To >10, Add	3,019.42	
			For >10 To 25, Add	1,726.96	
			For >25 To 50, Add	1,272.94	
			For >50 To 100, Add	636.47	
			For >500 To 1,000, Deduct	-253.06	
			For >1,000 To 2,000, Deduct	-382.31	
			For >2,000 To 5,000, Deduct	-622.55	
			For >5,000, Deduct	-1,033.97	
33 01 30 72-0318	LF		40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,288.71	
			For Vinlyester Resin, Add	3,539.70	
			For Epoxy Resin, Add	417.18	
			For Up To >10, Add	3,224.33	
			For >10 To 25, Add	1,844.16	
			For >25 To 50, Add	1,359.33	
			For >50 To 100, Add	679.66	
			For >500 To 1,000, Deduct	-270.24	
			For >1,000 To 2,000, Deduct	-408.25	
			For >2,000 To 5,000, Deduct	-664.80	
			For >5,000, Deduct	-1,104.14	
33 01 30 72-0319	LF		40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,624.83	
			For Vinlyester Resin, Add	3,764.67	
			For Epoxy Resin, Add	443.69	
			For Up To >10, Add	3,429.24	
			For >10 To 25, Add	1,961.35	
			For >25 To 50, Add	1,445.72	
			For >50 To 100, Add	722.86	
			For >500 To 1,000, Deduct	-287.41	
			For >1,000 To 2,000, Deduct	-434.20	
			For >2,000 To 5,000, Deduct	-707.05	
			For >5,000, Deduct	-1,174.31	
33 01 30 72-0320	LF		40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,960.94	
			For Vinlyester Resin, Add	3,989.64	
			For Epoxy Resin, Add	470.21	
			For Up To >10, Add	3,634.12	
			For >10 To 25, Add	2,078.52	
			For >25 To 50, Add	1,532.09	
			For >50 To 100, Add	766.04	
			For >500 To 1,000, Deduct	-304.58	
			For >1,000 To 2,000, Deduct	-460.14	
			For >2,000 To 5,000, Deduct	-749.30	
			For >5,000, Deduct	-1,244.48	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,297.07	
For Vinlyester Resin, Add	4,214.61	
For Epoxy Resin, Add	496.72	
For Up To >10, Add	3,839.04	
For >10 To 25, Add	2,195.72	
For >25 To 50, Add	1,618.47	
For >50 To 100, Add	809.24	
For >500 To 1,000, Deduct	-321.76	
For >1,000 To 2,000, Deduct	-486.09	
For >2,000 To 5,000, Deduct	-791.55	
For >5,000, Deduct	-1,314.65	
33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,633.18	
For Vinlyester Resin, Add	4,439.58	
For Epoxy Resin, Add	523.24	
For Up To >10, Add	4,043.92	
For >10 To 25, Add	2,312.89	
For >25 To 50, Add	1,704.85	
For >50 To 100, Add	852.42	
For >500 To 1,000, Deduct	-338.93	
For >1,000 To 2,000, Deduct	-512.04	
For >2,000 To 5,000, Deduct	-833.80	
For >5,000, Deduct	-1,384.82	
33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0324 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,684.88	
For Vinlyester Resin, Add	1,802.10	
For Epoxy Resin, Add	212.39	
For Up To >10, Add	1,618.57	
For >10 To 25, Add	919.73	
For >25 To 50, Add	680.56	
For >50 To 100, Add	340.28	
For >500 To 1,000, Deduct	-137.01	
For >1,000 To 2,000, Deduct	-206.89	
For >2,000 To 5,000, Deduct	-336.54	
For >5,000, Deduct	-559.07	
33 01 30 72-0325 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,032.49	
For Vinlyester Resin, Add	2,035.41	
For Epoxy Resin, Add	239.89	
For Up To >10, Add	1,828.15	
For >10 To 25, Add	1,038.83	
For >25 To 50, Add	768.69	
For >50 To 100, Add	384.34	
For >500 To 1,000, Deduct	-154.74	
For >1,000 To 2,000, Deduct	-233.67	
For >2,000 To 5,000, Deduct	-380.12	
For >5,000, Deduct	-631.45	
33 01 30 72-0326 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,380.09	
For Vinlyester Resin, Add	2,268.71	
For Epoxy Resin, Add	267.38	
For Up To >10, Add	2,037.75	
For >10 To 25, Add	1,157.95	
For >25 To 50, Add	856.82	
For >50 To 100, Add	428.41	
For >500 To 1,000, Deduct	-172.48	
For >1,000 To 2,000, Deduct	-260.46	
For >2,000 To 5,000, Deduct	-423.69	
For >5,000, Deduct	-703.83	
33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,735.41	
For Vinlyester Resin, Add	2,502.00	
For Epoxy Resin, Add	294.88	
For Up To >10, Add	2,270.51	
For >10 To 25, Add	1,296.37	
For >25 To 50, Add	956.54	
For >50 To 100, Add	478.27	
For >500 To 1,000, Deduct	-190.80	
For >1,000 To 2,000, Deduct	-288.21	
For >2,000 To 5,000, Deduct	-469.19	
For >5,000, Deduct	-779.31	
33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,083.71	
For Vinlyester Resin, Add	2,735.31	
For Epoxy Resin, Add	322.38	
For Up To >10, Add	2,482.18	
For >10 To 25, Add	1,417.22	
For >25 To 50, Add	1,045.71	
For >50 To 100, Add	522.86	
For >500 To 1,000, Deduct	-208.59	
For >1,000 To 2,000, Deduct	-315.08	
For >2,000 To 5,000, Deduct	-512.94	
For >5,000, Deduct	-851.97	



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 01 30 72-0329	LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,432.02		
	For Vinlyester Resin, Add	2,968.61		
	For Epoxy Resin, Add	349.87		
	For Up To >10, Add	2,693.89		
	For >10 To 25, Add	1,538.09		
	For >25 To 50, Add	1,134.90		
	For >50 To 100, Add	567.45		
	For >500 To 1,000, Deduct	-226.38		
	For >1,000 To 2,000, Deduct	-341.96		
	For >2,000 To 5,000, Deduct	-556.69		
	For >5,000, Deduct	-924.63		
33 01 30 72-0330	LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,780.32		
	For Vinlyester Resin, Add	3,201.91		
	For Epoxy Resin, Add	377.37		
	For Up To >10, Add	2,905.59		
	For >10 To 25, Add	1,658.96		
	For >25 To 50, Add	1,224.09		
	For >50 To 100, Add	612.04		
	For >500 To 1,000, Deduct	-244.17		
	For >1,000 To 2,000, Deduct	-368.83		
	For >2,000 To 5,000, Deduct	-600.44		
	For >5,000, Deduct	-997.30		
33 01 30 72-0331	LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,128.62		
	For Vinlyester Resin, Add	3,435.21		
	For Epoxy Resin, Add	404.86		
	For Up To >10, Add	3,117.26		
	For >10 To 25, Add	1,779.81		
	For >25 To 50, Add	1,313.26		
	For >50 To 100, Add	656.63		
	For >500 To 1,000, Deduct	-261.96		
	For >1,000 To 2,000, Deduct	-395.71		
	For >2,000 To 5,000, Deduct	-644.19		
	For >5,000, Deduct	-1,069.96		
33 01 30 72-0332	LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,476.92		
	For Vinlyester Resin, Add	3,668.50		
	For Epoxy Resin, Add	432.36		
	For Up To >10, Add	3,328.96		
	For >10 To 25, Add	1,900.68		
	For >25 To 50, Add	1,402.44		
	For >50 To 100, Add	701.22		
	For >500 To 1,000, Deduct	-279.75		
	For >1,000 To 2,000, Deduct	-422.58		
	For >2,000 To 5,000, Deduct	-687.94		
	For >5,000, Deduct	-1,142.62		
33 01 30 72-0333	LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,825.22		
	For Vinlyester Resin, Add	3,901.81		
	For Epoxy Resin, Add	459.86		
	For Up To >10, Add	3,540.64		
	For >10 To 25, Add	2,021.53		
	For >25 To 50, Add	1,491.62		
	For >50 To 100, Add	745.81		
	For >500 To 1,000, Deduct	-297.54		
	For >1,000 To 2,000, Deduct	-449.45		
	For >2,000 To 5,000, Deduct	-731.68		
	For >5,000, Deduct	-1,215.29		
33 01 30 72-0334	LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,173.54		
	For Vinlyester Resin, Add	4,135.11		
	For Epoxy Resin, Add	487.35		
	For Up To >10, Add	3,752.37		
	For >10 To 25, Add	2,142.43		
	For >25 To 50, Add	1,580.82		
	For >50 To 100, Add	790.41		
	For >500 To 1,000, Deduct	-315.33		
	For >1,000 To 2,000, Deduct	-476.33		
	For >2,000 To 5,000, Deduct	-775.44		
	For >5,000, Deduct	-1,287.96		
33 01 30 72-0335	LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,521.83		
	For Vinlyester Resin, Add	4,368.41		
	For Epoxy Resin, Add	514.85		
	For Up To >10, Add	3,964.04		
	For >10 To 25, Add	2,263.27		
	For >25 To 50, Add	1,669.99		
	For >50 To 100, Add	835.00		
	For >500 To 1,000, Deduct	-333.12		
	For >1,000 To 2,000, Deduct	-503.20		
	For >2,000 To 5,000, Deduct	-819.18		
	For >5,000, Deduct	-1,360.62		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	6,870.14	
For Vinylester Resin, Add	4,601.71	
For Epoxy Resin, Add	542.34	
For Up To >10, Add	4,175.75	
For >10 To 25, Add	2,384.14	
For >25 To 50, Add	1,759.18	
For >50 To 100, Add	879.59	
For >500 To 1,000, Deduct	-350.91	
For >1,000 To 2,000, Deduct	-530.07	
For >2,000 To 5,000, Deduct	-862.93	
For >5,000, Deduct	-1,433.28	
33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	578.52	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....	625.42	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....	664.52	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....	703.60	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....	742.69	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....	618.76	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder.....	710.04	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder.....	801.34	
33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	673.70	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	728.64	
33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner.....	820.41	
33 01 30 74-0018 EA 6" Lateral T-Liner.....	919.74	
33 01 30 74-0019 EA 8" Lateral T-Liner.....	1,069.19	
33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP).....	44.03	
For 7.5mm, Add	5.20	
For 9 mm, Add	10.29	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP).....	53.02	
For 7.5mm, Add	7.09	
For 9 mm, Add	14.02	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP).....	69.95	
For 7.5mm, Add	10.85	
For 9 mm, Add	21.46	
33 01 30 74-0025 Lining Manhole Drop (33 01 30 74-0020)		
33 01 30 74-0026 EA Manhole Drop Section Lining.....	891.50	
33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)		
33 01 30 79-0001 Form and Fold Relining Underground Pipelines (33 01 30 79)		
Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)		
33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	5,613.78	
33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines.....	2,245.52	
33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5.....	38.68	
For DR 26 Pipe Liner, Add	6.66	
For Up To 75, Add	23.38	
For >75 To 150, Add	11.69	
For >500 To 1,000, Deduct	-0.90	
For >1,000 To 2,000, Deduct	-1.80	
For >2,000, Deduct	-3.61	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	49.16	
For DR 26 Pipe Liner, Add	9.05	
For DR 35 Pipe Liner, Deduct	-4.53	
For Up To 75, Add	26.68	
For >75 To 150, Add	13.34	
For >500 To 1,000, Deduct	-0.97	
For >1,000 To 2,000, Deduct	-1.94	
For >2,000, Deduct	-3.89	
33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	50.90	
For DR 26 Pipe Liner, Add	9.22	
For DR 35 Pipe Liner, Deduct	-4.61	
For Up To 75, Add	28.42	
For >75 To 150, Add	14.21	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-2.10	
For >2,000, Deduct	-4.21	
33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	70.61	
For DR 26 Pipe Liner, Add	13.83	
For DR 35 Pipe Liner, Deduct	-6.91	
For DR 41 Pipe Liner, Deduct	-13.83	
For Up To 75, Add	34.03	
For >75 To 150, Add	17.01	
For >500 To 1,000, Deduct	-1.15	
For >1,000 To 2,000, Deduct	-2.30	
For >2,000, Deduct	-4.59	
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	97.79	
For DR 26 Pipe Liner, Add	20.24	
For DR 35 Pipe Liner, Deduct	-10.12	
For DR 41 Pipe Liner, Deduct	-20.24	
For Up To 75, Add	41.46	
For >75 To 150, Add	20.73	
For >500 To 1,000, Deduct	-1.26	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000, Deduct	-5.06	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	133.09	
For DR 35 Pipe Liner, Deduct	-14.24	
For DR 41 Pipe Liner, Deduct	-28.49	
For Up To 75, Add	51.50	
For >75 To 150, Add	25.75	
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 2,000, Deduct	-2.87	
For >2,000, Deduct	-5.74	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	186.83	
For DR 41 Pipe Liner, Deduct	-16.52	
For DR 50 Pipe Liner, Deduct	-33.05	
For Up To 75, Add	65.45	
For >75 To 150, Add	32.72	
For >500 To 1,000, Deduct	-1.62	
For >1,000 To 2,000, Deduct	-3.24	
For >2,000, Deduct	-6.48	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	211.08	
For DR 50 Pipe Liner, Deduct	-28.15	
For DR 55 Pipe Liner, Deduct	-46.92	
For Up To 75, Add	72.62	
For >75 To 150, Add	36.31	
For >500 To 1,000, Deduct	-1.75	
For >1,000 To 2,000, Deduct	-3.51	
For >2,000, Deduct	-7.02	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	256.78	
For DR 60 Pipe Liner, Deduct	-34.69	
For Up To 75, Add	84.53	
For >75 To 150, Add	42.27	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,000, Deduct	-3.83	
For >2,000, Deduct	-7.66	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)		
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	41.19	
For DR 26 Pipe Liner, Add	7.29	
For Up To 75, Add	23.88	
For >75 To 150, Add	11.94	
For >500 To 1,000, Deduct	-0.90	
For >1,000 To 2,000, Deduct	-1.80	
For >2,000, Deduct	-3.61	
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	49.16	
For DR 26 Pipe Liner, Add	9.05	
For DR 35 Pipe Liner, Deduct	-4.53	
For Up To 75, Add	26.68	
For >75 To 150, Add	13.34	
For >500 To 1,000, Deduct	-0.97	
For >1,000 To 2,000, Deduct	-1.94	
For >2,000, Deduct	-3.89	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	54.25	
For DR 26 Pipe Liner, Add	10.06	
For DR 35 Pipe Liner, Deduct	-5.03	
For Up To 75, Add	29.09	
For >75 To 150, Add	14.54	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-2.10	
For >2,000, Deduct	-4.21	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	75.64	
For DR 26 Pipe Liner, Add	15.08	
For DR 35 Pipe Liner, Deduct	-7.54	
For DR 41 Pipe Liner, Deduct	-15.08	
For Up To 75, Add	35.03	
For >75 To 150, Add	17.52	
For >500 To 1,000, Deduct	-1.15	
For >1,000 To 2,000, Deduct	-2.30	
For >2,000, Deduct	-4.59	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	105.33	
For DR 26 Pipe Liner, Add	22.12	
For DR 35 Pipe Liner, Deduct	-11.06	
For DR 41 Pipe Liner, Deduct	-22.12	
For Up To 75, Add	42.97	
For >75 To 150, Add	21.49	
For >500 To 1,000, Deduct	-1.26	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000, Deduct	-5.06	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	143.82	
For DR 35 Pipe Liner, Deduct	-15.59	
For DR 41 Pipe Liner, Deduct	-31.17	
For Up To 75, Add	53.65	
For >75 To 150, Add	26.82	
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 2,000, Deduct	-2.87	
For >2,000, Deduct	-5.74	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	202.59	
For DR 41 Pipe Liner, Deduct	-18.10	
For DR 50 Pipe Liner, Deduct	-36.20	
For Up To 75, Add	68.60	
For >75 To 150, Add	34.30	
For >500 To 1,000, Deduct	-1.62	
For >1,000 To 2,000, Deduct	-3.24	
For >2,000, Deduct	-6.48	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	228.51	
For DR 50 Pipe Liner, Deduct	-30.77	
For DR 55 Pipe Liner, Deduct	-51.28	
For Up To 75, Add	76.11	
For >75 To 150, Add	38.05	
For >500 To 1,000, Deduct	-1.75	
For >1,000 To 2,000, Deduct	-3.51	
For >2,000, Deduct	-7.02	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	278.90	
For DR 60 Pipe Liner, Deduct	-38.01	
For Up To 75, Add	88.96	
For >75 To 150, Add	44.48	
For >500 To 1,000, Deduct	-1.91	
For >1,000 To 2,000, Deduct	-3.83	
For >2,000, Deduct	-7.66	

33 01 30 81 Manhole Rehabilitation (33 01 30)**33 01 30 81-0001 Restoration And Rehabilitation Of Manholes** (33 01 30 81)

Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)

33 01 30 81-0003 EA Inspect Manhole 203.40

33 01 30 81-0004 EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System 15,353.71

Note: For internal inspection and repair of water mains.

33 01 30 81-0005 EA Installation And Maintenance Of Ventilation System, 60" to 108" diameter to 2,600' 21,760.87

Note: For internal inspection and repair of water mains

33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)**33 01 30 81-0007 Internal Manhole Chimney Seals** (33 01 30 81-0006)

Note: Cretex.

33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....593.86

33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....625.95

33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....642.00

33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....738.29

33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....834.61

33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....930.90

33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....1,123.50



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006)				
Note: Wrapidseal.				
33 01 30 81-0016	EA	24" External Manhole Encapsulation	866.71	
33 01 30 81-0017	EA	30" External Manhole Encapsulation	914.85	
33 01 30 81-0018	EA	36" External Manhole Encapsulation	979.05	
33 01 30 81-0019	EA	42" External Manhole Encapsulation	1,059.30	
33 01 30 81-0020	EA	48" External Manhole Encapsulation	1,171.65	
33 01 30 81-0021	EA	54" External Manhole Encapsulation	1,300.05	
33 01 30 81-0022	EA	60" External Manhole Encapsulation	1,460.55	
33 01 30 81-0023 Manhole Crack Repair (33 01 30 81-0001)				
Note: Includes removing loose materials and cleaning.				
33 01 30 81-0024	LF	Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair	59.16	
33 01 30 81-0025	LF	>1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair	79.70	
33 01 30 81-0026	LF	Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair	55.58	
33 01 30 81-0027	LF	>1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair	75.41	
33 01 30 81-0028 Manhole Patching (33 01 30 81-0001)				
Note: Includes removing loose materials and cleaning.				
33 01 30 81-0029	SF	Up To 1/4" Thick, Cementitious Grout, Manhole Patching	19.20	
33 01 30 81-0030	SF	Up To 1/4" Thick, Epoxy Grout, Manhole Patching	43.18	
33 01 30 81-0031 Manhole Joint Restoration (33 01 30 81-0001)				
Note: Includes drilling holes at joints, fill joints with grout.				
33 01 30 81-0032	EA	3' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,492.07	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			241.68	
33 01 30 81-0033	EA	3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole	2,909.18	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			269.47	
33 01 30 81-0034	EA	4' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,322.76	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			297.25	
33 01 30 81-0035	EA	5' Diameter Joint Restoration, Grout Fill Per Each Manhole	3,946.86	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			311.14	
33 01 30 81-0036	EA	6' Diameter Joint Restoration, Grout Fill Per Each Manhole	4,569.19	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.				
For Grouting Each Additional Manhole Joint Section, Add			325.03	
33 01 30 81-0037 Step Installation In Existing Manholes (33 01 30 81-0001)				
Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.				
33 01 30 81-0038	EA	Drill And Grout 7" x 9" Cast Iron Manhole Steps	130.93	23.63
33 01 30 81-0039	EA	Drill And Grout 8" x 9" Cast Iron Manhole Steps	141.14	23.63
33 01 30 81-0040	EA	Drill And Grout Galvanized Steel Manhole Step	121.57	23.63
33 01 30 81-0041	EA	Bolt On Galvanized Steel Manhole Step	143.59	23.63
33 01 30 81-0042	EA	Drill And Grout Aluminum Manhole Step	149.19	23.63
33 01 30 81-0043	EA	Drill And Insert Polypropylene Manhole Step	73.26	18.90
33 01 30 81-0044 Invert Restoration (33 01 30 81-0001)				
Note: Includes removal of existing defective material and installation of new material.				
33 01 30 81-0045 Concrete Invert Restoration (33 01 30 81-0044)				
33 01 30 81-0046	EA	2' Diameter, Concrete Invert Restoration	398.86	
33 01 30 81-0047	EA	3' Diameter, Concrete Invert Restoration	449.71	
33 01 30 81-0048	EA	4' Diameter, Concrete Invert Restoration	500.56	
33 01 30 81-0049	EA	5' Diameter, Concrete Invert Restoration	551.41	
33 01 30 81-0050	EA	6' Diameter, Concrete Invert Restoration	703.97	
33 01 30 81-0051	SF	Square Or Rectangular, Concrete Invert Restoration	39.80	
33 01 30 81-0052 Brick Invert Restoration (33 01 30 81-0044)				
33 01 30 81-0053	EA	2' Diameter, Brick Invert Restoration	662.00	
33 01 30 81-0054	EA	3' Diameter, Brick Invert Restoration	712.85	
33 01 30 81-0055	EA	4' Diameter, Brick Invert Restoration	763.70	
33 01 30 81-0056	EA	5' Diameter, Brick Invert Restoration	814.55	
33 01 30 81-0057	EA	6' Diameter, Brick Invert Restoration	865.40	
33 01 30 81-0058	SF	Square Or Rectangular, Brick Invert Restoration	56.01	
33 01 30 81-0059 Repair In-Kind Of Drainage Structures (33 01 30 81)				
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.				
33 01 30 81-0060	VLF	2' Diameter, Repair In-Kind Drainage Structure	853.50	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0061 VLF 3' Diameter, Repair In-Kind Drainage Structure.....	1,280.25	
33 01 30 81-0062 VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,707.12	
33 01 30 81-0063 VLF 5' Diameter, Repair In-Kind Drainage Structure.....	2,133.75	
33 01 30 81-0064 VLF 6' Diameter, Repair In-Kind Drainage Structure.....	2,560.51	
33 01 30 81-0065 VLF 2' x 2', Repair In-Kind Drainage Structure.....	1,087.26	
33 01 30 81-0066 VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,359.08	
33 01 30 81-0067 VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,630.90	
33 01 30 81-0068 VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,902.71	
33 01 30 81-0069 VLF 4' x 4', Repair In-Kind Drainage Structure.....	2,174.53	
33 01 30 81-0070 VLF 4' x 5', Repair In-Kind Drainage Structure.....	2,446.35	
33 01 30 81-0071 VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,718.16	
33 01 30 81-0072 VLF 4' x 8', Repair In-Kind Drainage Structure.....	3,261.79	
33 01 30 81-0073 VLF >32 GSF, Repair In-Kind Drainage Structure.....	3,805.43	

33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)**33 01 30 82-0001 Epoxy Manhole Restoration, Interior (33 01 30 82)**

33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	375.79	
For 80 Mil Material, Add	44.53	
For 100 Mil Material, Add	89.05	
For 125 Mil Material, Add	138.85	
For 150 Mil Material, Add	188.65	
For 200 Mil Material, Add	272.62	
For 2 To 5 Manholes, Deduct	-26.60	
For 6 To 10 Manholes, Deduct	-43.81	
For >10 Manholes, Deduct	-87.62	
33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior	455.86	
For 80 Mil Material, Add	53.27	
For 100 Mil Material, Add	106.54	
For 125 Mil Material, Add	165.97	
For 150 Mil Material, Add	225.40	
For 200 Mil Material, Add	325.16	
For 2 To 5 Manholes, Deduct	-32.34	
For 6 To 10 Manholes, Deduct	-53.29	
For >10 Manholes, Deduct	-106.58	
33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	501.05	
For 80 Mil Material, Add	59.37	
For 100 Mil Material, Add	118.73	
For 125 Mil Material, Add	185.13	
For 150 Mil Material, Add	251.52	
For 200 Mil Material, Add	363.48	
For 2 To 5 Manholes, Deduct	-35.47	
For 6 To 10 Manholes, Deduct	-58.41	
For >10 Manholes, Deduct	-116.83	
33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	626.39	
For 80 Mil Material, Add	74.23	
For 100 Mil Material, Add	148.47	
For 125 Mil Material, Add	231.49	
For 150 Mil Material, Add	314.52	
For 200 Mil Material, Add	454.52	
For 2 To 5 Manholes, Deduct	-44.34	
For 6 To 10 Manholes, Deduct	-73.02	
For >10 Manholes, Deduct	-146.05	
33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	751.65	
For 80 Mil Material, Add	89.07	
For 100 Mil Material, Add	178.15	
For 125 Mil Material, Add	277.77	
For 150 Mil Material, Add	377.39	
For 200 Mil Material, Add	545.38	
For 2 To 5 Manholes, Deduct	-53.21	
For 6 To 10 Manholes, Deduct	-87.63	
For >10 Manholes, Deduct	-175.25	

33 01 30 83 Lining for Concrete Manholes (33 01 30)**33 01 30 83-0001 Manhole Lining (33 01 30 83)**

Note: Includes power washing and cleaning of manhole interiors.

33 01 30 83-0002 Cementitious Manhole Restoration, Interior (33 01 30 83-0001)

33 01 30 83-0003 VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior	160.48	
For Each Additional 1/2" Thick Material, Add	38.86	
For 2 To 5 Manholes, Deduct	-11.32	
For 6 To 10 Manholes, Deduct	-18.63	
For >10 Manholes, Deduct	-37.27	
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	186.07	
For Each Additional 1/2" Thick Material, Add	45.23	
For 2 To 5 Manholes, Deduct	-13.12	
For 6 To 10 Manholes, Deduct	-21.59	
For >10 Manholes, Deduct	-43.19	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior	211.66	
For Each Additional 1/2" Thick Material, Add	51.59	
For 2 To 5 Manholes, Deduct	-14.92	
For 6 To 10 Manholes, Deduct	-24.56	
For >10 Manholes, Deduct	-49.11	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior..... For Each Additional 1/2" Thick Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	249.18 63.13 -17.49 -28.76 -57.52	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior..... For Each Additional 1/2" Thick Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	272.35 72.88 -19.00 -31.19 -62.38	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior For 80 Mil Material, Add For 100 Mil Material, Add For 125 Mil Material, Add For 150 Mil Material, Add For 200 Mil Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	334.62 30.80 61.61 94.25 126.89 176.56 -24.54 -40.72 -81.45	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior..... For 80 Mil Material, Add For 100 Mil Material, Add For 125 Mil Material, Add For 150 Mil Material, Add For 200 Mil Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	407.76 37.24 74.48 113.87 153.25 212.93 -29.94 -49.68 -99.36	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior For 80 Mil Material, Add For 100 Mil Material, Add For 125 Mil Material, Add For 150 Mil Material, Add For 200 Mil Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	446.16 41.07 82.14 125.66 169.19 235.40 -32.73 -54.30 -108.60	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior For 80 Mil Material, Add For 100 Mil Material, Add For 125 Mil Material, Add For 150 Mil Material, Add For 200 Mil Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	557.70 51.34 102.67 157.08 211.48 294.25 -40.91 -67.87 -135.74	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior For 80 Mil Material, Add For 100 Mil Material, Add For 125 Mil Material, Add For 150 Mil Material, Add For 200 Mil Material, Add For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	669.24 61.60 123.21 188.49 253.78 353.09 -49.09 -81.45 -162.89	
33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	586.03 -34.04 -53.43 -106.85	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	717.69 -41.67 -65.41 -130.81	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	845.85 -48.61 -76.07 -152.14	
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	1,060.75 -60.93 -95.34 -190.69	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	1,275.67 -73.26 -114.62 -229.24	
33 01 30 86 Manhole Rim Adjustment (33 01 30)		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 86-0001	Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86) Note: Excludes asphalt See CSI section 02 41 13 13-0036 for breakup and removal of pavement, 02 41 19 13-0057 for sawcutting pavement if required, 32 12 16 13-0022 for hand placed hot mix asphalt.		
33 01 30 86-0002	Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003	EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	562.66 95.61	
33 01 30 86-0004	EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	627.50 101.65	
33 01 30 86-0005	EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	687.30 108.08	
33 01 30 86-0006	EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	754.44 114.88	
33 01 30 86-0007	EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	811.46 122.44	
33 01 30 86-0008	Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009	EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	661.29 100.52	
33 01 30 86-0010	EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	717.98 106.95	
33 01 30 86-0011	EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	788.22 113.75	
33 01 30 86-0012	EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	857.64 121.30	
33 01 30 86-0013	EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	923.98 128.87	
33 01 30 86-0014	Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers (33 01 30 86-0001)		
33 01 30 86-0015	EA Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	768.61 125.09	
33 01 30 86-0016	EA >4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	811.27 131.13	
33 01 30 86-0017	EA >5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers..... For Lowering Manhole Rim, Add Note: Includes digging under manhole rim	858.52 138.69	
33 01 30 86-0018	>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0019	EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	928.97	
33 01 30 86-0020	EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,007.23	
33 01 30 86-0021	EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,086.63	
33 01 30 86-0022	EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,152.81	
33 01 30 86-0023	EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	1,249.20	
33 01 30 86-0024	EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,337.43	
33 01 30 86-0025	EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,425.98	
33 01 30 86-0026	EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	1,516.83	
33 01 30 86-0027	>12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0028	Precast Concrete Manhole Riser (33 01 30 86-0027)		
33 01 30 86-0029	VLF Up To 26" Diameter Precast Concrete Manhole Riser.....	117.28	
33 01 30 86-0030	VLF >26" To 36" Diameter Precast Concrete Manhole Riser.....	140.21	
33 01 30 86-0031	VLF >36" To 48" Diameter Precast Concrete Manhole Riser.....	196.02	
33 01 30 86-0032	VLF >48" To 60" Diameter Precast Concrete Manhole Riser.....	400.26	
33 01 30 86-0033	VLF >60" To 72" Diameter Precast Concrete Manhole Riser.....	586.21	

33 01 30 89 By-Pass Piping and Pumping of Water and Sewer Utilities (33 01 30)

33 01 30 89-0001	Set-Up By-Pass Pumping Unit (33 01 30 89) Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1086 for pump rental, 01 22 23 00-1119 for suction hose, 01 22 23 00-1138 for discharge hose.		



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 01 30 89-0002	EA	Set-up By-Pass Pumping Unit	2,110.82		
33 01 30 89-0003	EA	Re-Set Up/Move By-Pass Pumping Unit	1,055.41		
33 01 30 89-0004		By-Pass Pumping (33 01 30 89)			
		Note: Excludes pump rental. See CSI section 01 22 23 00-1086 for pump rental.			
33 01 30 89-0005	DAY	Maintain And Operate By-Pass Pumping Unit	527.71		
33 01 30 89-0006	WK	Maintain And Operate By-Pass Pumping Unit	2,638.53		
33 01 30 89-0007	MO	Maintain And Operate By-Pass Pumping Unit	11,081.81		
33 01 30 89-0008		Temporary Bypass And Service Lines (33 01 30 89)			
		Note: Laid on ground, includes fittings and connections. Remove after use.			
33 01 30 89-0009		Temporary Water Service Lines (33 01 30 89-0008)			
		Note: Laid on ground, includes fittings, connection to building water service, and chlorination prior to each use. Remove after use.			
33 01 30 89-0010	LF	1/2" Temporary Service Hose With Fittings	3.24		
		Note: Includes removal after use.			
33 01 30 89-0011	LF	3/4" Temporary Service Hose With Fittings	4.11		
		Note: Includes removal after use.			
33 01 30 89-0012	LF	1" Temporary Service Hose With Fittings	4.76		
		Note: Includes removal after use.			
33 01 30 89-0013	LF	1-1/2" Temporary Service Hose With Fittings	5.68		
		Note: Includes removal after use.			
33 01 30 89-0014	LF	2" Temporary Service Hose With Fittings	6.97		
		Note: Includes removal after use.			
33 01 30 89-0015	EA	Temporary Service Valve Assembly At Fire Hydrant	359.49		
		Note: Includes removal after use.			
33 01 30 89-0016		Temporary Bypass Water Main Lines (33 01 30 89-0008)			
		Note: Laid on ground, includes fittings, connections to mains and chlorination prior to each use. Remove after use.			
33 01 30 89-0017	LF	2" Temporary Bypass Water Main Pipe With Fittings	7.43		
		Note: Includes removal after use.			
		For >500 To 1,000, Deduct	-0.50		
		For >1,000 To 5,000, Deduct	-1.00		
		For >5,000, Deduct	-1.66		
33 01 30 89-0018	LF	4" Temporary Bypass Water Main Pipe With Fittings	12.05		
		Note: Includes removal after use.			
		For >500 To 1,000, Deduct	-0.64		
		For >1,000 To 5,000, Deduct	-1.28		
		For >5,000, Deduct	-2.14		
33 01 30 89-0019	LF	6" Temporary Bypass Water Main Pipe With Fittings	17.19		
		Note: Includes removal after use.			
		For >500 To 1,000, Deduct	-0.75		
		For >1,000 To 5,000, Deduct	-1.50		
		For >5,000, Deduct	-2.50		
33 01 30 89-0020	LF	8" Temporary Bypass Water Main Pipe With Fittings	21.70		
		Note: Includes removal after use.			
		For >500 To 1,000, Deduct	-0.90		
		For >1,000 To 5,000, Deduct	-1.80		
		For >5,000, Deduct	-3.00		
33 01 30 89-0021		Piping Protection For Temporary Water Line (33 01 30 89-0008)			
33 01 30 89-0022	LF	Cold Mix For Temporary Pipe	3.44		
		Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.			
33 01 30 89-0023		Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)			
33 01 30 89-0024	EA	Drill Meter Cover For Temporary Bypass Pipe	18.00		
33 01 30 89-0025		Temporary By-Pass Plug (33 01 30 89)			
33 01 30 89-0026	EA	8" To 16" Temporary By-Pass Plug	867.83		
33 01 30 89-0027	EA	12" To 24" Temporary By-Pass Plug	1,359.37		
33 01 30 89-0028	EA	15" To 30" Temporary By-Pass Plug	2,222.55		
33 01 30 89-0029	EA	20" To 40" Temporary By-Pass Plug	2,729.08		
33 01 30 89-0030	EA	24" To 28" Temporary By-Pass Plug	3,659.46		
33 01 34		Operation and Maintenance of Onsite Wastewater Disposal Systems (33 01)			
33 01 34 13		Septic Tank Solids Removal (33 01 34)			
33 01 34 13-0001		Pump Out Septic Tanks (33 01 34 13)			
33 01 34 13-0002	GAL	Pump Out Septic Tank And Dispose	0.72		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 40 Operation and Maintenance of Stormwater Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 40 Operation and Maintenance of Stormwater Utilities (33 01)

33 01 40 00-0001	Solid Wall High-Density Polyethylene (HDPE) Culvert Slip-Lining System (33 01 40) Note: Snap-Tite slip-lining system. Excludes culvert cleaning and grouting. See CSI section 33 01 30 41-0024 for culvert cleaning, 33 01 40 00-0046 for flowable fill grout.	
33 01 40 00-0002	LF 6.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	37.71 -6.43
33 01 40 00-0003	LF 8.625" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	57.31 -10.06
33 01 40 00-0004	LF 10.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	52.78 -8.93
33 01 40 00-0005	LF 12.75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	70.21 -12.06
33 01 40 00-0006	LF 14" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	79.77 -13.51
33 01 40 00-0007	LF 16" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	97.17 -16.83
33 01 40 00-0008	LF 18" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	122.19 -21.18
33 01 40 00-0009	LF 20" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	150.73 -26.42
33 01 40 00-0010	LF 22" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	174.19 -30.65
33 01 40 00-0011	LF 24" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	199.74 -35.29
33 01 40 00-0012	LF 26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	228.54 -40.59
33 01 40 00-0013	LF 28" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	258.37 -46.09
33 01 40 00-0014	LF 30" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	300.50 -54.05
33 01 40 00-0015	LF 32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	344.74 -62.43
33 01 40 00-0016	LF 34" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	381.70 -69.36
33 01 40 00-0017	LF 36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	418.64 -76.28
33 01 40 00-0018	LF 39.37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	480.31 -88.15
33 01 40 00-0019	LF 42" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	541.97 -100.02
33 01 40 00-0020	LF 48" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	702.95 -131.75
33 01 40 00-0021	LF 54" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	861.83 -163.06
33 01 40 00-0022	LF 57" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	956.44 -181.51
33 01 40 00-0023	LF 60" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,050.14 -199.79
33 01 40 00-0024	LF 63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,145.66 -218.43
33 01 40 00-0025	LF 66" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,288.07 -246.21
33 01 40 00-0026	LF 72" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,367.06 -261.08
33 01 40 00-0027	LF 78" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,452.42 -276.99
33 01 40 00-0028	LF 84" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,577.10 -300.99
33 01 40 00-0029	LF 90" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,612.54 -307.15
33 01 40 00-0030	LF 96" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner DR 32.5 For Profile Wall (Corrugated), Deduct	1,631.74 -309.83
33 01 40 00-0031	LF 16.5 x 23" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	201.52 -35.60
33 01 40 00-0032	LF 17" x 26" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	224.97 -39.42
33 01 40 00-0033	LF 18" x 29" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	248.40 -50.65
33 01 40 00-0034	LF 19" x 32" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	287.28 -50.65
33 01 40 00-0035	LF 21" x 33.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	315.26 -55.62
33 01 40 00-0036	LF 22.5 x 36" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	354.35 -62.82
33 01 40 00-0037	LF 26" x 37" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	395.66 -70.47
33 01 40 00-0038	LF 30" x 41" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert For Profile Wall (Corrugated), Deduct	475.35 -85.17
33 01 40 00-0039	LF 31" x 46" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert	535.46



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Stormwater Utilities		33 01 40	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 40 00-0040	LF	34" x 48.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	594.49	
		<i>For Profile Wall (Corrugated), Deduct</i>	-107.76	
33 01 40 00-0041	LF	39" x 55.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	741.12	
		<i>For Profile Wall (Corrugated), Deduct</i>	-136.46	
33 01 40 00-0042	LF	43" x 63" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	894.23	
		<i>For Profile Wall (Corrugated), Deduct</i>	-166.47	
33 01 40 00-0043	LF	48" x 75" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,153.05	
		<i>For Profile Wall (Corrugated), Deduct</i>	-218.23	
33 01 40 00-0044	LF	52" x 72.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,162.33	
		<i>For Profile Wall (Corrugated), Deduct</i>	-218.23	
33 01 40 00-0045	LF	58" x 67.5" Outside Diameter High-Density Polyethylene (HDPE) Culvert Liner For Elliptical, Arched Or Oval Culvert.....	1,162.33	
		<i>For Profile Wall (Corrugated), Deduct</i>	-218.23	
33 01 40 00-0046		Pumped Grouting For Slip-Lining Systems (33 01 40) Note: Includes all materials, embedded piping, forms, labor and pumping equipment necessary to place and install grout.		
33 01 40 00-0047	CY	Flowable Fill Grout, For Pipe Relines	641.07	

33 01 70 Operation and Maintenance of Electrical Utilities (33 01)

33 01 70 51 Electrical Utility Visual Inspection (33 01 70)

33 01 70 51-0001		Video Camera Inspection Of Gas Piping and Electrical Duct (33 01 70 51)		
33 01 70 51-0002		Video Camera Set-up (33 01 70 51-0001)		
33 01 70 51-0003	EA	Up To 12" Diameter, Initial Set Up For Video Inspection, Gas Pipe Or Electrical Duct.....	289.18	
33 01 70 51-0004	EA	>12" To 48" Diameter, Initial Set Up For Video Inspection, Gas Pipe.....	325.32	
33 01 70 51-0005	EA	Up To 12" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe Or Electrical Duct.....	72.29	
33 01 70 51-0006	EA	>12" To 48" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe.....	108.44	

33 01 70 51-0007 Video Camera Inspection Of Gas Pipe Or Electrical Duct (33 01 70 51-0001)

33 01 70 51-0008	LF	Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct	1.12	
		<i>For >1,000 To 5,000, Deduct</i>	-0.06	
		<i>For >5,000, Deduct</i>	-0.11	
33 01 70 51-0009	LF	>12" To 48" Diameter, Video Inspection, Gas Pipe	1.72	
		<i>For >1,000 To 5,000, Deduct</i>	-0.09	
		<i>For >5,000, Deduct</i>	-0.17	

33 01 70 72 Cured-in-Place Conduit Lining (33 01 70)

33 01 70 72-0001 Lining Conduit With Cured In-Place (CIP) Liner (33 01 70 72)

Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection and cleaning.

33 01 70 72-0002 2mm Thick Cured In-Place Conduit Lining (33 01 70 72-0001)

33 01 70 72-0003	LF	1-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	8.26	
		<i>For Up To >10, Add</i>	15.38	
		<i>For >10 To 25, Add</i>	12.19	
		<i>For >25 To 50, Add</i>	7.50	
		<i>For >50 To 100, Add</i>	3.75	
		<i>For >500 To 1,000, Deduct</i>	-0.53	
		<i>For >1,000 To 2,000, Deduct</i>	-0.84	
		<i>For >2,000 To 5,000, Deduct</i>	-1.58	
		<i>For >5,000, Deduct</i>	-2.55	
33 01 70 72-0004	LF	2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	10.13	
		<i>For Up To >10, Add</i>	17.69	
		<i>For >10 To 25, Add</i>	13.90	
		<i>For >25 To 50, Add</i>	8.59	
		<i>For >50 To 100, Add</i>	4.30	
		<i>For >500 To 1,000, Deduct</i>	-0.63	
		<i>For >1,000 To 2,000, Deduct</i>	-1.01	
		<i>For >2,000 To 5,000, Deduct</i>	-1.87	
		<i>For >5,000, Deduct</i>	-3.04	
33 01 70 72-0005	LF	2-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	12.72	
		<i>For Up To >10, Add</i>	22.16	
		<i>For >10 To 25, Add</i>	17.40	
		<i>For >25 To 50, Add</i>	10.76	
		<i>For >50 To 100, Add</i>	5.38	
		<i>For >500 To 1,000, Deduct</i>	-0.79	
		<i>For >1,000 To 2,000, Deduct</i>	-1.27	
		<i>For >2,000 To 5,000, Deduct</i>	-2.35	
		<i>For >5,000, Deduct</i>	-3.81	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 70 Operation and Maintenance of Electrical Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0006	LF		3" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	15.03	
			For Up To >10, Add	25.77	
			For >10 To 25, Add	20.18	
			For >25 To 50, Add	12.50	
			For >50 To 100, Add	6.25	
			For >500 To 1,000, Deduct	-0.93	
			For >1,000 To 2,000, Deduct	-1.49	
			For >2,000 To 5,000, Deduct	-2.75	
			For >5,000, Deduct	-4.47	
33 01 70 72-0007	LF		3-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	16.90	
			For Up To >10, Add	28.08	
			For >10 To 25, Add	21.89	
			For >25 To 50, Add	13.59	
			For >50 To 100, Add	6.79	
			For >500 To 1,000, Deduct	-1.04	
			For >1,000 To 2,000, Deduct	-1.66	
			For >2,000 To 5,000, Deduct	-3.05	
			For >5,000, Deduct	-4.95	
33 01 70 72-0008	LF		4" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	19.07	
			For Up To >10, Add	31.29	
			For >10 To 25, Add	24.34	
			For >25 To 50, Add	15.12	
			For >50 To 100, Add	7.56	
			For >500 To 1,000, Deduct	-1.17	
			For >1,000 To 2,000, Deduct	-1.87	
			For >2,000 To 5,000, Deduct	-3.42	
			For >5,000, Deduct	-5.55	
33 01 70 72-0009	LF		5" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	22.56	
			For Up To >10, Add	35.13	
			For >10 To 25, Add	27.11	
			For >25 To 50, Add	16.91	
			For >50 To 100, Add	8.46	
			For >500 To 1,000, Deduct	-1.37	
			For >1,000 To 2,000, Deduct	-2.17	
			For >2,000 To 5,000, Deduct	-3.95	
			For >5,000, Deduct	-6.42	
33 01 70 72-0010	LF		6" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining	26.05	
			For Up To >10, Add	39.00	
			For >10 To 25, Add	29.89	
			For >25 To 50, Add	18.72	
			For >50 To 100, Add	9.36	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000 To 2,000, Deduct	-2.47	
			For >2,000 To 5,000, Deduct	-4.48	
			For >5,000, Deduct	-7.29	
33 01 70 72-0011			3mm Thick Cured In-Place Conduit Lining (33 01 70 72-0001)		
33 01 70 72-0012	LF		1-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	10.25	
			For Up To >10, Add	17.05	
			For >10 To 25, Add	13.30	
			For >25 To 50, Add	8.25	
			For >50 To 100, Add	4.13	
			For >500 To 1,000, Deduct	-0.63	
			For >1,000 To 2,000, Deduct	-1.01	
			For >2,000 To 5,000, Deduct	-1.85	
			For >5,000, Deduct	-3.00	
33 01 70 72-0013	LF		2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	13.36	
			For Up To >10, Add	21.41	
			For >10 To 25, Add	16.59	
			For >25 To 50, Add	10.33	
			For >50 To 100, Add	5.16	
			For >500 To 1,000, Deduct	-0.82	
			For >1,000 To 2,000, Deduct	-1.30	
			For >2,000 To 5,000, Deduct	-2.37	
			For >5,000, Deduct	-3.85	
33 01 70 72-0014	LF		2-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	16.47	
			For Up To >10, Add	25.79	
			For >10 To 25, Add	19.91	
			For >25 To 50, Add	12.42	
			For >50 To 100, Add	6.21	
			For >500 To 1,000, Deduct	-1.00	
			For >1,000 To 2,000, Deduct	-1.59	
			For >2,000 To 5,000, Deduct	-2.89	
			For >5,000, Deduct	-4.70	
33 01 70 72-0015	LF		3" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining	19.28	
			For Up To >10, Add	29.27	
			For >10 To 25, Add	22.48	
			For >25 To 50, Add	14.06	
			For >50 To 100, Add	7.03	
			For >500 To 1,000, Deduct	-1.16	
			For >1,000 To 2,000, Deduct	-1.84	
			For >2,000 To 5,000, Deduct	-3.33	
			For >5,000, Deduct	-5.43	



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Electrical Utilities		33 01 70	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0016 LF 3-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	21.98	
For Up To >10, Add	32.39	
For >10 To 25, Add	24.76	
For >25 To 50, Add	15.52	
For >50 To 100, Add	7.76	
For >500 To 1,000, Deduct	-1.31	
For >1,000 To 2,000, Deduct	-2.08	
For >2,000 To 5,000, Deduct	-3.75	
For >5,000, Deduct	-6.11	
33 01 70 72-0017 LF 4" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	24.80	
For Up To >10, Add	35.90	
For >10 To 25, Add	27.35	
For >25 To 50, Add	17.18	
For >50 To 100, Add	8.59	
For >500 To 1,000, Deduct	-1.48	
For >1,000 To 2,000, Deduct	-2.33	
For >2,000 To 5,000, Deduct	-4.20	
For >5,000, Deduct	-6.84	
33 01 70 72-0018 LF 5" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	30.31	
For Up To >10, Add	42.51	
For >10 To 25, Add	32.19	
For >25 To 50, Add	20.28	
For >50 To 100, Add	10.14	
For >500 To 1,000, Deduct	-1.79	
For >1,000 To 2,000, Deduct	-2.82	
For >2,000 To 5,000, Deduct	-5.06	
For >5,000, Deduct	-8.25	
33 01 70 72-0019 LF 6" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining.....	35.41	
For Up To >10, Add	47.88	
For >10 To 25, Add	36.01	
For >25 To 50, Add	22.77	
For >50 To 100, Add	11.39	
For >500 To 1,000, Deduct	-2.07	
For >1,000 To 2,000, Deduct	-3.26	
For >2,000 To 5,000, Deduct	-5.82	
For >5,000, Deduct	-9.50	

33 05 Common Work Results for Utilities ⁽³³⁾

33 05 05 Buried Piping Installation ^(33 05)

33 05 05 43 Mandrel Testing ^(33 05 05)

33 05 05 43-0001 Pipe Line Deflection Testing (Mandrel) On Existing Pipe ^(33 05 05 43)

33 05 05 43-0002 EA Initial Set Up And Final Equipment Removal For Deflection Testing (Mandrel).....	718.98	
33 05 05 43-0003 EA Move And Reset Up At Different Access/Location For Deflection Testing (Mandrel).....	359.49	
33 05 05 43-0004 LF Up To 4" Diameter Pipe Line Deflection Testing (Mandrel)	1.11	
For >100 To 200, Deduct	-0.06	
For >200 To 400, Deduct	-0.11	
For >400, Deduct	-0.18	
33 05 05 43-0005 LF 6" Diameter Pipe Line Deflection Testing (Mandrel)	1.65	
For >100 To 200, Deduct	-0.08	
For >200 To 400, Deduct	-0.14	
For >400, Deduct	-0.23	
33 05 05 43-0006 LF 8" Diameter Pipe Line Deflection Testing (Mandrel)	1.97	
For >100 To 200, Deduct	-0.09	
For >200 To 400, Deduct	-0.17	
For >400, Deduct	-0.26	
33 05 05 43-0007 LF 10" Diameter Pipe Line Deflection Testing (Mandrel)	2.30	
For >100 To 200, Deduct	-0.10	
For >200 To 400, Deduct	-0.19	
For >400, Deduct	-0.30	
33 05 05 43-0008 LF 12" Diameter Pipe Line Deflection Testing (Mandrel)	2.57	
For >100 To 200, Deduct	-0.11	
For >200 To 400, Deduct	-0.21	
For >400, Deduct	-0.33	
33 05 05 43-0009 LF >12" To 15" Diameter Pipe Line Deflection Testing (Mandrel).....	2.71	
For >100 To 200, Deduct	-0.12	
For >200 To 400, Deduct	-0.23	
For >400, Deduct	-0.36	
33 05 05 43-0010 LF >15" To 24" Diameter Pipe Line Deflection Testing (Mandrel).....	2.88	
For >100 To 200, Deduct	-0.14	
For >200 To 400, Deduct	-0.25	
For >400, Deduct	-0.40	
33 05 05 43-0011 LF >24" To 30" Diameter Pipe Line Deflection Testing (Mandrel).....	3.18	
For >100 To 200, Deduct	-0.16	
For >200 To 400, Deduct	-0.29	
For >400, Deduct	-0.46	
33 05 05 43-0012 LF >30" To 42" Diameter Pipe Line Deflection Testing (Mandrel).....	3.78	
For >100 To 200, Deduct	-0.20	
For >200 To 400, Deduct	-0.38	
For >400, Deduct	-0.59	

33 Utilities**33 05 Common Work Results for Utilities****33 05 05 Buried Piping Installation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 05 43-0013 LF >42" To 48" Diameter Pipe Line Deflection Testing (Mandrel).....	5.07	
For >100 To 200, Deduct	-0.30	
For >200 To 400, Deduct	-0.56	
For >400, Deduct	-0.88	
33 05 05 43-0014 LF >48" To 60" Diameter Pipe Line Deflection Testing (Mandrel).....	6.47	
For >100 To 200, Deduct	-0.40	
For >200 To 400, Deduct	-0.75	
For >400, Deduct	-1.19	

33 05 07 Trenchless Installation of Utility Piping (33 05)**33 05 07 13 Utility Directional Drilling (33 05 07)****33 05 07 13-0001 Horizontal Augering (33 05 07 13)**

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0002 LF Up To 2" Diameter Horizontal Hand Augering	27.41	
33 05 07 13-0003 LF 3" Diameter Horizontal Hand Augering	33.07	
33 05 07 13-0004 LF 4" Diameter Horizontal Hand Augering	45.36	
33 05 07 13-0005 LF 6" Diameter Horizontal Hand Augering	58.59	
33 05 07 13-0006 LF 8" Diameter Horizontal Augering.....	107.33	
33 05 07 13-0007 LF 10" Diameter Horizontal Augering.....	156.58	
33 05 07 13-0008 LF 12" Diameter Horizontal Augering.....	188.15	
33 05 07 13-0009 LF 16" Diameter Horizontal Augering.....	224.76	
33 05 07 13-0010 LF 20" Diameter Horizontal Augering.....	388.91	
33 05 07 13-0011 LF 24" Diameter Horizontal Augering.....	481.30	
33 05 07 13-0012 LF 30" Diameter Horizontal Augering.....	593.65	
33 05 07 13-0013 LF 36" Diameter Horizontal Augering.....	678.25	
33 05 07 13-0014 LF 42" Diameter Horizontal Augering.....	862.73	
33 05 07 13-0015 LF 48" Diameter Horizontal Augering.....	929.61	
33 05 07 13-0016 LF 54" Diameter Horizontal Augering.....	1,010.98	
33 05 07 13-0017 LF 60" Diameter Horizontal Augering.....	1,059.90	
33 05 07 13-0018 EA 8" To 20" Horizontal Augering Minimum Set-up Charge	3,535.59	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0019 EA >20" To 36" Horizontal Augering Minimum Set-up Charge.....	4,993.26	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0020 EA >36" Horizontal Augering Minimum Set-up Charge	7,828.57	
Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 13-0021 Horizontal Directional Boring (33 05 07 13)

Note: Excludes receiving pits or dewatering or cost of casing pipe. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	14.90	
For Horizontal Boring Through Rock, Add	10.43	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground	22.35	
For Horizontal Boring Through Rock, Add	15.65	
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	31.04	
For Horizontal Boring Through Rock, Add	21.73	
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground	38.49	
For Horizontal Boring Through Rock, Add	26.94	
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground	45.94	
For Horizontal Boring Through Rock, Add	32.16	
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground	53.39	
For Horizontal Boring Through Rock, Add	37.37	
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground	62.09	
For Horizontal Boring Through Rock, Add	43.46	
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground	75.77	
For Horizontal Boring Through Rock, Add	53.04	
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground	82.08	
For Horizontal Boring Through Rock, Add	57.46	
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground	88.39	
For Horizontal Boring Through Rock, Add	61.87	
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground	183.09	
For Horizontal Boring Through Rock, Add	128.16	
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground	284.34	
For Horizontal Boring Through Rock, Add	199.04	
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground	433.44	
For Horizontal Boring Through Rock, Add	303.41	
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground	693.51	
For Horizontal Boring Through Rock, Add	485.46	
33 05 07 13-0036 EA Up To 6" Horizontal Directional Boring Minimum Set-up Charge.....	2,731.77	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037 EA >6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	3,535.59	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038 EA >18" To 36" Horizontal Directional Boring Minimum Set-up Charge.....	4,993.26	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Trenchless Installation of Utility Piping	33 05 07	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 07 23 Utility Boring and Jacking (33 05 07)

33 05 07 23-0001 Horizontal Jacking (33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits.

33 05 07 23-0002	LF	Up To 2" Diameter Horizontal Jacking.....	74.31	
		<i>For Horizontal Jacking Through Rock, Add</i>	33.11	
33 05 07 23-0003	LF	3" Diameter Horizontal Jacking.....	89.00	
		<i>For Horizontal Jacking Through Rock, Add</i>	39.96	
33 05 07 23-0004	LF	4" Diameter Horizontal Jacking.....	120.02	
		<i>For Horizontal Jacking Through Rock, Add</i>	54.80	
33 05 07 23-0005	LF	6" Diameter Horizontal Jacking.....	155.14	
		<i>For Horizontal Jacking Through Rock, Add</i>	70.78	
33 05 07 23-0006	LF	8" Diameter Horizontal Jacking.....	209.83	
		<i>For Horizontal Jacking Through Rock, Add</i>	97.03	
33 05 07 23-0007	LF	10" Diameter Horizontal Jacking.....	307.82	
		<i>For Horizontal Jacking Through Rock, Add</i>	141.56	
33 05 07 23-0008	LF	12" Diameter Horizontal Jacking.....	370.70	
		<i>For Horizontal Jacking Through Rock, Add</i>	170.11	
33 05 07 23-0009	LF	16" Diameter Horizontal Jacking.....	442.56	
		<i>For Horizontal Jacking Through Rock, Add</i>	203.22	
33 05 07 23-0010	LF	20" Diameter Horizontal Jacking.....	678.29	
		<i>For Horizontal Jacking Through Rock, Add</i>	352.77	
33 05 07 23-0011	LF	24" Diameter Horizontal Jacking.....	1,179.46	
		<i>For Horizontal Jacking Through Rock, Add</i>	395.90	
33 05 07 23-0012	LF	30" Diameter Horizontal Jacking.....	1,361.36	
		<i>For Horizontal Jacking Through Rock, Add</i>	488.85	
33 05 07 23-0013	LF	36" Diameter Horizontal Jacking.....	1,535.18	
		<i>For Horizontal Jacking Through Rock, Add</i>	558.96	
33 05 07 23-0014	LF	42" Diameter Horizontal Jacking.....	1,648.07	
		<i>For Horizontal Jacking Through Rock, Add</i>	603.61	
33 05 07 23-0015	LF	48" Diameter Horizontal Jacking.....	1,788.56	
		<i>For Horizontal Jacking Through Rock, Add</i>	650.38	
33 05 07 23-0016	LF	54" Diameter Horizontal Jacking.....	1,907.22	
		<i>For Horizontal Jacking Through Rock, Add</i>	707.83	
33 05 07 23-0017	EA	Up To 6" Horizontal Jacking Minimum Set-up Charge.....	2,731.77	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018	EA	>6" To 20" Horizontal Jacking Minimum Set-up Charge.....	3,535.59	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019	EA	>20" To 36" Horizontal Jacking Minimum Set-up Charge.....	4,993.26	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020	EA	>36" Horizontal Jacking Minimum Set-up Charge.....	7,828.57	
		Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001 Casing Pipe (33 05 07 24)

Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.

33 05 07 24-0002 Steel Pipe (33 05 07 24-0001)

33 05 07 24-0003	LF	1-1/2" Steel Pipe Pull In Place By Boring Machine.....	24.31	
		Note: Includes pipe welding.		
33 05 07 24-0004	LF	2" Steel Pipe Pull In Place By Boring Machine.....	25.73	
		Note: Includes pipe welding.		
33 05 07 24-0005	LF	2-1/2" Steel Pipe Pull In Place By Boring Machine.....	27.85	
		Note: Includes pipe welding.		
33 05 07 24-0006	LF	3" Steel Pipe Pull In Place By Boring Machine.....	30.01	
		Note: Includes pipe welding.		
33 05 07 24-0007	LF	4" Steel Pipe Pull In Place By Boring Machine.....	38.24	
		Note: Includes pipe welding.		
33 05 07 24-0008	LF	5" Steel Pipe Pull In Place By Boring Machine.....	43.37	
		Note: Includes pipe welding.		
33 05 07 24-0009	LF	6" Steel Pipe Pull In Place By Boring Machine.....	48.51	
		Note: Includes pipe welding.		

33 05 07 24-0010 Polyethylene Pipe (33 05 07 24-0001)

Note: Includes detectable tracer wire.

33 05 07 24-0011	LF	3/4" Polyethylene Pipe Pull In Place By Boring Machine.....	6.00	
		Note: Includes pipe welding.		
33 05 07 24-0012	LF	1" Polyethylene Pipe Pull In Place By Boring Machine.....	6.59	
		Note: Includes pipe welding.		
33 05 07 24-0013	LF	1-1/4" Polyethylene Pipe Pull In Place By Boring Machine.....	7.15	
		Note: Includes pipe welding.		
33 05 07 24-0014	LF	1-1/2" Polyethylene Pipe Pull In Place By Boring Machine.....	7.65	
		Note: Includes pipe welding.		

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0015	LF	2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	8.18	
33 05 07 24-0016	LF	2-1/2" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	8.74	
33 05 07 24-0017	LF	3" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	9.31	
33 05 07 24-0018	LF	4" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	11.28	
33 05 07 24-0019	LF	5" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	12.48	
33 05 07 24-0020	LF	6" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	13.69	
33 05 07 24-0021	LF	8" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	17.79	
33 05 07 24-0022	LF	10" Polyethylene Pipe Pull In Place By Boring Machine Note: Includes pipe welding.	24.17	

33 05 09 Piping Specials for Utilities (33 05)**33 05 09 13 Couplings for Utility Piping** (33 05 09)

See CSI section 33 42 11 00-0058 for couplings.

33 05 09 23 Adapters for Utility Piping (33 05 09)

See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33 Thrust Restraint for Utility Piping (33 05 09)

See CSI section 33 14 13 13-0547 for mechanical restraints, 33 14 13 13-0582 for flanged restraints, 33 14 13 13-1167 for slip-on restraints, 33 14 13 13-1183 for slip-on restraint harnesses.

33 05 16 Cast-Iron Utility Pipe (33 05)

See CSI section 22 13 16 00-0019 for cast iron utility piping.

33 05 17 Copper Utility Pipe and Tubing (33 05)

See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19 Ductile-Iron Utility Pipe (33 05)

See CSI section 33 14 13 13-0000 for ductile iron utility piping.

33 05 24 Steel Utility Pipe (33 05)**33 05 24 23 Steel Pipe for Water Service** (33 05 24)

See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.

33 05 27 Corrugated Metal Utility Pipe (33 05)**33 05 27 13 Corrugated Metal Culvert Pipe** (33 05 27)

See CSI section 33 42 11 00-0498 for corrugated metal culvert pipe.

33 05 27 23 Corrugated Metal Slotted Pipe (33 05 27)

See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.

33 05 27 33 Corrugated Metal Culvert Arch Pipe (33 05 27)

See CSI section 33 42 11 00-0842 for corrugated metal culvert arch pipe.

33 05 31 Thermoplastic Utility Pipe (33 05)**33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe** (33 05 31)

See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.

33 05 31 13 Polyvinyl Chloride Pressure Pipe (33 05 31)

See CSI section 33 14 13 23-0001 for polyvinyl chloride pressure pipe.

33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) (33 05 31)

See CSI section 33 14 13 23-0285 for AWWA C900 and 905 polyvinyl chloride pressure pipe.

33 05 33 Polyethylene Utility Pipe (33 05)**33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe** (33 05 33)

See CSI section 33 42 11 00-0239 for corrugated-wall smooth interior HDPE gravity pipe.

33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) (33 05 33)

See CSI section 33 14 13 23-0540 for AWWA C906 high-density polyethylene pipe.

33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe (33 05 33)

See CSI section 33 42 11 00-0261 for corrugated perforated HDPE drainage pipe.

33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe (33 05 33)

See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.

33 05 33 63 HDPE Communication Duct (33 05 33)**33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine** (33 05 33 63)

Note: Excludes boring.



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Polyethylene Utility Pipe	33 05 33	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 05 33 63-0002	LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		3.87	
	For Up To 250, Add	0.13		
	For >250 To 500, Add	0.08		
33 05 33 63-0003	LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		4.34	
	For Up To 250, Add	0.15		
	For >250 To 500, Add	0.10		
33 05 33 63-0004	LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		4.71	
	For Up To 250, Add	0.18		
	For >250 To 500, Add	0.12		
33 05 33 63-0005	LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		5.17	
	For Up To 250, Add	0.21		
	For >250 To 500, Add	0.14		
33 05 33 63-0006	LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		6.99	
	For Up To 250, Add	0.44		
	For >250 To 500, Add	0.29		
33 05 33 63-0007	LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		8.88	
	For Up To 250, Add	0.67		
	For >250 To 500, Add	0.45		
33 05 33 63-0008	LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		3.96	
	For Up To 250, Add	0.14		
	For >250 To 500, Add	0.09		
33 05 33 63-0009	LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		4.50	
	For Up To 250, Add	0.18		
	For >250 To 500, Add	0.12		
33 05 33 63-0010	LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		4.84	
	For Up To 250, Add	0.20		
	For >250 To 500, Add	0.13		
33 05 33 63-0011	LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		5.51	
	For Up To 250, Add	0.26		
	For >250 To 500, Add	0.17		
33 05 33 63-0012	LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		7.74	
	For Up To 250, Add	0.55		
	For >250 To 500, Add	0.37		
33 05 33 63-0013	LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smooth Interior Wall HDPE Conduit, Pulled In Place By Boring Machine.....		9.82	
	For Up To 250, Add	0.81		
	For >250 To 500, Add	0.54		

33 05 39 Concrete Pipe (33 05)

33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) (33 05 39)

See CSI section 33 42 11 00-0092 for prestressed concrete pressure pipe.

33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts (33 05 39)

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

33 05 41 Vitrified Clay Utility Pipe (33 05)

See CSI section 33 42 11 00-0365 for vitrified clay piping.

33 05 61 Concrete Manholes (33 05)

33 05 61 00-0001 Manholes (33 05 61)

33 05 61 00-0002 Precast Concrete Manholes (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.
See CSI section 33 05 84 00-0002 for top slabs.

33 05 61 00-0003 3' Diameter, Precast Concrete Manholes (33 05 61 00-0002)

33 05 61 00-0004	EA 4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,770.37	314.92
	For Bitumastic Coating, Add	82.02	
	For Epoxy Coating, Add	156.73	
33 05 61 00-0005	EA 6' Deep, 3' Diameter, Precast Concrete Manhole.....	2,412.13	452.33
	For Bitumastic Coating, Add	123.03	
	For Epoxy Coating, Add	235.10	
33 05 61 00-0006	EA 8' Deep, 3' Diameter, Precast Concrete Manhole.....	3,248.54	687.08
	For Bitumastic Coating, Add	164.04	
	For Epoxy Coating, Add	313.46	
33 05 61 00-0007	VLF Riser For 3' Diameter, Precast Concrete Manhole.....	343.78	80.16
	Note: For depths greater than 8'.		
	For Bitumastic Coating, Add	20.50	
	For Epoxy Coating, Add	39.18	
33 05 61 00-0008	VLF Drop Collar For 3' Diameter, Precast Concrete Manhole.....	370.69	80.16
33 05 61 00-0009	EA Drop Base For 3' Diameter, Precast Concrete Manhole.....	594.65	80.16
33 05 61 00-0010	EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	474.38	80.16

33 Utilities**33 05 Common Work Results for Utilities****33 05 61 Concrete Manholes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole	679.22	80.16
33 05 61 00-0012 4' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole	2,733.64	360.72
For Bitumastic Coating, Add	82.02	
For Epoxy Coating, Add	156.73	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole	3,645.71	492.41
For Bitumastic Coating, Add	123.03	
For Epoxy Coating, Add	235.10	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole	4,787.73	744.34
For Bitumastic Coating, Add	164.04	
For Epoxy Coating, Add	313.46	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole	508.99	94.47
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	20.50	
For Epoxy Coating, Add	39.18	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole	556.36	94.47
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole	950.53	94.47
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole	738.86	94.47
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole	1,099.41	94.47
33 05 61 00-0021 5' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole	5,211.97	400.79
For Bitumastic Coating, Add	105.68	
For Epoxy Coating, Add	252.67	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole	6,937.49	549.67
For Bitumastic Coating, Add	158.51	
For Epoxy Coating, Add	379.00	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole	8,917.90	824.50
For Bitumastic Coating, Add	211.35	
For Epoxy Coating, Add	505.33	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole	921.83	103.07
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	26.42	
For Epoxy Coating, Add	63.17	
33 05 61 00-0026 6' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole	7,019.07	446.60
For Bitumastic Coating, Add	120.98	
For Epoxy Coating, Add	295.81	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole	9,134.11	606.93
For Bitumastic Coating, Add	181.48	
For Epoxy Coating, Add	443.71	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole	11,534.53	916.11
For Bitumastic Coating, Add	241.97	
For Epoxy Coating, Add	591.61	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole	1,122.68	114.52
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	30.25	
For Epoxy Coating, Add	73.95	
33 05 61 00-0031 7' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole	11,124.57	492.41
For Bitumastic Coating, Add	257.28	
For Epoxy Coating, Add	516.90	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole	14,376.00	671.63
For Bitumastic Coating, Add	385.91	
For Epoxy Coating, Add	775.35	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole	17,941.19	1,007.72
For Bitumastic Coating, Add	514.55	
For Epoxy Coating, Add	1,033.80	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole	1,698.43	125.97
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	64.32	
For Epoxy Coating, Add	129.22	
33 05 61 00-0036 8' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole	16,140.15	566.85
For Bitumastic Coating, Add	304.16	
For Epoxy Coating, Add	630.05	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole	20,917.41	772.97
For Bitumastic Coating, Add	456.23	
For Epoxy Coating, Add	945.08	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole	26,055.40	1,159.46
For Bitumastic Coating, Add	608.31	
For Epoxy Coating, Add	1,260.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 05 61 00-0040	VLF		Riser For 8' Diameter, Precast Concrete Manhole Note: For depths greater than 8'. For Bitumastic Coating, Add For Epoxy Coating, Add	2,468.80 76.04 157.51	143.14

33 05 63 Concrete Vaults and Chambers (33 05)

33 05 63 00-0001 Underground Utility Vaults And Structures (33 05 63)
See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.

33 05 63 00-0002 Precast Concrete Underground Utility Vault (33 05 63 00-0001)
Note: Sizes given are for inside dimensions.

33 05 63 00-0003 6' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)

33 05 63 00-0004	EA	4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,731.71
33 05 63 00-0005	EA	4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,864.30
33 05 63 00-0006	EA	5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,024.94
33 05 63 00-0007	EA	5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,266.13
33 05 63 00-0008	EA	6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,216.33
33 05 63 00-0009	EA	6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,567.19
33 05 63 00-0010	EA	6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,919.23
33 05 63 00-0011	EA	6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,886.55
33 05 63 00-0012	EA	6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,886.55
33 05 63 00-0013	EA	6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,226.22
33 05 63 00-0014	EA	8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,138.68
33 05 63 00-0015	EA	8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,709.01
33 05 63 00-0016	EA	8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,307.61
33 05 63 00-0017	EA	8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,228.63

33 05 63 00-0018 7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)

33 05 63 00-0019	EA	4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,149.98
33 05 63 00-0020	EA	4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,388.61
33 05 63 00-0021	EA	4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,560.48
33 05 63 00-0022	EA	5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,729.46
33 05 63 00-0023	EA	5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,065.31
33 05 63 00-0024	EA	6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,848.87
33 05 63 00-0025	EA	6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,225.53
33 05 63 00-0026	EA	6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,769.44
33 05 63 00-0027	EA	6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,013.74
33 05 63 00-0028	EA	6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,604.01
33 05 63 00-0029	EA	8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,890.51
33 05 63 00-0030	EA	8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,554.41
33 05 63 00-0031	EA	8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,560.78
33 05 63 00-0032	EA	8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,605.28
33 05 63 00-0033	EA	10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,810.53

33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)

33 05 63 00-0035	EA	4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,483.55
33 05 63 00-0036	EA	4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,804.40

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0037	EA	5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,433.95	
33 05 63 00-0038	EA	5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,863.36	
33 05 63 00-0039	EA	6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,343.53	
33 05 63 00-0040	EA	6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,882.67	
33 05 63 00-0041	EA	6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,421.83	
33 05 63 00-0042	EA	6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,140.91	
33 05 63 00-0043	EA	6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,981.89	
33 05 63 00-0044	EA	8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,641.22	
33 05 63 00-0045	EA	8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	12,399.78	
33 05 63 00-0046	EA	8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,812.69	
33 05 63 00-0047	EA	8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,983.13	
33 05 63 00-0048	EA	10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,063.31	
33 05 63 00-0049		10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050	EA	6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,907.16	
33 05 63 00-0051	EA	6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,539.81	
33 05 63 00-0052	EA	10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	19,315.17	
33 05 63 00-0053		12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054	EA	6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,470.75	
33 05 63 00-0055	EA	6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,198.13	
33 05 63 00-0056		Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057		Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058	EA	4' x 4' x 4' Deep Precast Concrete Meter Pit.....	3,795.94	
33 05 63 00-0059	EA	4' x 4' x 6' Deep Precast Concrete Meter Pit.....	5,161.80	
33 05 63 00-0060	EA	4' x 4' x 8' Deep Precast Concrete Meter Pit.....	6,501.91	
33 05 63 00-0061	EA	4' x 4' x 10' Deep Precast Concrete Meter Pit.....	8,068.00	
33 05 63 00-0062	EA	4' x 4' x 15' Deep Precast Concrete Meter Pit.....	11,192.99	
33 05 63 00-0063	EA	6' x 6' x 4' Deep Precast Concrete Meter Pit.....	5,769.78	
33 05 63 00-0064	EA	6' x 6' x 6' Deep Precast Concrete Meter Pit.....	8,068.00	
33 05 63 00-0065	EA	6' x 6' x 8' Deep Precast Concrete Meter Pit.....	10,415.41	
33 05 63 00-0066	EA	6' x 6' x 10' Deep Precast Concrete Meter Pit.....	12,992.76	
33 05 63 00-0067	EA	6' x 6' x 15' Deep Precast Concrete Meter Pit.....	18,566.62	
33 05 63 00-0068		Handhole Or Pull Box Enclosures (33 05 63 00-0001)		
33 05 63 00-0069		Polymer Concrete Handhole Enclosures (33 05 63 00-0068)		
33 05 63 00-0070		Polymer Concrete Handhole Enclosures (33 05 63 00-0069) Note: Excludes cover See CSI section 33 05 63 00-0290 for covers.		
33 05 63 00-0071		Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072		Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	397.13	24.99
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	332.15	55.49
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	507.60	83.24
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	594.30	83.24
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	565.65	83.24
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	690.70	83.24
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	671.83	83.24
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	925.04	83.24



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,316.16	110.98
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,861.09	110.98
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,178.47	152.59
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,349.12	152.59
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,236.87	152.59
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,257.35	166.47
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,816.33	166.47
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,273.45	166.47
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	3,354.62	166.47
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,816.50	259.08
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,657.80	259.08
33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)				
33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	510.40	24.99
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	642.50	83.24
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	782.07	83.24
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	719.60	83.24
33 05 63 00-0097	EA	13" x 24", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	826.47	83.24
33 05 63 00-0098	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	854.50	83.24
33 05 63 00-0099	EA	17" x 30", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,109.28	83.24
33 05 63 00-0100	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,465.34	152.59
33 05 63 00-0101	EA	24" x 36", 26" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,635.99	152.59
33 05 63 00-0102	EA	24" x 36", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,523.77	152.59
33 05 63 00-0103	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,151.73	259.08
33 05 63 00-0104	EA	30" x 48", 48" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,999.43	259.08
33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)				
33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0107	EA	5" x 16", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	656.16	24.99
33 05 63 00-0108	EA	10" x 12", 15" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	553.64	24.99
33 05 63 00-0109	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	431.94	83.24
33 05 63 00-0110	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	492.43	83.24
33 05 63 00-0111	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	148.68	24.99
33 05 63 00-0112	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	234.41	24.99
33 05 63 00-0113	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	383.21	24.99
33 05 63 00-0114	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	401.22	24.99
33 05 63 00-0115	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	325.87	55.49
33 05 63 00-0116	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	353.49	55.49
33 05 63 00-0117	EA	8" x 8", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	230.73	24.99
33 05 63 00-0118	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	264.47	24.99
33 05 63 00-0119	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	350.62	55.49
33 05 63 00-0120	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	397.06	55.49
33 05 63 00-0121	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	367.00	55.49
33 05 63 00-0122	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	434.75	83.24
33 05 63 00-0123	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	480.30	83.24

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0124	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	514.18	83.24
33 05 63 00-0125	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	565.19	83.24
33 05 63 00-0126	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	666.93	83.24
33 05 63 00-0127	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	728.64	83.24
33 05 63 00-0128	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	796.17	83.24
33 05 63 00-0129	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	838.63	83.24
33 05 63 00-0130	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	996.06	110.98
33 05 63 00-0131	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	993.61	152.59
33 05 63 00-0132	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,289.36	152.59
33 05 63 00-0133	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,562.45	152.59
33 05 63 00-0134	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,734.91	152.59
33 05 63 00-0135	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,906.46	152.59
33 05 63 00-0136	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,144.72	259.08
33 05 63 00-0137	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,540.13	259.08
33 05 63 00-0138	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,759.17	259.08
33 05 63 00-0139	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,178.02	259.08
33 05 63 00-0140	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,173.72	259.08
33 05 63 00-0141	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,330.07	259.08
33 05 63 00-0142	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,630.75	259.08
33 05 63 00-0143	EA	36" x 60", 19" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,407.87	277.59
33 05 63 00-0144	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,620.16	277.59
33 05 63 00-0145	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,891.19	277.59
33 05 63 00-0146	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,999.64	277.59
33 05 63 00-0147	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,037.34	277.59
33 05 63 00-0148	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,450.31	277.59
33 05 63 00-0149	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,648.30	277.59
33 05 63 00-0150	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,518.47	277.59
33 05 63 00-0151	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,965.28	296.09
33 05 63 00-0152	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,912.06	296.09
33 05 63 00-0153	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	6,323.05	296.09
33 05 63 00-0154		Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	588.99	83.24
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	678.73	83.24
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	256.24	24.99
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	373.41	24.99
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	502.93	24.99
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	520.96	24.99
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	443.80	55.49
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	463.02	55.49
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	488.72	55.49
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	348.01	24.99



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	412.51		24.99
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	488.10		55.49
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	534.54		55.49
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	505.94		55.49
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	588.13		83.24
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	634.24		83.24
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	697.20		83.24
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	747.89		83.24
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	849.33		83.24
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	911.31		83.24
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	978.55		83.24
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,021.31		83.24
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,248.40		110.98
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,280.50		152.59
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,575.91		152.59
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,848.70		152.59
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,020.89		152.59
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,193.00		152.59
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,872.20		259.08
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,091.56		259.08
33 05 63 00-0185	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,510.09		259.08
33 05 63 00-0186		Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)			
33 05 63 00-0187	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	538.84		83.24
33 05 63 00-0188	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	631.07		83.24
33 05 63 00-0189	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	187.68		24.99
33 05 63 00-0190	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	313.21		24.99
33 05 63 00-0191	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	452.83		24.99
33 05 63 00-0192	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	471.19		24.99
33 05 63 00-0193	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	410.82		55.49
33 05 63 00-0194	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	464.27		55.49
33 05 63 00-0195	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	273.24		24.99
33 05 63 00-0196	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	437.08		55.49
33 05 63 00-0197	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	503.67		55.49
33 05 63 00-0198	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	454.39		55.49
33 05 63 00-0199	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	581.06		83.24
33 05 63 00-0200	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	672.10		83.24
33 05 63 00-0201	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	702.37		83.24
33 05 63 00-0202	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	774.46		83.24
33 05 63 00-0203	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	840.77		83.24
33 05 63 00-0204	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	903.38		83.24
33 05 63 00-0205	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,015.48		83.24
33 05 63 00-0206	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,031.11		83.24
33 05 63 00-0207	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,267.96		110.98

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0208	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,305.85	152.59
33 05 63 00-0209	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,632.09	152.59
33 05 63 00-0210	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,954.74	152.59
33 05 63 00-0211	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,169.04	152.59
33 05 63 00-0212	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,383.34	152.59
33 05 63 00-0213	EA	36" x 36", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,543.99	259.08
33 05 63 00-0214	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,939.43	259.08
33 05 63 00-0215	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,175.56	259.08
33 05 63 00-0216	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,594.12	259.08
33 05 63 00-0217	EA	30" x 60", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,778.74	259.08
33 05 63 00-0218	EA	30" x 60", 30" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,836.55	259.08
33 05 63 00-0219	EA	30" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,397.41	259.08
33 05 63 00-0220	EA	36" x 60", 19" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,141.81	277.59
33 05 63 00-0221	EA	36" x 60", 24" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,251.50	277.59
33 05 63 00-0222	EA	36" x 60", 31" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,562.66	277.59
33 05 63 00-0223	EA	36" x 60", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,798.17	277.59
33 05 63 00-0224	EA	36" x 72", 21" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,483.38	277.59
33 05 63 00-0225	EA	36" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,325.63	277.59
33 05 63 00-0226	EA	48" x 48", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,745.61	277.59
33 05 63 00-0227	EA	48" x 48", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,123.52	277.59
33 05 63 00-0228	EA	48" x 72", 36" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,004.77	296.09
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,951.93	296.09
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 Lb. Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	8,053.84	296.09
33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)				
33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	695.87	83.24
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	817.73	83.24
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	294.37	24.99
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	451.94	24.99
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	572.30	24.99
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	590.90	24.99
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	548.30	55.49
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	601.42	55.49
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	425.70	24.99
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	573.94	55.49
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	640.53	55.49
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	554.09	55.49
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	735.06	83.24
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	826.10	83.24
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	885.05	83.24
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	957.16	83.24
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,023.45	83.24



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,086.08		83.24	
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,198.21		83.24	
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,213.78		83.24	
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,519.98		110.98	
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,592.72		152.59	
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,918.67		152.59	
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,240.96		152.59	
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,455.42		152.59	
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,669.89		152.59	
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,271.80		259.08	
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,508.25		259.08	
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 Lb. Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,926.51		259.08	
33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)						
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	577.13		83.24	
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	390.02		55.49	
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	441.36		55.49	
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	510.49		83.24	
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	406.84		55.49	
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 Lb. Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	456.01		55.49	
33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)						
Note: Excludes bases See CSI section 33 05 63 00-0070 for bases.						
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	414.91		83.24	
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	468.41		83.24	
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	532.96		110.98	
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	585.49		110.98	
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	687.26		152.59	
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,228.51		259.08	
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,171.08		259.08	
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,183.61		259.08	
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	1,614.35		277.59	
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	2,597.99		296.09	
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension	3,432.29		296.09	
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	695.66		83.24	
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	728.34		83.24	
33 05 63 00-0282	EA	24" x 24", 6" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	772.44		110.98	
33 05 63 00-0283	EA	24" x 24", 12" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	825.54		110.98	
33 05 63 00-0284	EA	24" x 36", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	949.93		152.59	
33 05 63 00-0285	EA	30" x 48", 8" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension	1,542.27		259.08	
33 05 63 00-0286	EA	13" x 24", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	535.87		83.24	
33 05 63 00-0287	EA	17" x 30", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	600.34		83.24	
33 05 63 00-0288	EA	24" x 36", 4" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	779.77		152.59	
33 05 63 00-0289	EA	36" x 60", 3" Extension, 22,500 Lb. Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension	1,552.86		277.59	
33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)						
33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)						

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 63 00-0292	EA	5" x 16", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	153.46	11.11
33 05 63 00-0293	EA	10" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	155.52	11.11
33 05 63 00-0294	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	143.74	11.11
33 05 63 00-0295	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	155.92	11.11
33 05 63 00-0296	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	157.50	11.10
33 05 63 00-0297	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	181.49	11.10
33 05 63 00-0298	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	211.16	11.10
33 05 63 00-0299	EA	30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,406.23	33.31
33 05 63 00-0300	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,229.27	33.31
33 05 63 00-0301	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,845.64	33.31
33 05 63 00-0302	EA	48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	1,866.65	33.31
33 05 63 00-0303	EA	36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	2,116.05	33.31
33 05 63 00-0304	EA	48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	2,306.55	33.31
33 05 63 00-0305	EA	48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	3,713.01	33.31
33 05 63 00-0306	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	130.66	11.10
33 05 63 00-0307	EA	11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	189.56	11.10
33 05 63 00-0308	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	192.29	11.10
33 05 63 00-0309	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	243.33	11.10
33 05 63 00-0310	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	182.24	11.10
33 05 63 00-0311	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	288.85	11.10
33 05 63 00-0312	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover	225.62	11.10
33 05 63 00-0313	EA	27" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	468.74	11.10
33 05 63 00-0314	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	407.34	16.65
33 05 63 00-0315	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	512.57	16.65
33 05 63 00-0316	EA	39" Round, 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	661.61	19.42
33 05 63 00-0317	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	931.25	25.91
33 05 63 00-0318	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover	966.75	49.35
33 05 63 00-0319	EA	11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	246.39	11.10
33 05 63 00-0320	EA	13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	353.63	11.10
33 05 63 00-0321	EA	17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	403.13	11.10
33 05 63 00-0322	EA	27" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	673.91	11.10
33 05 63 00-0323	EA	24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	551.99	16.65
33 05 63 00-0324	EA	39" Round, 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,937.14	19.42
33 05 63 00-0325	EA	36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,229.71	25.91
33 05 63 00-0326	EA	30" x 59", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,659.93	33.31
33 05 63 00-0327	EA	30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,474.53	33.31
33 05 63 00-0328	EA	36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,064.11	33.31
33 05 63 00-0329	EA	48" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,691.14	33.31
33 05 63 00-0330	EA	36" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,576.76	33.31
33 05 63 00-0331	EA	48" x 72", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,917.21	33.31
33 05 63 00-0332	EA	48" x 96", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	6,056.70	33.31
33 05 63 00-0333	EA	11" x 18", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	325.84	11.10
33 05 63 00-0334	EA	11" x 20", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	356.82	11.10
33 05 63 00-0335	EA	13" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	471.55	11.10
33 05 63 00-0336	EA	17" x 30", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	538.14	11.10
33 05 63 00-0337	EA	27" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	934.11	11.10
33 05 63 00-0338	EA	24" x 24", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	674.61	16.65
33 05 63 00-0339	EA	24" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	925.30	16.65
33 05 63 00-0340	EA	39" Round, 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,437.74	19.42
33 05 63 00-0341	EA	36" x 36", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,645.18	25.91
33 05 63 00-0342	EA	30" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,710.63	49.35
33 05 63 00-0343	EA	30" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	1,979.14	33.31
33 05 63 00-0344	EA	36" x 60", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	2,767.42	33.31
33 05 63 00-0345	EA	48" x 48", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,876.19	33.31
33 05 63 00-0346	EA	36" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	3,457.74	33.31
33 05 63 00-0347	EA	48" x 72", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	5,737.52	33.31
33 05 63 00-0348	EA	48" x 96", 22,500 Lb. Design Load, Extra Heavy-Duty, Polymer Concrete Handhole Enclosure Cover	8,862.00	33.31

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)

33 05 63 00-0350	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	177.05	11.11
33 05 63 00-0351	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	187.42	11.11
33 05 63 00-0352	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	190.80	11.10
33 05 63 00-0353	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	192.07	11.10
33 05 63 00-0354	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	222.48	11.10
33 05 63 00-0355	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	140.22	11.10
33 05 63 00-0356	EA	11" x 18", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	199.36	11.10
33 05 63 00-0357	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	201.25	11.10
33 05 63 00-0358	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	253.43	11.10
33 05 63 00-0359	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	193.24	11.10
33 05 63 00-0360	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	237.24	11.10
33 05 63 00-0361	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	299.55	11.10
33 05 63 00-0362	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	414.52	16.65
33 05 63 00-0363	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	523.59	16.65
33 05 63 00-0364	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	978.07	49.35
33 05 63 00-0365	EA	6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	115.90	11.11
33 05 63 00-0366	EA	8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	184.17	11.11
33 05 63 00-0367	EA	8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	205.45	11.11
33 05 63 00-0368	EA	12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	196.00	11.11



MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 05 63 00-0369	EA	10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	160.55			11.10
33 05 63 00-0370	EA	11" x 18", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	256.17			11.10
33 05 63 00-0371	EA	11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	278.27			11.10
33 05 63 00-0372	EA	13" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	364.02			11.10
33 05 63 00-0373	EA	17" x 30", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	414.42			11.10
33 05 63 00-0374	EA	24" x 24", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	562.09			16.65
33 05 63 00-0375	EA	24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	703.80			16.65
33 05 63 00-0376	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,291.18			49.35
 33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)						
33 05 63 00-0378	EA	6" x 9", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	92.42			11.11
33 05 63 00-0379	EA	7" x 13", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	110.78			11.11
33 05 63 00-0380	EA	12" x 12", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	135.51			11.11
33 05 63 00-0381	EA	8" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	146.50			11.11
33 05 63 00-0382	EA	11" x 18", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	146.20			11.10
33 05 63 00-0383	EA	13" x 24", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	174.36			11.10
33 05 63 00-0384	EA	17" x 30", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	202.04			11.10
33 05 63 00-0385	EA	24" x 36", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	494.53			16.65
33 05 63 00-0386	EA	30" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	925.54			49.35
33 05 63 00-0387	EA	30" x 59", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,390.77			33.31
33 05 63 00-0388	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,211.81			33.31
33 05 63 00-0389	EA	48" x 48", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,816.91			33.31
33 05 63 00-0390	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,752.92			33.31
33 05 63 00-0391	EA	36" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,099.37			33.31
33 05 63 00-0392	EA	48" x 72", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,244.91			33.31
33 05 63 00-0393	EA	48" x 96", 5,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	3,594.57			33.31
33 05 63 00-0394	EA	10" x 15", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	125.43			11.10
33 05 63 00-0395	EA	10" x 16", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	122.37			11.10
33 05 63 00-0396	EA	11" x 20", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	182.95			11.10
33 05 63 00-0397	EA	11" x 21", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	201.50			11.10
33 05 63 00-0398	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	228.68			11.10
33 05 63 00-0399	EA	13" x 24", 8,000 Lb. Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	172.77			11.10
33 05 63 00-0400	EA	18" x 19", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	193.24			11.10
33 05 63 00-0401	EA	17" x 30", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	276.02			11.10
33 05 63 00-0402	EA	24" x 24", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	399.03			16.65
33 05 63 00-0403	EA	20" x 42", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	500.25			16.65
33 05 63 00-0404	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	494.23			16.65
33 05 63 00-0405	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	893.67			25.91
33 05 63 00-0406	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	925.54			29.61
 33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)						
33 05 63 00-0408	EA	30" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,448.42			33.31
33 05 63 00-0409	EA	36" x 60", 5,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,101.51			33.31
33 05 63 00-0410	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,214.79			49.35
33 05 63 00-0411	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,613.47			49.35
33 05 63 00-0412	EA	30" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,722.65			33.31
33 05 63 00-0413	EA	36" x 60", 15,000 Lb. Design Load, Heavy-Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,351.20			33.31
 33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)						
33 05 63 00-0415	EA	24" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	562.28			16.65
33 05 63 00-0416	EA	36" x 36", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,048.88			25.91
33 05 63 00-0417	EA	30" x 48", 8,000 Lb. Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,096.00			49.35
33 05 63 00-0418	EA	6" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	87.31			11.11
33 05 63 00-0419	EA	8" x 8", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	147.48			11.11
33 05 63 00-0420	EA	12" x 12", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	162.69			11.11
33 05 63 00-0421	EA	8" x 18", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	172.77			11.11
33 05 63 00-0422	EA	10" x 15", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	151.08			11.10
33 05 63 00-0423	EA	11" x 20", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	269.30			11.10
33 05 63 00-0424	EA	24" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	755.57			16.65
33 05 63 00-0425	EA	36" x 36", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,397.47			25.91
33 05 63 00-0426	EA	30" x 48", 15,000 Lb. Design Load, Heavy-Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,463.81			49.35
 33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)						
Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).						
33 05 63 00-0428	EA	12" x 12" x 12" Precast Concrete Handholes With Steel Cover	1,095.59			268.00
Note: 8000 To 12000 pound traffic rated top.						
For 15,000 to 22,500 Pound Traffic Rated Top, Add 18.00						
33 05 63 00-0429	EA	12" x 24" x 21" Precast Concrete Handholes With Steel Cover	1,871.20			402.01
Note: 8000 To 12000 pound traffic rated top.						
For 15,000 to 22,500 Pound Traffic Rated Top, Add 114.74						
33 05 63 00-0430	EA	18" x 30" x 18" Precast Concrete Handholes With Steel Cover	2,238.77			536.01
Note: 8000 To 12000 pound traffic rated top.						
For 15,000 to 22,500 Pound Traffic Rated Top, Add 202.83						
33 05 63 00-0431	EA	24" x 24" x 24" Precast Concrete Handholes With Steel Cover	2,338.33			536.01
Note: 8000 To 12000 pound traffic rated top.						
For 15,000 to 22,500 Pound Traffic Rated Top, Add 257.30						

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	2,724.93 310.69	670.01
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	2,889.99 339.16	670.01
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,320.33 397.03	804.00
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,803.57 548.23	938.01
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,811.28 586.35	804.00
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	3,853.51 416.15	804.00
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	825.19 15.00	268.00
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	981.12 15.00	301.50
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover Note: 8000 To 12000 pound traffic rated top. <i>For 15,000 to 22,500 Pound Traffic Rated Top, Add</i>	1,225.95 15.00	335.01

33 05 81 Metallic Castings for Utility Structures (33 05)**33 05 81 00-0001 Manhole Accessories (33 05 81)****33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)**

See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 81 00-0003 EA Cast Iron Manhole Step For New Manholes	91.29	
33 05 81 00-0004 EA Galvanized Steel Manhole Step For New Manholes	71.71	
33 05 81 00-0005 EA Aluminum Manhole Step For New Manholes	99.34	

33 05 81 00-0006 Manhole Covers And Frames (33 05 81)

Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007 Regular Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0008 EA 18" Square, Gray Iron, Manhole Cover With Frame	3,864.39	98.49
<i>For Ductile Iron Castings, Add</i>	2,496.66	
33 05 81 00-0009 EA 18" Diameter, Gray Iron, Manhole Cover With Frame	2,028.99	98.49
<i>For Ductile Iron Castings, Add</i>	1,211.88	
33 05 81 00-0010 EA 24" Diameter, Gray Iron, Manhole Cover With Frame	2,345.23	114.52
<i>For Ductile Iron Castings, Add</i>	1,401.17	
33 05 81 00-0011 EA 24" Square, Gray Iron, Manhole Cover With Frame	3,859.64	127.12
<i>For Ductile Iron Castings, Add</i>	2,434.55	
33 05 81 00-0012 EA 26" Diameter, Gray Iron, Manhole Cover With Frame	3,172.99	137.41
<i>For Ductile Iron Castings, Add</i>	1,931.37	
33 05 81 00-0013 EA 30" Diameter, Gray Iron, Manhole Cover With Frame	3,312.90	143.14
<i>For Ductile Iron Castings, Add</i>	2,018.44	
33 05 81 00-0014 EA 24" Diameter REXUF D400, Ductile Iron Manhole Cover And Frame, County Standard	1,379.53	127.12
<i>For Ductile Iron Castings, Add</i>	698.47	

33 05 81 00-0015 Watertight Type Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0016 EA 20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,262.11	81.31
<i>For Ductile Iron Castings, Add</i>	2,756.94	
33 05 81 00-0017 EA 22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,301.66	81.31
<i>For Ductile Iron Castings, Add</i>	2,765.97	
33 05 81 00-0018 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame	4,359.16	95.05
<i>For Ductile Iron Castings, Add</i>	2,784.22	
33 05 81 00-0019 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame	5,237.18	106.50
<i>For Ductile Iron Castings, Add</i>	3,376.30	
33 05 81 00-0020 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame	6,123.39	108.79
<i>For Ductile Iron Castings, Add</i>	3,985.79	
33 05 81 00-0021 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame	6,464.14	111.08
<i>For Ductile Iron Castings, Add</i>	4,220.38	
33 05 81 00-0022 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame	6,768.57	114.52
<i>For Ductile Iron Castings, Add</i>	4,429.38	

33 05 81 00-0023 Aluminum Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0024 EA 12" Square Aluminum Manhole Cover With Frame	1,210.32	32.19
33 05 81 00-0025 EA 18" Square Aluminum Manhole Cover With Frame	2,223.41	35.64
33 05 81 00-0026 EA 24" Square Aluminum Manhole Cover With Frame	3,193.58	41.38



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Metallic Castings for Utility Structures	33 05 81	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 81 00-0027	Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006) Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0028	EA Removal And Reinstallation Of Manhole Cover And Frame	459.13	
33 05 81 00-0029	Adjust Frame And Cover To Grade (Monterey County) (33 05 81 00-0006)		
33 05 81 00-0030	EA Adjust Frame And Cover To Grade (Monterey County)	748.22	
33 05 83 Non-Metallic Accessories for Utility Structures (33 05)			
33 05 83 00-0001	Manhole Accessories (33 05 83)		
33 05 83 00-0002	Steps For Cast-In-Place Manholes (33 05 83 00-0001) See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 83 00-0003	EA Polypropylene Manhole Step For New Manholes	55.08	
33 05 83 00-0004	Rainguard Inflow Protectors (33 05 83)		
33 05 83 00-0005	EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	143.90	23.63
33 05 83 00-0006	EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	168.11	23.63
33 05 83 00-0007	EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	200.96	28.35
33 05 83 00-0008	EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	216.26	28.35
33 05 83 00-0009	EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	269.25	33.07
33 05 83 00-0010	EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	288.03	33.07
33 05 84 Accessories for Utility Structures (33 05)			
See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.			
33 05 84 00-0001	Manhole Accessories (33 05 84)		
33 05 84 00-0002	Precast Concrete Manhole Tops (33 05 84 00-0001)		
33 05 84 00-0003	Precast Concrete Manhole Slab Tops (33 05 84 00-0002)		
33 05 84 00-0004	EA 3' Diameter x 8" Thick Precast Manhole Top Slab	647.99	85.89
33 05 84 00-0005	EA 4' Diameter x 8" Thick Precast Manhole Top Slab	913.18	92.76
33 05 84 00-0006	EA 5' Diameter x 8" Thick Precast Manhole Top Slab	1,242.42	99.63
33 05 84 00-0007	EA 6' Diameter x 8" Thick Precast Manhole Top Slab	1,490.88	106.50
33 05 84 00-0008	EA 7' Diameter x 8" Thick Precast Manhole Top Slab	2,282.18	114.52
33 05 84 00-0009	EA 8' Diameter x 10" Thick Precast Manhole Top Slab	3,054.50	123.10
33 05 84 00-0010	EA 10' Diameter x 12" Thick Precast Manhole Top Slab	5,223.88	131.69
33 05 84 00-0011	EA 12' Diameter x 12" Thick Precast Manhole Top Slab	7,424.87	141.71
33 05 84 00-0012	Precast Concrete Manhole Cone Tops (33 05 84 00-0002)		
33 05 84 00-0013	EA 3' Diameter x 8" Thick Precast Manhole Top Cone	1,038.30	107.36
33 05 84 00-0014	EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	1,156.95	111.65
33 05 84 00-0015	EA 4' Diameter x 8" Thick Precast Manhole Top Cone	1,275.63	115.94
33 05 84 00-0016	EA 5' Diameter x 8" Thick Precast Manhole Top Cone	1,507.20	123.10
33 05 84 00-0017	EA 6' Diameter x 8" Thick Precast Manhole Top Cone	1,744.54	131.69
33 05 84 00-0018	EA 7' Diameter x 8" Thick Precast Manhole Top Cone	2,782.02	140.28
33 05 84 00-0019	EA 8' Diameter x 10" Thick Precast Manhole Top Cone	3,499.52	154.59
33 05 84 00-0020	Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)		
33 05 84 00-0021	EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,367.93	99.63
33 05 84 00-0022	EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,766.59	106.50
33 05 84 00-0023	EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	2,340.31	106.50
33 05 84 00-0024	EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	3,718.80	106.50
33 05 84 00-0025	EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	4,791.23	106.50
33 05 84 00-0026	EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	6,950.80	106.50
33 05 84 00-0027	Pipe To Manhole Connector (33 05 84 00-0001)		
33 05 84 00-0028	Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0027)		
33 05 84 00-0029	EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	95.06	
33 05 84 00-0030	EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	139.17	
33 05 84 00-0031	EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	156.96	
33 05 84 00-0032	EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	236.19	
33 05 84 00-0033	EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	329.56	
33 05 84 00-0034	EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	436.67	
33 05 84 00-0035	EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	783.61	
33 05 84 00-0036	EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,087.54	
33 05 84 00-0037	EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	1,711.94	
33 05 84 00-0038	EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	2,016.83	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 84 00-0039	Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout (33 05 84 00-0027) Note: Fernco CMA.		
33 05 84 00-0040	EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	117.90	
33 05 84 00-0041	EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	163.92	
33 05 84 00-0042	EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	207.18	
33 05 84 00-0043	EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	250.23	
33 05 84 00-0044	EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	290.24	
33 05 84 00-0045	Brick And Grout Pipe To Manhole Connector (33 05 84 00-0027)		
33 05 84 00-0046	EA Seal Gap Between Pipe And Structure With Brick And Grout.....	299.25	
33 05 84 00-0047	Inverts For Manholes (33 05 84 00-0001)		
33 05 84 00-0048	EA Single Channel Concrete Invert For Manholes.....	467.93	
33 05 84 00-0049	EA Double Channel Concrete Invert For Manholes.....	676.56	
33 05 84 00-0050	EA Triple Channel Concrete Invert For Manholes.....	910.60	
33 05 84 00-0051	EA Quad Channel Concrete Invert For Manholes.....	1,144.58	
33 05 84 00-0052	EA Single Channel Brick Invert For Manholes.....	704.35	
33 05 84 00-0053	EA Double Channel Brick Invert For Manholes.....	1,054.36	
33 05 84 00-0054	EA Triple Channel Brick Invert For Manholes.....	1,410.37	
33 05 84 00-0055	EA Quad Channel Brick Invert For Manholes.....	1,762.46	
33 05 84 00-0056	Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0057	Polyurethane Protective Coating For New Manholes (33 05 84 00-0056)		
33 05 84 00-0058	VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	219.52	
	For 80 Mil Material, Add	32.81	
	For 100 Mil Material, Add	65.61	
	For 125 Mil Material, Add	103.69	
	For 150 Mil Material, Add	141.77	
	For 200 Mil Material, Add	210.11	
	For 2 To 5 Manholes, Deduct	-14.88	
	For 6 To 10 Manholes, Deduct	-24.28	
	For >10 Manholes, Deduct	-48.55	
33 05 84 00-0059	VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	264.86	
	For 80 Mil Material, Add	38.95	
	For 100 Mil Material, Add	77.89	
	For 125 Mil Material, Add	123.00	
	For 150 Mil Material, Add	168.10	
	For 200 Mil Material, Add	248.76	
	For 2 To 5 Manholes, Deduct	-18.02	
	For 6 To 10 Manholes, Deduct	-29.41	
	For >10 Manholes, Deduct	-58.83	
33 05 84 00-0060	VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....	292.69	
	For 80 Mil Material, Add	43.74	
	For 100 Mil Material, Add	87.48	
	For 125 Mil Material, Add	138.25	
	For 150 Mil Material, Add	189.02	
	For 200 Mil Material, Add	280.13	
	For 2 To 5 Manholes, Deduct	-19.84	
	For 6 To 10 Manholes, Deduct	-32.37	
	For >10 Manholes, Deduct	-64.74	
33 05 84 00-0061	VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....	365.94	
	For 80 Mil Material, Add	54.70	
	For 100 Mil Material, Add	109.40	
	For 125 Mil Material, Add	172.89	
	For 150 Mil Material, Add	236.38	
	For 200 Mil Material, Add	350.34	
	For 2 To 5 Manholes, Deduct	-24.81	
	For 6 To 10 Manholes, Deduct	-40.47	
	For >10 Manholes, Deduct	-80.94	
33 05 84 00-0062	VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....	425.22	
	For 80 Mil Material, Add	64.59	
	For 100 Mil Material, Add	129.18	
	For 125 Mil Material, Add	204.32	
	For 150 Mil Material, Add	279.46	
	For 200 Mil Material, Add	414.81	
	For 2 To 5 Manholes, Deduct	-28.73	
	For 6 To 10 Manholes, Deduct	-46.82	
	For >10 Manholes, Deduct	-93.65	
33 05 84 00-0063	Polyvinyl Chloride (PVC) Liner (33 05 84 00-0056)		
	Note: For new manholes and shop applied.		
33 05 84 00-0064	VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	297.43	
33 05 84 00-0065	VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	364.59	
33 05 84 00-0066	VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	444.92	
33 05 84 00-0067	VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	558.74	
33 05 84 00-0068	VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	672.56	
33 05 84 00-0069	SF Polyvinyl Chloride (PVC) Liner At Structures.....	45.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0070 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0071 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0070)		
33 05 84 00-0072 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	97.16	
33 05 84 00-0073 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	106.29	
33 05 84 00-0074 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	115.41	
33 05 84 00-0075 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	124.54	
33 05 84 00-0076 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0070)		
33 05 84 00-0077 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	109.12	
33 05 84 00-0078 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	119.49	
33 05 84 00-0079 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	129.86	
33 05 84 00-0080 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	140.23	
33 05 84 00-0081 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0070)		
33 05 84 00-0082 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	120.81	
33 05 84 00-0083 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	132.37	
33 05 84 00-0084 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	143.94	
33 05 84 00-0085 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	155.50	
33 05 84 00-0086 Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0087 Bentonite Collar At Manhole Connections (33 05 84 00-0086)		
33 05 84 00-0088 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	163.44	
33 05 84 00-0089 EA >12" To 21", Bentonite Collar At Manhole Connection	258.92	
33 05 84 00-0090 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	410.41	
33 05 84 00-0091 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	959.46	
33 05 84 00-0092 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,496.61	
33 05 84 00-0093 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,717.77	
33 05 84 00-0094 Expanded Polypropylene (EPP) Finish Ring (33 05 84 00-0001)		
33 05 84 00-0095 EA 34" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	110.78	
33 05 84 00-0096 EA 34" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	113.14	
33 05 84 00-0097 EA 34" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	120.06	
33 05 84 00-0098 EA 34" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	126.98	
33 05 84 00-0099 EA 34" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	133.90	
33 05 84 00-0100 EA 34" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	140.82	
33 05 84 00-0101 EA 34" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	153.21	
33 05 84 00-0102 EA 34" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	123.73	
33 05 84 00-0103 EA 36" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	116.77	
33 05 84 00-0104 EA 36" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	119.30	
33 05 84 00-0105 EA 36" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	126.70	
33 05 84 00-0106 EA 36" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	134.11	
33 05 84 00-0107 EA 36" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	141.51	
33 05 84 00-0108 EA 36" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	148.91	
33 05 84 00-0109 EA 36" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	162.16	
33 05 84 00-0110 EA 36" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	130.63	
33 05 84 00-0111 EA 40" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	130.16	
33 05 84 00-0112 EA 40" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	133.25	
33 05 84 00-0113 EA 40" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	142.49	
33 05 84 00-0114 EA 40" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	151.74	
33 05 84 00-0115 EA 40" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	159.80	
33 05 84 00-0116 EA 40" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	167.86	
33 05 84 00-0117 EA 40" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	181.47	
33 05 84 00-0118 EA 40" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	147.08	
33 05 84 00-0119 EA 46" Diameter OD x 3/4" Height Expanded Polypropylene (EPP) Finish Ring	144.91	
33 05 84 00-0120 EA 46" Diameter OD x 1" Height Expanded Polypropylene (EPP) Finish Ring	148.63	
33 05 84 00-0121 EA 46" Diameter OD x 1-1/4" Height Expanded Polypropylene (EPP) Finish Ring	159.94	
33 05 84 00-0122 EA 46" Diameter OD x 1-1/2" Height Expanded Polypropylene (EPP) Finish Ring	171.26	
33 05 84 00-0123 EA 46" Diameter OD x 1-3/4" Height Expanded Polypropylene (EPP) Finish Ring	180.06	
33 05 84 00-0124 EA 46" Diameter OD x 2" Height Expanded Polypropylene (EPP) Finish Ring	188.86	
33 05 84 00-0125 EA 46" Diameter OD x 2-1/2" Height Expanded Polypropylene (EPP) Finish Ring	202.91	
33 05 84 00-0126 EA 46" Diameter OD x 3/4" To 1-3/4" Angle Height Expanded Polypropylene (EPP) Finish Ring	165.29	
33 05 84 00-0127 Expanded Polypropylene (EPP) Grade Ring (33 05 84 00-0001)		
33 05 84 00-0128 EA 34" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	140.82	
33 05 84 00-0129 EA 34" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	195.06	
33 05 84 00-0130 EA 34" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	244.66	
33 05 84 00-0131 EA 36" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	148.91	
33 05 84 00-0132 EA 36" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	206.91	
33 05 84 00-0133 EA 36" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring	259.96	
33 05 84 00-0134 EA 40" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring	167.86	
33 05 84 00-0135 EA 40" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring	231.68	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 84 00-0136	EA	40" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	290.53
33 05 84 00-0137	EA	46" Diameter OD x 2" Height, Expanded Polypropylene (EPP) Grade Ring.....	188.86
33 05 84 00-0138	EA	46" Diameter OD x 4" Height, Expanded Polypropylene (EPP) Grade Ring.....	259.28
33 05 84 00-0139	EA	46" Diameter OD x 6" Height, Expanded Polypropylene (EPP) Grade Ring.....	324.66

33 05 84 00-0140 Waste Water Collection System Taps (33 05 84)
Note: For tapping existing structures only. Includes grout.

33 05 84 00-0141 Brick Manhole Taps (33 05 84 00-0140)

33 05 84 00-0142	EA	4" Tap In 6" Brick Manhole	593.34
33 05 84 00-0143	EA	6" Tap In 6" Brick Manhole	662.74
33 05 84 00-0144	EA	8" Tap In 6" Brick Manhole	730.90
33 05 84 00-0145	EA	10" Tap In 6" Brick Manhole	798.92
33 05 84 00-0146	EA	12" Tap In 6" Brick Manhole	881.72
33 05 84 00-0147	EA	15" Tap In 6" Brick Manhole	949.60

33 05 84 00-0148 Precast Concrete Manhole Tap (33 05 84 00-0140)

33 05 84 00-0149	EA	4" Tap In Existing Precast Concrete Manhole.....	867.18
33 05 84 00-0150	EA	6" Tap In Existing Precast Concrete Manhole.....	971.27
33 05 84 00-0151	EA	8" Tap In Existing Precast Concrete Manhole.....	1,086.38
33 05 84 00-0152	EA	10" Tap In Existing Precast Concrete Manhole.....	1,188.42
33 05 84 00-0153	EA	12" Tap In Existing Precast Concrete Manhole.....	1,290.25
33 05 84 00-0154	EA	15" Tap In Existing Precast Concrete Manhole.....	1,394.55
33 05 84 00-0155	EA	18" Tap In Existing Precast Concrete Manhole.....	1,606.13
33 05 84 00-0156	EA	24" Tap In Existing Precast Concrete Manhole.....	2,065.30

33 05 97 Identification and Signage for Utilities (33 05)

33 05 97 16 Markers for Utility Identification (33 05 97)

33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)

33 05 97 16-0002	EA	Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square.....	50.62
33 05 97 16-0003	EA	Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square.....	54.21
33 05 97 16-0004	EA	Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square.....	61.40
33 05 97 16-0005	EA	Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square.....	65.00
33 05 97 16-0006	EA	Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square.....	68.59
33 05 97 16-0007	EA	Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square.....	58.70
33 05 97 16-0008	EA	Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	51.52
33 05 97 16-0009	EA	Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	55.11
33 05 97 16-0010	EA	Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	55.11
33 05 97 16-0011	EA	Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	58.70
33 05 97 16-0012	EA	Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	62.30
33 05 97 16-0013	EA	Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square.....	65.89
33 05 97 16-0014	EA	Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	98.25
33 05 97 16-0015	EA	Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	65.00
33 05 97 16-0016	EA	Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	102.74
33 05 97 16-0017	EA	Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	98.25
33 05 97 16-0018	EA	Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	101.84
33 05 97 16-0019	EA	Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square.....	102.74
33 05 97 16-0020	EA	Relocate Delineator	63.75

33 05 97 16-0021 Reference Markers (33 05 97 16)

33 05 97 16-0022	EA	Reference Marker, 4' Mounting Height	92.44
33 05 97 16-0023	EA	Reference Marker, 7' Mounting Height	113.87
33 05 97 16-0024	EA	Reference Marker, Band Or Bracket Mounted	107.62
33 05 97 16-0025	EA	Reference Marker, Furnish Panel Only	91.97
33 05 97 16-0026	EA	Relocate Reference Marker	63.75

33 05 97 16-0027 Object Markers (33 05 97 16)

33 05 97 16-0028	EA	Object Marker, Type L-1	98.02
33 05 97 16-0029	EA	Object Marker, Type L-2	90.28
33 05 97 16-0030	EA	Object Marker, Type K-1	104.22
33 05 97 16-0031	EA	Object Marker, Type K-2	96.47
33 05 97 16-0032	EA	Object Marker, Type Q.....	65.48

33 10 Water Utilities (33)

33 11 Groundwater Sources (33 10)



Utilities		33	CS
Water Utilities		33 10	
Groundwater Sources		33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13			Potable Water Supply Wells (33 11)		
33 11 13 00-0001			Drill And Test Water Well (33 11 13)		
33 11 13 00-0002			Drill Hole (33 11 13 00-0001) Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003			Mobilization And Demobilization (33 11 13 00-0002)		
33 11 13 00-0004	EA		Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	1,082.91	
33 11 13 00-0005	EA		>12" To 24" Diameter, Well Drilling Mobilization And Demobilization.....	1,327.60	
33 11 13 00-0006	EA		>24" To 36" Diameter, Well Drilling Mobilization And Demobilization.....	1,991.39	
33 11 13 00-0007			Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002) Note: Excludes well casing, gravel or materials.		
33 11 13 00-0008	LF		Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	25.73	
			For >100 To 250, Add	0.64	
			For >250 To 400, Add	1.29	
			For >400 To 600, Add	1.93	
			For >600 To 750, Add	2.57	
			For >750, Add	3.22	
33 11 13 00-0009	LF		8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	30.54	
			For >100 To 250, Add	0.76	
			For >250 To 400, Add	1.53	
			For >400 To 600, Add	2.29	
			For >600 To 750, Add	3.05	
			For >750, Add	3.82	
33 11 13 00-0010	LF		10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	40.82	
			For >100 To 250, Add	1.02	
			For >250 To 400, Add	2.04	
			For >400 To 600, Add	3.06	
			For >600 To 750, Add	4.08	
			For >750, Add	5.10	
33 11 13 00-0011	LF		12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	63.89	
			For >100 To 250, Add	1.60	
			For >250 To 400, Add	3.19	
			For >400 To 600, Add	4.79	
			For >600 To 750, Add	6.39	
			For >750, Add	7.99	
33 11 13 00-0012	LF		14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	91.94	
			For >100 To 250, Add	2.30	
			For >250 To 400, Add	4.60	
			For >400 To 600, Add	6.90	
			For >600 To 750, Add	9.19	
			For >750, Add	11.49	
33 11 13 00-0013	LF		16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	120.15	
			For >100 To 250, Add	3.00	
			For >250 To 400, Add	6.01	
			For >400 To 600, Add	9.01	
			For >600 To 750, Add	12.02	
			For >750, Add	15.02	
33 11 13 00-0014	LF		18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	142.72	
			For >100 To 250, Add	3.57	
			For >250 To 400, Add	7.14	
			For >400 To 600, Add	10.70	
			For >600 To 750, Add	14.27	
			For >750, Add	17.84	
33 11 13 00-0015	LF		20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	165.95	
			For >100 To 250, Add	4.15	
			For >250 To 400, Add	8.30	
			For >400 To 600, Add	12.45	
			For >600 To 750, Add	16.60	
			For >750, Add	20.74	
33 11 13 00-0016	LF		22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	195.00	
			For >100 To 250, Add	4.88	
			For >250 To 400, Add	9.75	
			For >400 To 600, Add	14.63	
			For >600 To 750, Add	19.50	
			For >750, Add	24.38	
33 11 13 00-0017	LF		24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	229.84	
			For >100 To 250, Add	5.75	
			For >250 To 400, Add	11.49	
			For >400 To 600, Add	17.24	
			For >600 To 750, Add	22.98	
			For >750, Add	28.73	
33 11 13 00-0018	LF		26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	248.42	
			For >100 To 250, Add	6.21	
			For >250 To 400, Add	12.42	
			For >400 To 600, Add	18.63	
			For >600 To 750, Add	24.84	
			For >750, Add	31.05	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0019	LF		28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	273.32	
			For>100 To 250, Add	6.83	
			For>250 To 400, Add	13.67	
			For>400 To 600, Add	20.50	
			For>600 To 750, Add	27.33	
			For>750, Add	34.17	
33 11 13 00-0020	LF		30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	299.37	
			For>100 To 250, Add	7.48	
			For>250 To 400, Add	14.97	
			For>400 To 600, Add	22.45	
			For>600 To 750, Add	29.94	
			For>750, Add	37.42	
33 11 13 00-0021	LF		36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	372.39	
			For>100 To 250, Add	9.31	
			For>250 To 400, Add	18.62	
			For>400 To 600, Add	27.93	
			For>600 To 750, Add	37.24	
			For>750, Add	46.55	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)					
33 11 13 00-0023	LF		6" Water Well Hole Drilled In Sedimentary Rock	52.44	
			For>100 To 250, Add	1.31	
			For>250 To 400, Add	2.62	
			For>400 To 600, Add	3.93	
			For>600 To 750, Add	5.24	
			For>750, Add	6.56	
33 11 13 00-0024	LF		8" Water Well Hole Drilled In Sedimentary Rock	61.07	
			For>100 To 250, Add	1.53	
			For>250 To 400, Add	3.05	
			For>400 To 600, Add	4.58	
			For>600 To 750, Add	6.11	
			For>750, Add	7.63	
33 11 13 00-0025	LF		10" Water Well Hole Drilled In Sedimentary Rock	97.78	
			For>100 To 250, Add	2.44	
			For>250 To 400, Add	4.89	
			For>400 To 600, Add	7.33	
			For>600 To 750, Add	9.78	
			For>750, Add	12.22	
33 11 13 00-0026	LF		12" Water Well Hole Drilled In Sedimentary Rock	127.84	
			For>100 To 250, Add	3.20	
			For>250 To 400, Add	6.39	
			For>400 To 600, Add	9.59	
			For>600 To 750, Add	12.78	
			For>750, Add	15.98	
33 11 13 00-0027	LF		14" Water Well Hole Drilled In Sedimentary Rock	184.00	
			For>100 To 250, Add	4.60	
			For>250 To 400, Add	9.20	
			For>400 To 600, Add	13.80	
			For>600 To 750, Add	18.40	
			For>750, Add	23.00	
33 11 13 00-0028	LF		16" Water Well Hole Drilled In Sedimentary Rock	240.16	
			For>100 To 250, Add	6.00	
			For>250 To 400, Add	12.01	
			For>400 To 600, Add	18.01	
			For>600 To 750, Add	24.02	
			For>750, Add	30.02	
33 11 13 00-0029	LF		18" Water Well Hole Drilled In Sedimentary Rock	285.56	
			For>100 To 250, Add	7.14	
			For>250 To 400, Add	14.28	
			For>400 To 600, Add	21.42	
			For>600 To 750, Add	28.56	
			For>750, Add	35.70	
33 11 13 00-0030	LF		20" Water Well Hole Drilled In Sedimentary Rock	331.37	
			For>100 To 250, Add	8.28	
			For>250 To 400, Add	16.57	
			For>400 To 600, Add	24.85	
			For>600 To 750, Add	33.14	
			For>750, Add	41.42	
33 11 13 00-0031	LF		22" Water Well Hole Drilled In Sedimentary Rock	390.31	
			For>100 To 250, Add	9.76	
			For>250 To 400, Add	19.52	
			For>400 To 600, Add	29.27	
			For>600 To 750, Add	39.03	
			For>750, Add	48.79	
33 11 13 00-0032	LF		24" Water Well Hole Drilled In Sedimentary Rock	450.85	
			For>100 To 250, Add	11.27	
			For>250 To 400, Add	22.54	
			For>400 To 600, Add	33.81	
			For>600 To 750, Add	45.09	
			For>750, Add	56.36	



Utilities		33	CS
Water Utilities		33 10	
Groundwater Sources		33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0033	LF		26" Water Well Hole Drilled In Sedimentary Rock	496.85	
			For >100 To 250, Add	12.42	
			For >250 To 400, Add	24.64	
			For >400 To 600, Add	37.26	
			For >600 To 750, Add	49.69	
			For >750, Add	62.11	
33 11 13 00-0034	LF		28" Water Well Hole Drilled In Sedimentary Rock	546.64	
			For >100 To 250, Add	13.67	
			For >250 To 400, Add	27.33	
			For >400 To 600, Add	41.00	
			For >600 To 750, Add	54.66	
			For >750, Add	68.33	
33 11 13 00-0035	LF		30" Water Well Hole Drilled In Sedimentary Rock	598.75	
			For >100 To 250, Add	14.97	
			For >250 To 400, Add	29.94	
			For >400 To 600, Add	44.91	
			For >600 To 750, Add	59.88	
			For >750, Add	74.84	
33 11 13 00-0036	LF		36" Water Well Hole Drilled In Sedimentary Rock	744.78	
			For >100 To 250, Add	18.62	
			For >250 To 400, Add	37.24	
			For >400 To 600, Add	55.86	
			For >600 To 750, Add	74.48	
			For >750, Add	93.10	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)					
33 11 13 00-0038	LF		6" Water Well Hole Drilled In Crystalline Rock.....	107.87	
			For >100 To 250, Add	2.70	
			For >250 To 400, Add	5.39	
			For >400 To 600, Add	8.09	
			For >600 To 750, Add	10.79	
			For >750, Add	13.48	
33 11 13 00-0039	LF		8" Water Well Hole Drilled In Crystalline Rock.....	124.46	
			For >100 To 250, Add	3.11	
			For >250 To 400, Add	6.22	
			For >400 To 600, Add	9.33	
			For >600 To 750, Add	12.45	
			For >750, Add	15.56	
33 11 13 00-0040	LF		10" Water Well Hole Drilled In Crystalline Rock.....	142.72	
			For >100 To 250, Add	3.57	
			For >250 To 400, Add	7.14	
			For >400 To 600, Add	10.70	
			For >600 To 750, Add	14.27	
			For >750, Add	17.84	
33 11 13 00-0041	LF		12" Water Well Hole Drilled In Crystalline Rock.....	180.88	
			For >100 To 250, Add	4.52	
			For >250 To 400, Add	9.04	
			For >400 To 600, Add	13.57	
			For >600 To 750, Add	18.09	
			For >750, Add	22.61	
33 11 13 00-0042	LF		14" Water Well Hole Drilled In Crystalline Rock.....	233.99	
			For >100 To 250, Add	5.85	
			For >250 To 400, Add	11.70	
			For >400 To 600, Add	17.55	
			For >600 To 750, Add	23.40	
			For >750, Add	29.25	
33 11 13 00-0043	LF		16" Water Well Hole Drilled In Crystalline Rock.....	340.20	
			For >100 To 250, Add	8.51	
			For >250 To 400, Add	17.01	
			For >400 To 600, Add	25.52	
			For >600 To 750, Add	34.02	
			For >750, Add	42.53	
33 11 13 00-0044	LF		18" Water Well Hole Drilled In Crystalline Rock.....	404.92	
			For >100 To 250, Add	10.12	
			For >250 To 400, Add	20.25	
			For >400 To 600, Add	30.37	
			For >600 To 750, Add	40.49	
			For >750, Add	50.62	
33 11 13 00-0045	LF		20" Water Well Hole Drilled In Crystalline Rock.....	469.64	
			For >100 To 250, Add	11.74	
			For >250 To 400, Add	23.48	
			For >400 To 600, Add	35.22	
			For >600 To 750, Add	46.96	
			For >750, Add	58.71	
33 11 13 00-0046	LF		22" Water Well Hole Drilled In Crystalline Rock.....	552.62	
			For >100 To 250, Add	13.82	
			For >250 To 400, Add	27.63	
			For >400 To 600, Add	41.45	
			For >600 To 750, Add	55.26	
			For >750, Add	69.08	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 11 13 00-0047	LF	24" Water Well Hole Drilled In Crystalline Rock.....	638.91	
		For >100 To 250, Add	15.97	
		For >250 To 400, Add	31.95	
		For >400 To 600, Add	47.92	
		For >600 To 750, Add	63.89	
		For >750, Add	79.86	
33 11 13 00-0048		Furnish And Install Casing (33 11 13 00-0001)		
		Note: Excludes drilling of hole.		
33 11 13 00-0049		Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050	LF	6" Diameter, Steel Well Casing, Flush.....	45.54	
		For >100 To 250, Deduct	-1.37	
		For >250 To 400, Deduct	-2.51	
		For >400 To 600, Deduct	-3.76	
		For >600 To 750, Deduct	-5.02	
		For >750, Deduct	-6.57	
33 11 13 00-0051	LF	8" Diameter, Steel Well Casing, Flush.....	56.61	
		For >100 To 250, Deduct	-1.70	
		For >250 To 400, Deduct	-3.12	
		For >400 To 600, Deduct	-4.68	
		For >600 To 750, Deduct	-6.24	
		For >750, Deduct	-8.17	
33 11 13 00-0052	LF	10" Diameter, Steel Well Casing, Flush.....	83.79	
		For >100 To 250, Deduct	-2.44	
		For >250 To 400, Deduct	-4.54	
		For >400 To 600, Deduct	-6.80	
		For >600 To 750, Deduct	-9.07	
		For >750, Deduct	-11.79	
33 11 13 00-0053	LF	12" Diameter, Steel Well Casing, Flush.....	140.54	
		For >100 To 250, Deduct	-3.93	
		For >250 To 400, Deduct	-7.44	
		For >400 To 600, Deduct	-11.16	
		For >600 To 750, Deduct	-14.89	
		For >750, Deduct	-19.15	
33 11 13 00-0054	LF	14" Diameter, Steel Well Casing, Flush.....	157.66	
		For >100 To 250, Deduct	-4.52	
		For >250 To 400, Deduct	-8.46	
		For >400 To 600, Deduct	-12.69	
		For >600 To 750, Deduct	-16.92	
		For >750, Deduct	-21.90	
33 11 13 00-0055	LF	16" Diameter, Steel Well Casing, Flush.....	185.11	
		For >100 To 250, Deduct	-5.34	
		For >250 To 400, Deduct	-9.97	
		For >400 To 600, Deduct	-14.96	
		For >600 To 750, Deduct	-19.94	
		For >750, Deduct	-25.86	
33 11 13 00-0056	LF	18" Diameter, Steel Well Casing, Flush.....	211.22	
		For >100 To 250, Deduct	-6.18	
		For >250 To 400, Deduct	-11.46	
		For >400 To 600, Deduct	-17.19	
		For >600 To 750, Deduct	-22.93	
		For >750, Deduct	-29.83	
33 11 13 00-0057	LF	20" Diameter, Steel Well Casing, Flush.....	240.85	
		For >100 To 250, Deduct	-7.13	
		For >250 To 400, Deduct	-13.15	
		For >400 To 600, Deduct	-19.73	
		For >600 To 750, Deduct	-26.30	
		For >750, Deduct	-34.32	
33 11 13 00-0058	LF	24" Diameter, Steel Well Casing, Flush.....	281.48	
		For >100 To 250, Deduct	-8.29	
		For >250 To 400, Deduct	-15.32	
		For >400 To 600, Deduct	-22.98	
		For >600 To 750, Deduct	-30.65	
		For >750, Deduct	-39.93	
33 11 13 00-0059	LB	Steel Well Casing, Furnish And Install.....	1.48	
		For >100 To 250, Deduct	-0.05	
		For >250 To 400, Deduct	-0.09	
		For >400 To 600, Deduct	-0.14	
		For >600 To 750, Deduct	-0.18	
		For >750, Deduct	-0.25	
33 11 13 00-0060		Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)		
33 11 13 00-0061	LF	6" Diameter, Stainless Steel Well Casing, Flush.....	65.62	
		For >100 To 250, Deduct	-1.87	
		For >250 To 400, Deduct	-3.51	
		For >400 To 600, Deduct	-5.27	
		For >600 To 750, Deduct	-7.02	
		For >750, Deduct	-9.08	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 11 13 00-0062	LF 8" Diameter, Stainless Steel Well Casing, Flush	97.87		
	For >100 To 250, Deduct	-2.74		
	For >250 To 400, Deduct	-5.18		
	For >400 To 600, Deduct	-7.77		
	For >600 To 750, Deduct	-10.37		
	For >750, Deduct	-13.33		
33 11 13 00-0063	LF 10" Diameter, Stainless Steel Well Casing, Flush	136.34		
	For >100 To 250, Deduct	-3.78		
	For >250 To 400, Deduct	-7.19		
	For >400 To 600, Deduct	-10.78		
	For >600 To 750, Deduct	-14.37		
	For >750, Deduct	-18.45		
33 11 13 00-0064	LF 12" Diameter, Stainless Steel Well Casing, Flush	158.66		
	For >100 To 250, Deduct	-4.41		
	For >250 To 400, Deduct	-8.37		
	For >400 To 600, Deduct	-12.56		
	For >600 To 750, Deduct	-16.74		
	For >750, Deduct	-21.50		
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)				
33 11 13 00-0066	LF 10" Diameter, Stainless Steel Well Casing, Welded	147.44		
	For >100 To 250, Deduct	-4.33		
	For >250 To 400, Deduct	-8.02		
	For >400 To 600, Deduct	-12.03		
	For >600 To 750, Deduct	-16.04		
	For >750, Deduct	-20.89		
33 11 13 00-0067	LF 12" Diameter, Stainless Steel Well Casing, Welded	170.69		
	For >100 To 250, Deduct	-5.01		
	For >250 To 400, Deduct	-9.27		
	For >400 To 600, Deduct	-13.91		
	For >600 To 750, Deduct	-18.55		
	For >750, Deduct	-24.15		
33 11 13 00-0068	LF 14" Diameter, Stainless Steel Well Casing, Welded	204.46		
	For >100 To 250, Deduct	-5.94		
	For >250 To 400, Deduct	-11.06		
	For >400 To 600, Deduct	-16.58		
	For >600 To 750, Deduct	-22.11		
	For >750, Deduct	-28.72		
33 11 13 00-0069	LF 16" Diameter, Stainless Steel Well Casing, Welded	234.05		
	For >100 To 250, Deduct	-6.80		
	For >250 To 400, Deduct	-12.65		
	For >400 To 600, Deduct	-18.98		
	For >600 To 750, Deduct	-25.30		
	For >750, Deduct	-32.86		
33 11 13 00-0070	LF 18" Diameter, Stainless Steel Well Casing, Welded	258.91		
	For >100 To 250, Deduct	-7.56		
	For >250 To 400, Deduct	-14.03		
	For >400 To 600, Deduct	-21.05		
	For >600 To 750, Deduct	-28.06		
	For >750, Deduct	-36.49		
33 11 13 00-0071	LF 20" Diameter, Stainless Steel Well Casing, Welded	337.79		
	For >100 To 250, Deduct	-9.74		
	For >250 To 400, Deduct	-18.18		
	For >400 To 600, Deduct	-27.28		
	For >600 To 750, Deduct	-36.37		
	For >750, Deduct	-47.14		
33 11 13 00-0072	LF 24" Diameter, Stainless Steel Well Casing, Welded	444.05		
	For >100 To 250, Deduct	-12.72		
	For >250 To 400, Deduct	-23.82		
	For >400 To 600, Deduct	-35.73		
	For >600 To 750, Deduct	-47.64		
	For >750, Deduct	-61.66		
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)				
33 11 13 00-0074	LF 6" Polyvinyl Chloride (PVC) Well Casing	47.13		
	For >100 To 250, Deduct	-1.36		
	For >250 To 400, Deduct	-2.54		
	For >400 To 600, Deduct	-3.81		
	For >600 To 750, Deduct	-5.08		
	For >750, Deduct	-6.59		
33 11 13 00-0075	LF 8" Polyvinyl Chloride (PVC) Well Casing	74.84		
	For >100 To 250, Deduct	-2.16		
	For >250 To 400, Deduct	-4.03		
	For >400 To 600, Deduct	-6.05		
	For >600 To 750, Deduct	-8.06		
	For >750, Deduct	-10.45		
33 11 13 00-0076	LF 10" Polyvinyl Chloride (PVC) Well Casing	113.12		
	For >100 To 250, Deduct	-3.27		
	For >250 To 400, Deduct	-6.10		
	For >400 To 600, Deduct	-9.14		
	For >600 To 750, Deduct	-12.19		
	For >750, Deduct	-15.81		

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0077	LF		12" Polyvinyl Chloride (PVC) Well Casing	133.49	
			For >100 To 250, Deduct	-3.87	
			For >250 To 400, Deduct	-7.21	
			For >400 To 600, Deduct	-10.81	
			For >600 To 750, Deduct	-14.41	
			For >750, Deduct	-18.71	
33 11 13 00-0078			Furnish And Install Well Screen Assembly (33 11 13 00-0001)		
33 11 13 00-0079			Stainless Steel Well Screen (33 11 13 00-0078)		
33 11 13 00-0080	LF		2" Stainless Steel Well Screen.....	22.24	1.85
			For >100 To 250, Deduct	-0.79	
			For >250 To 400, Deduct	-1.35	
			For >400 To 600, Deduct	-2.02	
			For >600 To 750, Deduct	-2.70	
			For >750, Deduct	-3.68	
33 11 13 00-0081	LF		3" Stainless Steel Well Screen.....	33.99	1.85
			For >100 To 250, Deduct	-1.11	
			For >250 To 400, Deduct	-1.96	
			For >400 To 600, Deduct	-2.93	
			For >600 To 750, Deduct	-3.91	
			For >750, Deduct	-5.22	
33 11 13 00-0082	LF		4" Stainless Steel Well Screen.....	42.72	2.78
			For >100 To 250, Deduct	-1.39	
			For >250 To 400, Deduct	-2.46	
			For >400 To 600, Deduct	-3.69	
			For >600 To 750, Deduct	-4.92	
			For >750, Deduct	-6.57	
33 11 13 00-0083	LF		5" Stainless Steel Well Screen.....	53.74	2.78
			For >100 To 250, Deduct	-1.73	
			For >250 To 400, Deduct	-3.07	
			For >400 To 600, Deduct	-4.61	
			For >600 To 750, Deduct	-6.14	
			For >750, Deduct	-8.18	
33 11 13 00-0084	LF		6" Stainless Steel Well Screen.....	65.02	3.70
			For >100 To 250, Deduct	-2.14	
			For >250 To 400, Deduct	-3.76	
			For >400 To 600, Deduct	-5.65	
			For >600 To 750, Deduct	-7.53	
			For >750, Deduct	-10.08	
33 11 13 00-0085	LF		8" Stainless Steel Well Screen.....	84.72	4.62
			For >100 To 250, Deduct	-2.78	
			For >250 To 400, Deduct	-4.89	
			For >400 To 600, Deduct	-7.34	
			For >600 To 750, Deduct	-9.79	
			For >750, Deduct	-13.09	
33 11 13 00-0086	LF		10" Stainless Steel Well Screen.....	108.08	7.40
			For >100 To 250, Deduct	-3.59	
			For >250 To 400, Deduct	-6.29	
			For >400 To 600, Deduct	-9.44	
			For >600 To 750, Deduct	-12.58	
			For >750, Deduct	-16.88	
33 11 13 00-0087	LF		12" Stainless Steel Well Screen.....	126.75	9.25
			For >100 To 250, Deduct	-4.20	
			For >250 To 400, Deduct	-7.37	
			For >400 To 600, Deduct	-11.06	
			For >600 To 750, Deduct	-14.75	
			For >750, Deduct	-19.78	
33 11 13 00-0088	LF		14" Stainless Steel Well Screen.....	139.75	10.17
			For >100 To 250, Deduct	-4.69	
			For >250 To 400, Deduct	-8.18	
			For >400 To 600, Deduct	-12.27	
			For >600 To 750, Deduct	-16.36	
			For >750, Deduct	-22.00	
33 11 13 00-0089	LF		16" Stainless Steel Well Screen.....	151.81	12.02
			For >100 To 250, Deduct	-5.14	
			For >250 To 400, Deduct	-8.93	
			For >400 To 600, Deduct	-13.40	
			For >600 To 750, Deduct	-17.86	
			For >750, Deduct	-24.07	
33 11 13 00-0090	LF		18" Stainless Steel Well Screen.....	182.68	13.87
			For >100 To 250, Deduct	-6.22	
			For >250 To 400, Deduct	-10.79	
			For >400 To 600, Deduct	-16.18	
			For >600 To 750, Deduct	-21.57	
			For >750, Deduct	-29.11	
33 11 13 00-0091	LF		20" Stainless Steel Well Screen.....	230.33	17.57
			For >100 To 250, Deduct	-7.83	
			For >250 To 400, Deduct	-13.59	
			For >400 To 600, Deduct	-20.39	
			For >600 To 750, Deduct	-27.18	
			For >750, Deduct	-36.68	



Utilities			33	CS
Water Utilities			33 10	
Groundwater Sources			33 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0092	LF	24"	Stainless Steel Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	299.10 -10.20 -17.68 -26.51 -35.35 -47.72	23.12
33 11 13 00-0093	LF	26"	Stainless Steel Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	344.31 -11.69 -20.30 -30.45 -40.60 -54.75	26.82
33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 (33 11 13 00-0078)					
33 11 13 00-0095	LF	1-1/4"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	14.83 -0.54 -0.91 -1.37 -1.83 -2.51 3.16	
33 11 13 00-0096	LF	1-1/2"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	16.88 -0.61 -1.03 -1.54 -2.06 -2.81 3.80	
33 11 13 00-0097	LF	2"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	24.29 -0.94 -1.55 -2.32 -3.09 -4.29 4.43	
33 11 13 00-0098	LF	3"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	34.82 -1.23 -2.10 -3.15 -4.20 -5.71 8.22	
33 11 13 00-0099	LF	4"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	43.82 -1.55 -2.64 -3.96 -5.28 -7.19 10.31	
33 11 13 00-0100	LF	5"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	54.70 -1.90 -3.27 -4.91 -6.54 -8.88 13.28	
33 11 13 00-0101	LF	6"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	61.06 -2.24 -3.77 -5.65 -7.54 -10.35 12.97	
33 11 13 00-0102	LF	8"	Diameter Slotted Polyvinyl Chloride (PVC) Well Screen For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct For Schedule 80, Add	87.25 -3.10 -5.28 -7.92 -10.56 -14.39 20.24	
33 11 13 00-0103 Furnish And Install Gravel Pack Material (33 11 13 00-0001) Note: Quantity is based on 3" space between wall and the casing or well screen.					
33 11 13 00-0104 Artificial Gravel Pack (33 11 13 00-0103) Note: Excludes casing.					
33 11 13 00-0105	LF		Artificial Gravel Pack, 6" Casing, 2" Screen..... For >100 To 250, Deduct For >250 To 400, Deduct For >400 To 600, Deduct For >600 To 750, Deduct For >750, Deduct	19.54 -0.75 -1.24 -1.86 -2.49 -3.45	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 11 13 00-0106	LF	Artificial Gravel Pack, 8" Casing, 2" Screen.....	28.83		
		For >100 To 250, Deduct	-1.14		
		For >250 To 400, Deduct	-1.86		
		For >400 To 600, Deduct	-2.79		
		For >600 To 750, Deduct	-3.72		
		For >750, Deduct	-5.19		
33 11 13 00-0107	LF	Artificial Gravel Pack, 10" Casing, 2" Screen.....	40.16		
		For >100 To 250, Deduct	-1.63		
		For >250 To 400, Deduct	-2.63		
		For >400 To 600, Deduct	-3.94		
		For >600 To 750, Deduct	-5.26		
		For >750, Deduct	-7.38		
33 11 13 00-0108	LF	Artificial Gravel Pack, 12" Casing, 2" Screen.....	51.49		
		For >100 To 250, Deduct	-2.06		
		For >250 To 400, Deduct	-3.35		
		For >400 To 600, Deduct	-5.02		
		For >600 To 750, Deduct	-6.69		
		For >750, Deduct	-9.37		
33 11 13 00-0109	LF	Artificial Gravel Pack, 14" Casing, 2" Screen.....	63.49		
		For >100 To 250, Deduct	-2.51		
		For >250 To 400, Deduct	-4.10		
		For >400 To 600, Deduct	-6.14		
		For >600 To 750, Deduct	-8.19		
		For >750, Deduct	-11.44		
33 11 13 00-0110	LF	Artificial Gravel Pack, 16" Casing, 2" Screen.....	82.22		
		For >100 To 250, Deduct	-3.19		
		For >250 To 400, Deduct	-5.25		
		For >400 To 600, Deduct	-7.87		
		For >600 To 750, Deduct	-10.50		
		For >750, Deduct	-14.60		
33 11 13 00-0111	LF	Artificial Gravel Pack, 18" Casing, 2" Screen.....	94.29		
		For >100 To 250, Deduct	-3.64		
		For >250 To 400, Deduct	-6.00		
		For >400 To 600, Deduct	-9.00		
		For >600 To 750, Deduct	-12.00		
		For >750, Deduct	-16.67		
33 11 13 00-0112	LF	Artificial Gravel Pack, 20" Casing, 2" Screen.....	111.98		
		For >100 To 250, Deduct	-4.37		
		For >250 To 400, Deduct	-7.17		
		For >400 To 600, Deduct	-10.75		
		For >600 To 750, Deduct	-14.34		
		For >750, Deduct	-19.96		
33 11 13 00-0113	LF	Artificial Gravel Pack, 24" Casing, 2" Screen.....	126.68		
		For >100 To 250, Deduct	-4.97		
		For >250 To 400, Deduct	-8.13		
		For >400 To 600, Deduct	-12.20		
		For >600 To 750, Deduct	-16.27		
		For >750, Deduct	-22.68		
33 11 13 00-0114	LF	Artificial Gravel Pack, 26" Casing, 2" Screen.....	136.49		
		For >100 To 250, Deduct	-5.29		
		For >250 To 400, Deduct	-8.71		
		For >400 To 600, Deduct	-13.06		
		For >600 To 750, Deduct	-17.41		
		For >750, Deduct	-24.21		
33 11 13 00-0115	LF	Artificial Gravel Pack, 30" Casing, 2" Screen.....	162.75		
		For >100 To 250, Deduct	-6.38		
		For >250 To 400, Deduct	-10.45		
		For >400 To 600, Deduct	-15.68		
		For >600 To 750, Deduct	-20.90		
		For >750, Deduct	-29.14		
33 11 13 00-0116	LF	Artificial Gravel Pack, 36" Casing, 2" Screen.....	188.25		
		For >100 To 250, Deduct	-7.53		
		For >250 To 400, Deduct	-12.23		
		For >400 To 600, Deduct	-18.35		
		For >600 To 750, Deduct	-24.47		
		For >750, Deduct	-34.25		
33 11 13 00-0117		Develop Well (33 11 13 00-0001)			
		Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.			
33 11 13 00-0118	HR	Develop Well.....	461.71		
33 11 13 00-0119		Pump Test (33 11 13 00-0001)			
		Note: To determine water level and GPM flow rate.			
33 11 13 00-0120	HR	Pump Test Well	408.19		
33 11 13 00-0121		Test Well (33 11 13 00-0001)			
33 11 13 00-0122	VLF	2-1/2" Diameter Test Well	106.90		
33 11 13 00-0123		Surface Seal, Concrete Filled (33 11 13)			
33 11 13 00-0124	SF	Surface Seal Well, Concrete Filled	35.36		



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 11 13 00-0125 Other Water Well (33 11 13)		
33 11 13 00-0126 SF Patch Hole In Well Casing	100.00	
33 11 13 00-0127 SF 1/2" Pressure Grout Well	2.60	
33 11 13 00-0128 SF 1" Pressure Grout Well	4.23	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	5.78	
33 11 13 00-0130 Sterilization Of Well (33 11 13)		
33 11 13 00-0131 EA Well Sterilization, Chlorine	1,671.91	
33 11 13 00-0132 Submersible Well Pumps (33 11 13) Note: Includes pump end, motor and control box.		
33 11 13 00-0133 4" Submersible Well Pumps (33 11 13 00-0132)		
33 11 13 00-0134 Powder Coated Case And Cast Iron Ends (33 11 13 00-0133)		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,483.13	527.94
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,688.92	585.16
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends	1,874.64	650.17
33 11 13 00-0138 Stainless Steel Case And Ends (33 11 13 00-0133)		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,656.01	520.14
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel	1,886.69	585.16
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,113.83	650.17
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,414.37	715.19
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel	2,725.56	780.21
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel	3,340.87	910.24
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel	4,177.59	1,040.28
33 11 13 00-0146 6" Submersible Well Pumps (33 11 13 00-0132)		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,130.55	1,300.35
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel	4,747.03	1,430.38
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel	5,386.02	1,560.41
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel	6,495.08	1,820.49

33 14 Water Utility Transmission and Distribution (33 10)

33 14 11 Water Utility Transmission Piping (33 14)

See CSI section 33 14 13 00-0000 for water utility transmission piping.

33 14 13 Public Water Utility Distribution Piping (33 14)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)

33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)

33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)

Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0484 for bolts and gaskets.

33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)

Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.

33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe.....	95.11	13.94
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	51.81	
For Cement Mortar Lining (CML), Add	7.40	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	39.97	
For Fusion Bonded Epoxy Lining (206N), Add	13.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.55	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.76	
For Class 52, Add	22.37	
For Class 53, Add	40.46	
For Class 54, Add	57.78	
For Class 55, Add	66.34	
For Class 56, Add	74.75	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0005	LF		4", Class 50, Mechanical Joint Ductile Iron Pipe.....	103.80	14.83
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	56.92	
			For Cement Mortar Lining (CML), Add	8.13	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	43.91	
			For Fusion Bonded Epoxy Lining (206N), Add	14.64	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.10	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-5.19	
			For Class 51, Add	11.36	
			For Class 52, Add	24.56	
			For Class 53, Add	44.42	
			For Class 54, Add	63.45	
			For Class 55, Add	72.84	
			For Class 56, Add	82.07	
33 14 13 13-0006	LF		6", Class 50, Mechanical Joint Ductile Iron Pipe.....	111.82	15.57
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	61.80	
			For Cement Mortar Lining (CML), Add	8.83	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	47.67	
			For Fusion Bonded Epoxy Lining (206N), Add	15.89	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.62	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-5.59	
			For Class 51, Add	12.33	
			For Class 52, Add	26.64	
			For Class 53, Add	48.19	
			For Class 54, Add	68.83	
			For Class 55, Add	79.03	
			For Class 56, Add	89.03	
33 14 13 13-0007	LF		8", Class 50, Mechanical Joint Ductile Iron Pipe.....	137.43	16.19
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	79.04	
			For Cement Mortar Lining (CML), Add	11.29	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	60.97	
			For Fusion Bonded Epoxy Lining (206N), Add	20.32	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.47	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-6.87	
			For Class 51, Add	15.70	
			For Class 52, Add	33.93	
			For Class 53, Add	61.43	
			For Class 54, Add	87.76	
			For Class 55, Add	100.72	
			For Class 56, Add	113.45	
33 14 13 13-0008	LF		10", Class 50, Mechanical Joint Ductile Iron Pipe.....	181.83	23.05
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	88.14	
			For Cement Mortar Lining (CML), Add	14.69	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	73.45	
			For Fusion Bonded Epoxy Lining (206N), Add	26.44	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.02	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-9.09	
			For Class 51, Add	20.46	
			For Class 52, Add	44.22	
			For Class 53, Add	80.03	
			For Class 54, Add	114.33	
			For Class 55, Add	131.23	
			For Class 56, Add	147.83	
33 14 13 13-0009	LF		12", Class 50, Mechanical Joint Ductile Iron Pipe.....	226.43	25.62
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	93.81	
			For Cement Mortar Lining (CML), Add	18.76	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	75.05	
			For Fusion Bonded Epoxy Lining (206N), Add	33.77	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.07	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-11.32	
			For Class 51, Add	26.06	
			For Class 52, Add	56.34	
			For Class 53, Add	102.00	
			For Class 54, Add	145.73	
			For Class 55, Add	167.25	
			For Class 56, Add	188.37	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0010	LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	276.32		28.76
	For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	102.37		
	For Cement Mortar Lining (CML), Add	23.27		
	Note: ANSI/AWWA C104/A21.4			
	For 40 Mil Ceramic Epoxy Lining (P401), Add	79.11		
	For Fusion Bonded Epoxy Lining (206N), Add	41.88		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.45		
	Note: ANSI/AWWA C151/A21.51			
	For >1,000, Deduct	-13.82		
	For Class 51, Add	32.26		
	For Class 52, Add	69.75		
	For Class 53, Add	126.32		
	For Class 54, Add	180.50		
	For Class 55, Add	207.13		
	For Class 56, Add	233.27		
33 14 13 13-0011	LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	310.74		32.94
	For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	106.94		
	For Cement Mortar Lining (CML), Add	26.08		
	Note: ANSI/AWWA C104/A21.4			
	For 40 Mil Ceramic Epoxy Lining (P401), Add	80.86		
	For Fusion Bonded Epoxy Lining (206N), Add	46.95		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.56		
	Note: ANSI/AWWA C151/A21.51			
	For >1,000, Deduct	-15.54		
	For Class 51, Add	36.18		
	For Class 52, Add	78.22		
	For Class 53, Add	141.66		
	For Class 54, Add	202.40		
	For Class 55, Add	232.27		
	For Class 56, Add	261.58		
33 14 13 13-0012	LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	392.72		38.41
	For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	137.15		
	For Cement Mortar Lining (CML), Add	33.45		
	Note: ANSI/AWWA C104/A21.4			
	For 40 Mil Ceramic Epoxy Lining (P401), Add	103.70		
	For Fusion Bonded Epoxy Lining (206N), Add	60.21		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.09		
	Note: ANSI/AWWA C151/A21.51			
	For >1,000, Deduct	-19.64		
	For Class 51, Add	46.32		
	For Class 52, Add	100.17		
	For Class 53, Add	181.45		
	For Class 54, Add	259.29		
	For Class 55, Add	297.51		
	For Class 56, Add	335.04		
33 14 13 13-0013	LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	438.25		46.10
	For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	139.99		
	For Cement Mortar Lining (CML), Add	36.84		
	Note: ANSI/AWWA C104/A21.4			
	For 40 Mil Ceramic Epoxy Lining (P401), Add	103.15		
	For Fusion Bonded Epoxy Lining (206N), Add	66.31		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.63		
	Note: ANSI/AWWA C151/A21.51			
	For >1,000, Deduct	-21.91		
	For Class 51, Add	51.09		
	For Class 52, Add	110.46		
	For Class 53, Add	200.04		
	For Class 54, Add	285.83		
	For Class 55, Add	328.01		
	For Class 56, Add	369.40		
33 14 13 13-0014	LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	581.75		57.63
	For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	153.27		
	For Cement Mortar Lining (CML), Add	49.44		
	Note: ANSI/AWWA C104/A21.4			
	For 40 Mil Ceramic Epoxy Lining (P401), Add	103.83		
	For Fusion Bonded Epoxy Lining (206N), Add	89.00		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.08		
	Note: ANSI/AWWA C151/A21.51			
	For >1,000, Deduct	-29.09		
	For Class 51, Add	68.48		
	For Class 52, Add	148.09		
	For Class 53, Add	268.24		
	For Class 54, Add	383.30		
	For Class 55, Add	439.81		
	For Class 56, Add	495.29		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	790.35	62.05
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	216.14	
For Cement Mortar Lining (CML), Add	69.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	125.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.29	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-39.52	
For Class 51, Add	96.20	
For Class 52, Add	208.08	
For Class 53, Add	377.13	
For Class 54, Add	539.01	
For Class 55, Add	618.33	
For Class 56, Add	696.19	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	970.80	65.89
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	270.27	
For Cement Mortar Lining (CML), Add	87.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	156.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.39	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-48.54	
For Class 51, Add	120.07	
For Class 52, Add	259.75	
For Class 53, Add	470.93	
For Class 54, Add	673.13	
For Class 55, Add	772.10	
For Class 56, Add	869.24	
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	1,227.88	69.73
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	348.16	
For Cement Mortar Lining (CML), Add	112.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	202.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.23	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-61.39	
For Class 51, Add	154.39	
For Class 52, Add	334.05	
For Class 53, Add	605.80	
For Class 54, Add	865.98	
For Class 55, Add	993.19	
For Class 56, Add	1,118.04	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	1,542.09	73.69
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	443.77	
For Cement Mortar Lining (CML), Add	143.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	257.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	107.36	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-77.10	
For Class 51, Add	196.50	
For Class 52, Add	425.20	
For Class 53, Add	771.29	
For Class 54, Add	1,102.63	
For Class 55, Add	1,264.48	
For Class 56, Add	1,423.33	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	194.15	44.02
For Cement Mortar Lining (CML), Add	12.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	22.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	218.39	52.60
For Cement Mortar Lining (CML), Add	13.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	24.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	344.49	77.73
For Cement Mortar Lining (CML), Add	22.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.01	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0023	EA	8" Mechanical Joint Ductile Iron 90 Degree Elbow		469.64	92.20
		For Cement Mortar Lining (CML), Add		32.99	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		59.38	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		24.74	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0024	EA	10" Mechanical Joint Ductile Iron 90 Degree Elbow		679.65	102.22
		For Cement Mortar Lining (CML), Add		52.48	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		94.47	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		39.36	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0025	EA	12" Mechanical Joint Ductile Iron 90 Degree Elbow		888.22	119.92
		For Cement Mortar Lining (CML), Add		70.66	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		127.19	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		53.00	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0026	EA	14" Mechanical Joint Ductile Iron 90 Degree Elbow		1,386.41	134.47
		For Cement Mortar Lining (CML), Add		118.27	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		212.89	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		88.70	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0027	EA	16" Mechanical Joint Ductile Iron 90 Degree Elbow		1,839.13	153.67
		For Cement Mortar Lining (CML), Add		160.63	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		289.13	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		120.47	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0028	EA	18" Mechanical Joint Ductile Iron 90 Degree Elbow		2,260.22	215.14
		For Cement Mortar Lining (CML), Add		193.43	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		348.17	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		145.07	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0029	EA	20" Mechanical Joint Ductile Iron 90 Degree Elbow		3,104.59	268.92
		For Cement Mortar Lining (CML), Add		269.72	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		485.49	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		202.29	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0030	EA	24" Mechanical Joint Ductile Iron 90 Degree Elbow		4,568.69	358.10
		For Cement Mortar Lining (CML), Add		402.60	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		724.69	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		301.95	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0031	EA	30" Mechanical Joint Ductile Iron 90 Degree Elbow		7,042.87	384.18
		For Cement Mortar Lining (CML), Add		646.08	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		1,162.94	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		484.56	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0032	EA	36" Mechanical Joint Ductile Iron 90 Degree Elbow		10,704.95	398.84
		For Cement Mortar Lining (CML), Add		1,010.07	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		1,818.13	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		757.55	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0033	EA	42" Mechanical Joint Ductile Iron 90 Degree Elbow		18,019.10	461.02
		For Cement Mortar Lining (CML), Add		1,732.06	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,117.71	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,299.04	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0034	EA	48" Mechanical Joint Ductile Iron 90 Degree Elbow		23,838.46	490.47
		For Cement Mortar Lining (CML), Add		2,309.54	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		4,157.17	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,732.15	
		Note: ANSI/AWWA C151/A21.51			

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 14 13 13-0036	EA 3" Mechanical Joint Ductile Iron 45 Degree Elbow	181.03		44.02	
	For Cement Mortar Lining (CML), Add	11.43			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	20.58			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.57			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0037	EA 4" Mechanical Joint Ductile Iron 45 Degree Elbow	194.02		52.60	
	For Cement Mortar Lining (CML), Add	11.43			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	20.58			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.57			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0038	EA 6" Mechanical Joint Ductile Iron 45 Degree Elbow	301.38		77.73	
	For Cement Mortar Lining (CML), Add	18.37			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	33.06			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.78			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0039	EA 8" Mechanical Joint Ductile Iron 45 Degree Elbow	407.79		92.20	
	For Cement Mortar Lining (CML), Add	26.80			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	48.25			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.10			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0040	EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow	546.57		102.22	
	For Cement Mortar Lining (CML), Add	39.17			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	70.51			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.38			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0041	EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow	766.39		119.92	
	For Cement Mortar Lining (CML), Add	58.48			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	105.26			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.86			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0042	EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow	1,124.00		134.47	
	For Cement Mortar Lining (CML), Add	92.03			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	165.65			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	69.02			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0043	EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow	1,379.92		153.67	
	For Cement Mortar Lining (CML), Add	114.71			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	206.47			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	86.03			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0044	EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow	1,971.57		215.14	
	For Cement Mortar Lining (CML), Add	164.57			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	296.22			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	123.42			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0045	EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow	2,165.55		268.92	
	For Cement Mortar Lining (CML), Add	175.81			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	316.46			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	131.86			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0046	EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow	3,213.56		358.10	
	For Cement Mortar Lining (CML), Add	267.09			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	480.76			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	200.32			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0047	EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow	6,008.25		384.18	
	For Cement Mortar Lining (CML), Add	542.62			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	976.71			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	406.96			
	Note: ANSI/AWWA C151/A21.51				



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0048	EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,538.24	793.40	398.84
33 14 13 13-0049	EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,889.09	1,219.06	461.02
33 14 13 13-0050	EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,717.92	1,597.48	490.47
33 14 13 13-0051	Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)			
33 14 13 13-0052	EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	156.67	9.00	44.02
33 14 13 13-0053	EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	188.40	10.87	52.60
33 14 13 13-0054	EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	286.39	16.87	77.73
33 14 13 13-0055	EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	402.16	26.24	92.20
33 14 13 13-0056	EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	544.70	38.99	102.22
33 14 13 13-0057	EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	693.29	51.17	119.92
33 14 13 13-0058	EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,135.25	93.15	134.47
33 14 13 13-0059	EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,333.07	110.02	153.67
33 14 13 13-0060	EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,677.30	135.14	215.14

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 14 13 13-0061	EA 20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,244.27 183.68 330.63 137.76		268.92
33 14 13 13-0062	EA 24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,007.38 246.47 443.65 184.85		358.10
33 14 13 13-0063	EA 30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,129.19 454.71 818.48 341.03		384.18
33 14 13 13-0064	EA 36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,269.32 666.51 1,199.71 499.88		398.84
33 14 13 13-0065	EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,761.73 1,006.32 1,811.38 754.74		461.02
33 14 13 13-0066	EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,846.46 1,310.34 2,358.61 982.75		490.47
33 14 13 13-0067	Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)			
33 14 13 13-0068	EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	156.67 9.00 16.19 6.75		44.02
33 14 13 13-0069	EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	182.78 10.31 18.56 7.73		52.60
33 14 13 13-0070	EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	292.01 17.43 31.38 13.07		77.73
33 14 13 13-0071	EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	377.80 23.80 42.85 17.85		92.20
33 14 13 13-0072	EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	540.95 38.61 69.50 28.96		102.22
33 14 13 13-0073	EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	661.43 47.98 86.37 35.99		119.92



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0074	EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,266.45 106.27 191.29 79.71		134.47
33 14 13 13-0075	EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,396.79 116.40 209.51 87.30		153.67
33 14 13 13-0076	EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,033.43 170.75 307.35 128.06		215.14
33 14 13 13-0077	EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,137.44 173.00 311.40 129.75		268.92
33 14 13 13-0078	EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,849.94 230.73 415.31 173.05		358.10
33 14 13 13-0079	EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,211.66 462.96 833.32 347.22		384.18
33 14 13 13-0080	EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,931.94 632.77 1,138.99 474.58		398.84
33 14 13 13-0081	EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,302.53 960.40 1,728.72 720.30		461.02
33 14 13 13-0082	EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,756.49 1,301.34 2,342.41 976.01		490.47
33 14 13 13-0083	Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0002)			
33 14 13 13-0084	EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	199.78 13.31 23.95 9.98		44.02
33 14 13 13-0085	EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	244.63 16.49 29.69 12.37		52.60

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0086 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	391.35	77.73
For Cement Mortar Lining (CML), Add	27.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	49.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0087 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	531.49	92.20
For Cement Mortar Lining (CML), Add	39.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	70.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0088 EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	769.62	102.22
For Cement Mortar Lining (CML), Add	61.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0089 EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	985.68	119.92
For Cement Mortar Lining (CML), Add	80.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	144.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0090 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,699.42	134.47
For Cement Mortar Lining (CML), Add	149.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	269.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	112.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0091 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,601.98	153.67
For Cement Mortar Lining (CML), Add	236.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	426.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	177.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,017.44	215.14
For Cement Mortar Lining (CML), Add	269.15	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	484.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	201.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	4,101.72	268.92
For Cement Mortar Lining (CML), Add	369.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	664.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	277.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	4,981.04	358.10
For Cement Mortar Lining (CML), Add	443.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	798.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	332.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	9,322.04	384.18
For Cement Mortar Lining (CML), Add	874.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,573.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	655.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	16,710.27	398.84
For Cement Mortar Lining (CML), Add	1,610.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,899.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,207.95	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0002)



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST
33 14 13 13-0098	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		182.91		44.02
		For Cement Mortar Lining (CML), Add		11.62		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		20.92		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		8.72		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0099	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		199.65		52.60
		For Cement Mortar Lining (CML), Add		12.00		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		21.59		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		9.00		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0100	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		322.00		77.73
		For Cement Mortar Lining (CML), Add		20.43		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		36.77		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		15.32		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0101	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		467.77		92.20
		For Cement Mortar Lining (CML), Add		32.80		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		59.04		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		24.60		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0102	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		642.16		102.22
		For Cement Mortar Lining (CML), Add		48.73		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		87.72		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		36.55		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0103	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		875.10		119.92
		For Cement Mortar Lining (CML), Add		69.35		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		124.83		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		52.01		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0104	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		1,502.61		134.47
		For Cement Mortar Lining (CML), Add		129.89		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		233.80		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		97.42		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0105	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		2,292.72		153.67
		For Cement Mortar Lining (CML), Add		205.99		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		370.78		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		154.49		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0106	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		2,704.43		215.14
		For Cement Mortar Lining (CML), Add		237.85		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		428.13		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		178.39		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0107	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		3,513.19		268.92
		For Cement Mortar Lining (CML), Add		310.58		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		559.04		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		232.93		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0108	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		4,413.12		358.10
		For Cement Mortar Lining (CML), Add		387.05		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		696.68		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		290.29		
		Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0109	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....		8,184.33		384.18
		For Cement Mortar Lining (CML), Add		760.22		
		Note: ANSI/AWWA C104/A21.4				
		For Fusion Bonded Epoxy Lining (206N), Add		1,368.40		
		Note: ANSI/AWWA C104/A21.4				
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		570.17		
		Note: ANSI/AWWA C151/A21.51				

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0110 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	14,616.66	398.84
For Cement Mortar Lining (CML), Add	1,401.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,522.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,050.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)		
33 14 13 13-0112 EA 3" x 3" Mechanical Joint Ductile Iron Tee.....	317.47	66.04
For Cement Mortar Lining (CML), Add	21.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0113 EA 4" x 3" Mechanical Joint Ductile Iron Tee.....	329.24	73.80
For Cement Mortar Lining (CML), Add	21.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0114 EA 4" x 4" Mechanical Joint Ductile Iron Tee.....	299.51	77.73
For Cement Mortar Lining (CML), Add	18.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee.....	399.51	97.91
For Cement Mortar Lining (CML), Add	25.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	45.21	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee.....	459.99	101.96
For Cement Mortar Lining (CML), Add	30.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	54.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....	500.87	114.14
For Cement Mortar Lining (CML), Add	32.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	59.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....	533.27	118.15
For Cement Mortar Lining (CML), Add	35.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....	606.01	130.29
For Cement Mortar Lining (CML), Add	40.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....	702.63	138.43
For Cement Mortar Lining (CML), Add	49.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	88.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	36.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....	736.02	127.03
For Cement Mortar Lining (CML), Add	54.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	97.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....	736.61	138.56
For Cement Mortar Lining (CML), Add	52.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.50	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0123	EA	10" x 8" Mechanical Joint Ductile Iron Tee.....	838.23		146.25
		For Cement Mortar Lining (CML), Add	61.67		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	111.00		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.25		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0124	EA	10" x 10" Mechanical Joint Ductile Iron Tee.....	937.58		153.67
		For Cement Mortar Lining (CML), Add	70.47		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	126.85		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.86		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0125	EA	12" x 4" Mechanical Joint Ductile Iron Tee.....	881.14		142.40
		For Cement Mortar Lining (CML), Add	66.54		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	119.77		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.90		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0126	EA	12" x 6" Mechanical Joint Ductile Iron Tee.....	1,001.68		153.92
		For Cement Mortar Lining (CML), Add	76.85		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	138.32		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.64		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0127	EA	12" x 8" Mechanical Joint Ductile Iron Tee.....	1,232.63		161.62
		For Cement Mortar Lining (CML), Add	98.78		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	177.80		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.08		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0128	EA	12" x 10" Mechanical Joint Ductile Iron Tee.....	1,320.71		169.04
		For Cement Mortar Lining (CML), Add	106.46		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	191.63		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	79.85		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0129	EA	12" x 12" Mechanical Joint Ductile Iron Tee.....	1,251.77		176.72
		For Cement Mortar Lining (CML), Add	98.40		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	177.12		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.80		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0130	EA	14" x 6" Mechanical Joint Ductile Iron Tee.....	1,336.36		179.35
		For Cement Mortar Lining (CML), Add	106.46		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	191.63		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	79.85		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0131	EA	14" x 8" Mechanical Joint Ductile Iron Tee.....	1,488.59		187.04
		For Cement Mortar Lining (CML), Add	120.52		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	216.93		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	90.39		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0132	EA	14" x 10" Mechanical Joint Ductile Iron Tee.....	1,904.68		194.47
		For Cement Mortar Lining (CML), Add	161.00		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	289.81		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.75		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0133	EA	14" x 12" Mechanical Joint Ductile Iron Tee.....	2,036.29		202.15
		For Cement Mortar Lining (CML), Add	173.00		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	311.40		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	129.75		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0134	EA	14" x 14" Mechanical Joint Ductile Iron Tee.....	1,963.72		214.91
		For Cement Mortar Lining (CML), Add	163.82		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	294.87		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	122.86		
		Note: ANSI/AWWA C151/A21.51			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee.....	1,699.74		215.13
		For Cement Mortar Lining (CML), Add	137.39		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	247.30		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	103.04		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee.....	1,829.58		222.82
		For Cement Mortar Lining (CML), Add	149.20		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	268.55		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.90		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee.....	2,133.21		230.24
		For Cement Mortar Lining (CML), Add	178.44		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	321.18		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	133.83		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee.....	2,336.03		237.92
		For Cement Mortar Lining (CML), Add	197.55		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	355.60		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	148.16		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee.....	2,814.51		250.65
		For Cement Mortar Lining (CML), Add	243.47		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	438.25		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	182.61		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee.....	2,657.92		268.58
		For Cement Mortar Lining (CML), Add	225.11		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	405.19		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	168.83		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee.....	2,362.70		275.33
		For Cement Mortar Lining (CML), Add	194.55		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	350.20		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	145.92		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee.....	2,535.56		283.01
		For Cement Mortar Lining (CML), Add	210.67		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	379.21		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	158.01		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee.....	2,745.47		290.44
		For Cement Mortar Lining (CML), Add	230.54		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	414.97		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	172.91		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee.....	2,953.92		298.12
		For Cement Mortar Lining (CML), Add	250.22		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	450.40		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.67		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee.....	3,038.79		310.83
		For Cement Mortar Lining (CML), Add	256.78		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	462.21		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	192.59		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee.....	3,243.95		328.73
		For Cement Mortar Lining (CML), Add	274.59		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	494.26		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	205.94		
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0147	EA	18" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,801.24 325.76 586.36 244.32	358.80
33 14 13 13-0148	EA	20" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,787.42 218.92 394.06 164.19	394.82
33 14 13 13-0149	EA	20" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,847.81 223.79 402.83 167.85	402.52
33 14 13 13-0150	EA	20" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,104.58 248.35 447.02 186.26	409.93
33 14 13 13-0151	EA	20" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,359.89 272.71 490.89 204.54	417.62
33 14 13 13-0152	EA	20" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,399.77 274.78 494.60 206.08	430.33
33 14 13 13-0153	EA	20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,449.37 277.02 498.64 207.77	448.22
33 14 13 13-0154	EA	20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,342.16 361.74 651.14 271.31	478.32
33 14 13 13-0155	EA	20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,817.91 300.27 540.48 225.20	538.09
33 14 13 13-0156	EA	24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,412.13 263.34 474.02 197.51	513.95
33 14 13 13-0157	EA	24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,457.52 266.72 480.09 200.04	522.37
33 14 13 13-0158	EA	24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,813.63 301.20 542.17 225.90	529.06

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 14 13 13-0159	EA 24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,909.62 309.64 557.35 232.23		536.74	
33 14 13 13-0160	EA 24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,404.95 357.25 643.04 267.93		549.46	
33 14 13 13-0161	EA 24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,760.08 390.05 702.08 292.53		567.34	
33 14 13 13-0162	EA 24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,412.96 450.77 811.39 338.08		597.45	
33 14 13 13-0163	EA 24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,000.18 500.44 900.80 375.33		657.19	
33 14 13 13-0164	EA 24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,543.12 445.71 802.28 334.28		716.79	
33 14 13 13-0165	EA 30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,947.42 502.88 905.18 377.16		606.30	
33 14 13 13-0166	EA 30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,267.93 533.81 960.85 400.35		613.71	
33 14 13 13-0167	EA 30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,588.84 564.73 1,016.52 423.55		621.39	
33 14 13 13-0168	EA 30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,046.69 608.59 1,095.47 456.44		634.12	
33 14 13 13-0169	EA 30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,542.37 655.45 1,179.81 491.59		843.68	
33 14 13 13-0170	EA 30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,745.42 671.19 1,208.15 503.40		682.09	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0171	EA 30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,055.25	693.12	741.85
33 14 13 13-0172	EA 30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,462.25	724.80	801.41
33 14 13 13-0173	EA 30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,621.87	934.35	843.68
33 14 13 13-0174	EA 30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,220.67	531.37	598.60
33 14 13 13-0175	EA 36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,275.53	625.65	672.57
33 14 13 13-0176	EA 36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,100.24	706.99	680.00
33 14 13 13-0177	EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,546.72	750.48	687.68
33 14 13 13-0178	EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,867.74	780.65	700.40
33 14 13 13-0179	EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,192.87	810.46	718.29
33 14 13 13-0180	EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,815.76	868.19	748.38
33 14 13 13-0181	EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,485.46	926.10	808.12
33 14 13 13-0182	EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,602.82	1,028.81	867.68

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 14 13 13-0183	EA	36" x 30" Mechanical Joint Ductile Iron Tee	.....	12,830.92	943.22
		For Cement Mortar Lining (CML), Add		1,145.21	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		2,061.38	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		858.91	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0184	EA	36" x 36" Mechanical Joint Ductile Iron Tee	.....	14,989.73	943.22
		For Cement Mortar Lining (CML), Add		1,356.07	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		2,440.93	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,017.05	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0185	EA	42" x 12" Mechanical Joint Ductile Iron Tee	.....	16,872.36	724.72
		For Cement Mortar Lining (CML), Add		1,577.43	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		2,839.37	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,183.07	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0186	EA	42" x 14" Mechanical Joint Ductile Iron Tee	.....	17,210.25	737.45
		For Cement Mortar Lining (CML), Add		1,609.29	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		2,896.72	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,206.97	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee	.....	19,132.30	755.33
		For Cement Mortar Lining (CML), Add		1,798.79	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,237.81	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,349.09	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee	.....	17,884.61	785.43
		For Cement Mortar Lining (CML), Add		1,669.46	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,005.02	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,252.09	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee	.....	17,975.14	845.18
		For Cement Mortar Lining (CML), Add		1,669.46	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,005.02	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,252.09	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee	.....	18,370.90	904.74
		For Cement Mortar Lining (CML), Add		1,700.01	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,060.01	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,275.01	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee	.....	22,288.64	947.07
		For Cement Mortar Lining (CML), Add		2,085.37	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,753.66	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,564.03	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee	.....	23,214.15	980.22
		For Cement Mortar Lining (CML), Add		2,172.90	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,911.22	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,629.67	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee	.....	24,559.87	998.75
		For Cement Mortar Lining (CML), Add		2,304.66	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		4,148.40	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,728.50	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee	.....	19,883.87	783.77
		For Cement Mortar Lining (CML), Add		1,869.63	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		3,365.34	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		1,402.23	
		Note: ANSI/AWWA C151/A21.51			



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0195	EA	48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,240.52 1,903.37 3,426.07 1,427.53	796.48
33 14 13 13-0196	EA	48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,745.57 1,951.17 3,512.10 1,463.38	814.38
33 14 13 13-0197	EA	48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,267.25 1,998.78 3,597.80 1,499.08	844.47
33 14 13 13-0198	EA	48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,835.73 2,046.57 3,683.83 1,534.93	904.22
33 14 13 13-0199	EA	48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,989.71 2,052.94 3,695.30 1,539.71	963.78
33 14 13 13-0200	EA	48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,775.25 2,525.08 4,545.15 1,893.81	1,006.11
33 14 13 13-0201	EA	48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	30,536.61 2,896.20 5,213.16 2,172.15	1,039.25
33 14 13 13-0202	EA	48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,034.15 3,043.15 5,477.66 2,282.36	1,057.77
33 14 13 13-0203	EA	48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	32,568.08 3,092.07 5,565.72 2,319.05	1,087.35
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)				
33 14 13 13-0205	EA	4" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	271.14 15.93 28.68 11.95	73.80
33 14 13 13-0206	EA	4" x 4" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	415.72 29.80 53.64 22.35	77.68
33 14 13 13-0207	EA	6" x 3" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	399.51 25.12 45.21 18.84	97.91

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	461.87		101.96
		For Cement Mortar Lining (CML), Add	30.74		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	55.33		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.05		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	622.70		114.09
		For Cement Mortar Lining (CML), Add	44.98		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	80.97		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.74		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	799.42		118.15
		For Cement Mortar Lining (CML), Add	62.04		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	111.67		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.53		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	716.60		130.29
		For Cement Mortar Lining (CML), Add	51.92		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	93.45		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.94		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0212	EA	8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	865.69		138.38
		For Cement Mortar Lining (CML), Add	65.60		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	118.08		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.20		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0213	EA	10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,236.47		127.03
		For Cement Mortar Lining (CML), Add	104.40		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	187.92		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.30		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0214	EA	10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,308.28		138.56
		For Cement Mortar Lining (CML), Add	109.84		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	197.70		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.38		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0215	EA	10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,503.61		146.25
		For Cement Mortar Lining (CML), Add	128.20		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	230.77		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	96.15		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0216	EA	10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,692.94		153.67
		For Cement Mortar Lining (CML), Add	146.01		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	262.82		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	109.51		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0217	EA	12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,578.39		142.40
		For Cement Mortar Lining (CML), Add	136.26		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	245.27		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	102.20		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0218	EA	12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,785.15		153.92
		For Cement Mortar Lining (CML), Add	155.19		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	279.35		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	116.40		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0219	EA	12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,151.04		161.62
		For Cement Mortar Lining (CML), Add	190.62		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	343.11		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	142.96		
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,212.89	169.04
		For Cement Mortar Lining (CML), Add	195.68	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	352.22	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	146.76	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	2,005.24	176.71
		For Cement Mortar Lining (CML), Add	173.75	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	312.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	130.31	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,363.49	179.35
		For Cement Mortar Lining (CML), Add	209.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	376.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	156.88	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,705.02	187.04
		For Cement Mortar Lining (CML), Add	242.16	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	435.89	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	181.62	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,531.59	194.47
		For Cement Mortar Lining (CML), Add	323.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	582.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	242.77	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,783.15	202.15
		For Cement Mortar Lining (CML), Add	347.69	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	625.83	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	260.76	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,697.45	214.87
		For Cement Mortar Lining (CML), Add	337.19	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	606.94	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	252.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,428.95	215.13
		For Cement Mortar Lining (CML), Add	210.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	378.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	157.72	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,673.02	222.82
		For Cement Mortar Lining (CML), Add	233.54	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	420.37	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	175.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,150.97	230.24
		For Cement Mortar Lining (CML), Add	280.21	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	504.38	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,524.35	237.92
		For Cement Mortar Lining (CML), Add	316.39	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	569.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	237.29	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,409.56	250.65
		For Cement Mortar Lining (CML), Add	402.98	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	725.36	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	302.23	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,252.97	268.53
For Cement Mortar Lining (CML), Add	384.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	692.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	288.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,822.80	275.33
For Cement Mortar Lining (CML), Add	340.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	613.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	255.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,115.61	283.01
For Cement Mortar Lining (CML), Add	368.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	663.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	276.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,398.62	290.44
For Cement Mortar Lining (CML), Add	395.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	712.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	296.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,706.41	298.12
For Cement Mortar Lining (CML), Add	425.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	765.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	319.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,759.41	310.83
For Cement Mortar Lining (CML), Add	428.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	771.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	321.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,809.01	328.73
For Cement Mortar Lining (CML), Add	431.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	775.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	323.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	4,401.02	358.82
For Cement Mortar Lining (CML), Add	385.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	694.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	289.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,538.03	394.82
For Cement Mortar Lining (CML), Add	393.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	709.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	295.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,637.78	402.52
For Cement Mortar Lining (CML), Add	402.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	725.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	302.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	5,091.36	409.93
For Cement Mortar Lining (CML), Add	447.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	804.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	335.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	5,541.59	417.62
For Cement Mortar Lining (CML), Add	490.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	883.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	368.16	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0244	EA	20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	5,598.35	430.33
		For Cement Mortar Lining (CML), Add	494.63	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	890.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	370.97	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245	EA	20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	5,664.82	448.22
		For Cement Mortar Lining (CML), Add	498.57	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	897.42	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	373.93	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246	EA	20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	6,561.35	478.32
		For Cement Mortar Lining (CML), Add	583.66	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,050.59	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	437.75	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247	EA	20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	6,220.79	538.06
		For Cement Mortar Lining (CML), Add	540.55	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	973.00	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	405.42	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	5,518.87	513.95
		For Cement Mortar Lining (CML), Add	474.02	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	853.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	355.51	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	5,590.49	521.64
		For Cement Mortar Lining (CML), Add	480.01	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	864.02	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	360.01	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	6,222.13	529.06
		For Cement Mortar Lining (CML), Add	542.05	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	975.70	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	406.54	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	6,511.17	536.74
		For Cement Mortar Lining (CML), Add	569.79	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,025.63	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	427.34	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	7,512.58	549.46
		For Cement Mortar Lining (CML), Add	668.01	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,202.41	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	501.01	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	8,343.78	567.34
		For Cement Mortar Lining (CML), Add	748.42	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,347.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	561.31	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	9,334.04	597.45
		For Cement Mortar Lining (CML), Add	842.88	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,517.19	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	632.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	10,254.89	657.19
		For Cement Mortar Lining (CML), Add	925.91	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,666.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	694.44	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0256 EA 24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,108.08 802.21 1,443.98 601.66	716.75
33 14 13 13-0257 EA 30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,363.80 1,045.68 1,882.23 784.26	598.60
33 14 13 13-0258 EA 30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,736.21 1,181.76 2,127.17 886.32	606.30
33 14 13 13-0259 EA 30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,474.69 1,254.48 2,258.07 940.86	613.71
33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,213.57 1,327.21 2,388.97 995.40	621.39
33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,261.83 1,430.11 2,574.19 1,072.58	634.12
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,391.03 1,540.32 2,772.57 1,155.24	652.00
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,805.88 1,577.24 2,839.03 1,182.93	682.09
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,411.85 1,628.78 2,931.81 1,221.59	741.85
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,246.20 1,703.20 3,065.75 1,277.40	801.41
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,774.17 1,849.58 3,329.24 1,387.18	843.74
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,680.08 2,063.81 3,714.87 1,547.86	687.68



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0268	EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,529.66 2,146.85 3,864.32 1,610.13		700.40
33 14 13 13-0269	EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,375.85 2,228.75 4,011.76 1,671.57		718.29
33 14 13 13-0270	EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,009.00 2,387.51 4,297.52 1,790.63		748.38
33 14 13 13-0271	EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,692.70 2,546.83 4,584.29 1,910.12		808.12
33 14 13 13-0272	EA 36" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,607.54 2,829.29 5,092.71 2,121.96		867.68
33 14 13 13-0273	EA 36" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33,163.54 3,178.47 5,721.25 2,383.85		910.01
33 14 13 13-0274	EA 36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	39,569.57 3,814.05 6,865.30 2,860.54		943.16
33 14 13 13-0275	EA 42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	34,819.65 3,353.91 6,037.03 2,515.43		845.18
33 14 13 13-0276	EA 42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	35,691.49 3,432.07 6,177.72 2,574.05		904.74
33 14 13 13-0277	EA 42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	38,124.77 3,668.98 6,604.17 2,751.74		947.07
33 14 13 13-0278	EA 42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	43,591.76 4,210.66 7,579.19 3,158.00		980.22
33 14 13 13-0279	EA 42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	51,405.76 4,989.25 8,980.65 3,741.94		998.74

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 14 13 13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	.....	34,354.31	904.22
		For Cement Mortar Lining (CML), Add		3,298.43	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		5,937.17	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		2,473.82	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	.....	38,905.44	963.78
		For Cement Mortar Lining (CML), Add		3,744.52	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		6,740.13	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		2,808.39	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	.....	41,464.29	1,006.11
		For Cement Mortar Lining (CML), Add		3,993.99	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		7,189.18	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		2,995.49	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	.....	47,259.30	1,039.25
		For Cement Mortar Lining (CML), Add		4,568.47	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		8,223.24	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		3,426.35	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	.....	61,775.86	1,057.77
		For Cement Mortar Lining (CML), Add		6,017.32	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		10,831.17	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		4,512.99	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral)	.....	67,818.41	1,087.29
		For Cement Mortar Lining (CML), Add		6,617.10	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		11,910.78	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		4,962.82	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)					
33 14 13 13-0287	EA	3" x 3" Mechanical Joint Ductile Iron Cross	.....	375.19	88.04
		For Cement Mortar Lining (CML), Add		24.18	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		43.52	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		18.13	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0288	EA	4" x 3" Mechanical Joint Ductile Iron Cross	.....	454.43	95.80
		For Cement Mortar Lining (CML), Add		30.93	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		55.67	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		23.19	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0289	EA	4" x 4" Mechanical Joint Ductile Iron Cross	.....	538.87	97.10
		For Cement Mortar Lining (CML), Add		39.17	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		70.51	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		29.38	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0290	EA	6" x 3" Mechanical Joint Ductile Iron Cross	.....	643.03	120.03
		For Cement Mortar Lining (CML), Add		46.11	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		82.99	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		34.58	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0291	EA	6" x 4" Mechanical Joint Ductile Iron Cross	.....	623.51	129.47
		For Cement Mortar Lining (CML), Add		42.73	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		76.92	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		32.05	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0292	EA	6" x 6" Mechanical Joint Ductile Iron Cross	.....	725.05	161.84
		For Cement Mortar Lining (CML), Add		47.98	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		86.37	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		35.99	
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0293	EA	8" x 4" Mechanical Joint Ductile Iron Cross	640.06		141.62
		For Cement Mortar Lining (CML), Add	42.55		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	76.58		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.91		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0294	EA	8" x 6" Mechanical Joint Ductile Iron Cross	760.31		173.99
		For Cement Mortar Lining (CML), Add	49.67		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	89.40		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.25		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0295	EA	8" x 8" Mechanical Joint Ductile Iron Cross	804.97		186.11
		For Cement Mortar Lining (CML), Add	52.29		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	94.13		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.22		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0296	EA	10" x 4" Mechanical Joint Ductile Iron Cross	779.90		148.58
		For Cement Mortar Lining (CML), Add	55.48		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	99.86		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.61		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0297	EA	10" x 6" Mechanical Joint Ductile Iron Cross	893.94		179.31
		For Cement Mortar Lining (CML), Add	62.23		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	112.01		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.67		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0298	EA	10" x 8" Mechanical Joint Ductile Iron Cross	1,061.36		190.84
		For Cement Mortar Lining (CML), Add	77.22		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	139.00		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	57.92		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0299	EA	10" x 10" Mechanical Joint Ductile Iron Cross	1,148.32		204.89
		For Cement Mortar Lining (CML), Add	83.78		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	150.81		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.84		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0300	EA	12 x 4" Mechanical Joint Ductile Iron Cross.....	945.48		161.35
		For Cement Mortar Lining (CML), Add	70.10		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	126.18		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.58		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0301	EA	12" x 6" Mechanical Joint Ductile Iron Cross	1,098.87		192.09
		For Cement Mortar Lining (CML), Add	80.78		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	145.41		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	60.59		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0302	EA	12" x 8" Mechanical Joint Ductile Iron Cross	1,583.06		203.62
		For Cement Mortar Lining (CML), Add	127.45		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	229.42		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	95.59		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0303	EA	12" x 10" Mechanical Joint Ductile Iron Cross	1,604.42		217.72
		For Cement Mortar Lining (CML), Add	127.45		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	229.42		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	95.59		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0304	EA	12" x 12" Mechanical Joint Ductile Iron Cross	1,820.59		230.51
		For Cement Mortar Lining (CML), Add	147.13		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	264.84		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.35		
		Note: ANSI/AWWA C151/A21.51			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0305	EA	14" x 6" Mechanical Joint Ductile Iron Cross	1,864.58		211.29
		For Cement Mortar Lining (CML), Add	154.44		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	278.00		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	115.83		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0306	EA	14" x 8" Mechanical Joint Ductile Iron Cross	2,193.20		222.82
		For Cement Mortar Lining (CML), Add	185.56		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	334.00		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	139.17		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0307	EA	14" x 10" Mechanical Joint Ductile Iron Cross	2,252.03		236.92
		For Cement Mortar Lining (CML), Add	189.31		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	340.75		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	141.98		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0308	EA	14" x 12" Mechanical Joint Ductile Iron Cross	2,376.38		249.70
		For Cement Mortar Lining (CML), Add	199.80		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	359.65		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	149.85		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0309	EA	14" x 14" Mechanical Joint Ductile Iron Cross	2,628.51		268.92
		For Cement Mortar Lining (CML), Add	222.11		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	399.79		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	166.58		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0310	EA	16" x 6" Mechanical Joint Ductile Iron Cross	2,132.09		238.17
		For Cement Mortar Lining (CML), Add	177.12		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	318.82		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	132.84		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0311	EA	16" x 8" Mechanical Joint Ductile Iron Cross	2,425.09		249.70
		For Cement Mortar Lining (CML), Add	204.68		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	368.42		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	153.51		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0312	EA	16" x 10" Mechanical Joint Ductile Iron Cross	2,901.12		263.79
		For Cement Mortar Lining (CML), Add	250.14		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	450.26		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.61		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0313	EA	16" x 12" Mechanical Joint Ductile Iron Cross	3,232.41		276.59
		For Cement Mortar Lining (CML), Add	281.34		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	506.40		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	211.00		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0314	EA	16" x 14" Mechanical Joint Ductile Iron Cross	3,902.54		295.78
		For Cement Mortar Lining (CML), Add	345.44		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	621.79		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	259.08		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0315	EA	16" x 16" Mechanical Joint Ductile Iron Cross	4,567.39		322.71
		For Cement Mortar Lining (CML), Add	407.85		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	734.13		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	305.89		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0316	EA	18" x 6" Mechanical Joint Ductile Iron Cross	3,521.20		281.63
		For Cement Mortar Lining (CML), Add	309.45		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	557.01		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.09		
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0317	EA 18" x 8" Mechanical Joint Ductile Iron Cross	3,722.37		293.16
	For Cement Mortar Lining (CML), Add	327.82		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	590.07		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	245.86		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0318	EA 18" x 10" Mechanical Joint Ductile Iron Cross	3,897.41		307.25
	For Cement Mortar Lining (CML), Add	343.19		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	617.74		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	257.39		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0319	EA 18" x 12" Mechanical Joint Ductile Iron Cross	4,224.17		320.04
	For Cement Mortar Lining (CML), Add	373.93		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	673.07		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	280.45		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0320	EA 18" x 14" Mechanical Joint Ductile Iron Cross	4,926.14		339.24
	For Cement Mortar Lining (CML), Add	441.22		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	794.19		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	330.91		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0321	EA 18" x 16" Mechanical Joint Ductile Iron Cross	5,244.27		366.11
	For Cement Mortar Lining (CML), Add	468.96		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	844.12		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	351.72		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0322	EA 18" x 18" Mechanical Joint Ductile Iron Cross	5,493.79		409.56
	For Cement Mortar Lining (CML), Add	487.32		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	877.18		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	365.49		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0323	EA 20" x 6" Mechanical Joint Ductile Iron Cross	4,426.48		353.35
	For Cement Mortar Lining (CML), Add	389.11		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	700.40		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	291.83		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0324	EA 20" x 8" Mechanical Joint Ductile Iron Cross	4,629.52		364.89
	For Cement Mortar Lining (CML), Add	407.67		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	733.80		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	305.75		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0325	EA 20" x 10" Mechanical Joint Ductile Iron Cross	4,772.70		378.99
	For Cement Mortar Lining (CML), Add	419.85		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	755.73		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	314.89		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0326	EA 20" x 12" Mechanical Joint Ductile Iron Cross	5,097.59		391.77
	For Cement Mortar Lining (CML), Add	450.40		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	810.72		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	337.80		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0327	EA 20" x 14" Mechanical Joint Ductile Iron Cross	5,188.53		410.98
	For Cement Mortar Lining (CML), Add	456.58		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	821.85		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	342.44		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0328	EA 20" x 16" Mechanical Joint Ductile Iron Cross	6,271.38		437.85
	For Cement Mortar Lining (CML), Add	560.80		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	1,009.43		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	420.60		
	Note: ANSI/AWWA C151/A21.51			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0329	EA	20" x 18" Mechanical Joint Ductile Iron Cross	6,520.91	481.31
			For Cement Mortar Lining (CML), Add	579.17	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,042.50	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	434.37	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0330	EA	20" x 20" Mechanical Joint Ductile Iron Cross	7,058.81	552.99
			For Cement Mortar Lining (CML), Add	622.09	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,119.76	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	466.57	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0331	EA	24" x 6" Mechanical Joint Ductile Iron Cross	6,032.17	442.03
			For Cement Mortar Lining (CML), Add	536.24	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	965.24	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	402.18	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0332	EA	24" x 8" Mechanical Joint Ductile Iron Cross	6,173.70	453.56
			For Cement Mortar Lining (CML), Add	548.61	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	987.50	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	411.46	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0333	EA	24" x 10" Mechanical Joint Ductile Iron Cross	6,408.38	467.65
			For Cement Mortar Lining (CML), Add	569.98	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,025.97	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	427.49	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0334	EA	24" x 12" Mechanical Joint Ductile Iron Cross	6,611.44	480.45
			For Cement Mortar Lining (CML), Add	588.35	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,059.03	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	441.26	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0335	EA	24" x 14" Mechanical Joint Ductile Iron Cross	6,732.36	499.64
			For Cement Mortar Lining (CML), Add	597.53	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,075.56	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	448.15	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0336	EA	24" x 16" Mechanical Joint Ductile Iron Cross	6,988.63	526.52
			For Cement Mortar Lining (CML), Add	619.09	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,114.36	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	464.32	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0337	EA	24" x 18" Mechanical Joint Ductile Iron Cross	9,230.56	569.97
			For Cement Mortar Lining (CML), Add	836.70	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,506.05	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	627.52	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0338	EA	24" x 20" Mechanical Joint Ductile Iron Cross	9,736.61	641.71
			For Cement Mortar Lining (CML), Add	876.43	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,577.58	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	657.32	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0339	EA	24" x 24" Mechanical Joint Ductile Iron Cross	10,729.39	730.40
			For Cement Mortar Lining (CML), Add	962.28	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,732.10	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	721.71	
			Note: ANSI/AWWA C151/A21.51		
33 14 13	13-0340	EA	30" x 8" Mechanical Joint Ductile Iron Cross	11,519.79	587.74
			For Cement Mortar Lining (CML), Add	1,062.93	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	1,913.27	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	797.20	
			Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0341	EA	30" x 10" Mechanical Joint Ductile Iron Cross	11,749.18		601.84
		For Cement Mortar Lining (CML), Add	1,083.73		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	1,950.72		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	812.80		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0342	EA	30" x 12" Mechanical Joint Ductile Iron Cross	11,974.74		614.61
		For Cement Mortar Lining (CML), Add	1,104.35		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	1,987.83		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	828.26		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0343	EA	30" x 14" Mechanical Joint Ductile Iron Cross	12,241.86		633.83
		For Cement Mortar Lining (CML), Add	1,128.15		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,030.68		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	846.11		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0344	EA	30" x 16" Mechanical Joint Ductile Iron Cross	12,548.75		660.69
		For Cement Mortar Lining (CML), Add	1,154.77		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,078.58		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	866.08		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0345	EA	30" x 18" Mechanical Joint Ductile Iron Cross	12,910.73		704.16
		For Cement Mortar Lining (CML), Add	1,184.38		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,131.89		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	888.29		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0346	EA	30" x 20" Mechanical Joint Ductile Iron Cross	13,373.66		775.89
		For Cement Mortar Lining (CML), Add	1,219.81		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,195.65		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	914.86		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0347	EA	30" x 24" Mechanical Joint Ductile Iron Cross	17,183.56		864.55
		For Cement Mortar Lining (CML), Add	1,587.36		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,857.25		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,190.52		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0348	EA	30" x 30" Mechanical Joint Ductile Iron Cross	19,759.74		998.75
		For Cement Mortar Lining (CML), Add	1,824.65		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	3,284.37		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,368.49		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0349	EA	36" x 8" Mechanical Joint Ductile Iron Cross	16,066.86		637.21
		For Cement Mortar Lining (CML), Add	1,510.14		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,718.25		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,132.61		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0350	EA	36" x 10" Mechanical Joint Ductile Iron Cross	16,294.37		651.28
		For Cement Mortar Lining (CML), Add	1,530.76		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,755.36		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,148.07		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0351	EA	36" x 12" Mechanical Joint Ductile Iron Cross	16,489.95		664.08
		For Cement Mortar Lining (CML), Add	1,548.38		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,787.08		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,161.28		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0352	EA	36" x 14" Mechanical Joint Ductile Iron Cross	16,725.20		683.28
		For Cement Mortar Lining (CML), Add	1,568.99		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,824.19		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,176.74		
		Note: ANSI/AWWA C151/A21.51			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,002.10 1,592.61 2,866.70 1,194.46	710.16
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,332.21 1,619.04 2,914.27 1,214.28	753.60
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,765.16 1,651.46 2,972.63 1,238.60	825.34
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,518.03 1,713.32 3,083.97 1,284.99	914.02
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,932.83 2,334.47 4,202.04 1,750.85	1,048.20
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,391.91 2,572.88 4,631.18 1,929.66	1,097.71
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,556.46 2,050.69 3,691.25 1,538.02	692.67
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	24,370.31 2,329.17 4,192.51 1,746.88	711.88
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,047.99 2,092.87 3,767.16 1,569.65	738.75
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,340.62 2,115.55 3,807.98 1,586.66	782.21
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,758.57 2,146.47 3,863.65 1,609.85	853.95
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,457.09 2,202.89 3,965.20 1,652.17	942.61



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0365	EA	42" x 30" Mechanical Joint Ductile Iron Cross	30,025.57		1,076.80
		For Cement Mortar Lining (CML), Add	2,839.41		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,110.93		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,129.56		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0366	EA	42" x 36" Mechanical Joint Ductile Iron Cross	39,200.34		1,126.25
		For Cement Mortar Lining (CML), Add	3,749.39		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	6,748.90		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,812.04		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0367	EA	42" x 42" Mechanical Joint Ductile Iron Cross	42,002.67		1,154.86
		For Cement Mortar Lining (CML), Add	4,025.29		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	7,245.52		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,018.97		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0368	EA	48" x 12" Mechanical Joint Ductile Iron Cross	29,137.67		806.21
		For Cement Mortar Lining (CML), Add	2,791.61		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,024.90		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,093.71		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0369	EA	48" x 14" Mechanical Joint Ductile Iron Cross	29,335.45		825.43
		For Cement Mortar Lining (CML), Add	2,808.48		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,055.27		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,106.36		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0370	EA	48" x 16" Mechanical Joint Ductile Iron Cross	29,601.10		852.29
		For Cement Mortar Lining (CML), Add	2,830.97		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,095.75		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,123.23		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0371	EA	48" x 18" Mechanical Joint Ductile Iron Cross	29,891.85		895.76
		For Cement Mortar Lining (CML), Add	2,853.47		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,136.24		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,140.10		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0372	EA	48" x 20" Mechanical Joint Ductile Iron Cross	30,283.57		967.49
		For Cement Mortar Lining (CML), Add	2,881.77		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,187.18		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,161.33		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0373	EA	48" x 24" Mechanical Joint Ductile Iron Cross	30,952.10		1,056.15
		For Cement Mortar Lining (CML), Add	2,935.19		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,283.33		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,201.39		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0374	EA	48" x 30" Mechanical Joint Ductile Iron Cross	32,761.68		1,190.34
		For Cement Mortar Lining (CML), Add	3,095.81		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	5,572.47		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,321.86		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0375	EA	48" x 36" Mechanical Joint Ductile Iron Cross	40,131.48		1,239.80
		For Cement Mortar Lining (CML), Add	3,825.30		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	6,885.54		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,868.98		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0376	EA	48" x 42" Mechanical Joint Ductile Iron Cross	51,583.79		1,268.40
		For Cement Mortar Lining (CML), Add	4,966.20		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	8,939.16		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,724.65		
		Note: ANSI/AWWA C151/A21.51			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0377	EA	48" x 48" Mechanical Joint Ductile Iron Cross	.....	54,938.42	1,381.88
		For Cement Mortar Lining (CML), Add		5,284.46	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		9,512.02	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		3,963.34	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)					
33 14 13 13-0379	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	181.29	47.90
		For Cement Mortar Lining (CML), Add		10.87	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		19.57	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		8.15	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0380	EA	6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	210.94	60.04
		For Cement Mortar Lining (CML), Add		12.00	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		21.59	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		9.00	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0381	EA	6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	228.06	63.93
		For Cement Mortar Lining (CML), Add		13.12	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		23.62	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		9.84	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0382	EA	8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	289.17	72.03
		For Cement Mortar Lining (CML), Add		17.99	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		32.39	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		13.49	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0383	EA	8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	318.69	84.16
		For Cement Mortar Lining (CML), Add		19.12	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		34.41	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		14.34	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0384	EA	10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	349.16	75.81
		For Cement Mortar Lining (CML), Add		23.43	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		42.17	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		17.57	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0385	EA	10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	379.73	87.34
		For Cement Mortar Lining (CML), Add		24.74	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		44.53	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		18.56	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0386	EA	10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	415.76	95.02
		For Cement Mortar Lining (CML), Add		27.18	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		48.92	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		20.38	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0387	EA	12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	422.64	83.50
		For Cement Mortar Lining (CML), Add		29.61	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		53.31	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		22.21	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0388	EA	12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	470.09	95.02
		For Cement Mortar Lining (CML), Add		32.61	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		58.70	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		24.46	
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0389	EA	12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer	.....	491.11	102.71
		For Cement Mortar Lining (CML), Add		33.55	
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add		60.39	
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add		25.16	
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
33 14 13 13-0390	EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	537.99		110.13
	For Cement Mortar Lining (CML), Add	37.11		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	66.80		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.83		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0391	EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	886.72		107.74
	For Cement Mortar Lining (CML), Add	72.35		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	130.23		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.26		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0392	EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	860.89		115.43
	For Cement Mortar Lining (CML), Add	68.60		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	123.48		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.45		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0393	EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	770.92		122.84
	For Cement Mortar Lining (CML), Add	58.48		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	105.26		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.86		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0394	EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	810.67		130.53
	For Cement Mortar Lining (CML), Add	61.29		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	110.32		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.97		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0395	EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,041.27		125.62
	For Cement Mortar Lining (CML), Add	85.09		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	153.17		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.82		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0396	EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,021.06		133.31
	For Cement Mortar Lining (CML), Add	81.91		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	147.43		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	61.43		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0397	EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,002.32		140.73
	For Cement Mortar Lining (CML), Add	78.91		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	142.04		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.18		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0398	EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,087.06		148.42
	For Cement Mortar Lining (CML), Add	86.22		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	155.19		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	64.66		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0399	EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,209.41		161.13
	For Cement Mortar Lining (CML), Add	96.53		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	173.75		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.40		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0400	EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,299.08		163.40
	For Cement Mortar Lining (CML), Add	105.15		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	189.27		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.86		
	Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0401	EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,456.52		170.83
	For Cement Mortar Lining (CML), Add	119.77		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	215.58		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.83		
	Note: ANSI/AWWA C151/A21.51			

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,404.44	178.52
For Cement Mortar Lining (CML), Add	113.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	204.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,489.30	191.23
For Cement Mortar Lining (CML), Add	119.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	215.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,568.89	209.12
For Cement Mortar Lining (CML), Add	125.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	225.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,833.82	223.16
For Cement Mortar Lining (CML), Add	149.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	269.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	112.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,758.84	230.58
For Cement Mortar Lining (CML), Add	140.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	253.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,622.42	238.26
For Cement Mortar Lining (CML), Add	126.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	227.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.61	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,632.32	250.97
For Cement Mortar Lining (CML), Add	125.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	225.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,685.66	268.87
For Cement Mortar Lining (CML), Add	127.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	230.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	95.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,021.78	298.96
For Cement Mortar Lining (CML), Add	156.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	282.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	117.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,383.66	297.82
For Cement Mortar Lining (CML), Add	193.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	347.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	144.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,451.68	310.54
For Cement Mortar Lining (CML), Add	198.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	356.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	148.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,505.02	328.43
For Cement Mortar Lining (CML), Add	200.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	361.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.56	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0414	EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,462.52	191.93	358.52
33 14 13 13-0415	EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,010.38	237.66	418.28
33 14 13 13-0416	EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,919.54	435.78	370.76
33 14 13 13-0417	EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,137.58	453.02	400.85
33 14 13 13-0418	EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,976.95	427.91	460.60
33 14 13 13-0419	EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,862.89	407.48	520.17
33 14 13 13-0420	EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,377.56	662.95	493.74
33 14 13 13-0421	EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,101.43	526.31	553.30
33 14 13 13-0422	EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,626.65	572.42	595.63
33 14 13 13-0423	EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,591.78	895.18	422.42
33 14 13 13-0424	EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,554.92	886.93	452.51
33 14 13 13-0425	EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,615.45	883.93	512.26

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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0426	EA	42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,730.95	571.83	
		For Cement Mortar Lining (CML), Add	986.46		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	1,775.62		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	739.84		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0427	EA	42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,849.54	614.15	
		For Cement Mortar Lining (CML), Add	791.90		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	1,425.42		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	593.93		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0428	EA	42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,263.37	647.30	
		For Cement Mortar Lining (CML), Add	828.26		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	1,490.87		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	621.20		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0429	EA	48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,924.06	451.95	
		For Cement Mortar Lining (CML), Add	1,223.93		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,203.08		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	917.95		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0430	EA	48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,531.08	482.04	
		For Cement Mortar Lining (CML), Add	1,180.07		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,124.13		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	885.05		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0431	EA	48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,946.85	541.78	
		For Cement Mortar Lining (CML), Add	1,112.60		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,002.67		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	834.45		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0432	EA	48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,320.13	601.34	
		For Cement Mortar Lining (CML), Add	1,140.90		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,053.62		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	855.67		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0433	EA	48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,721.52	643.67	
		For Cement Mortar Lining (CML), Add	1,374.63		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,474.33		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,030.97		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0434	EA	48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,895.55	676.82	
		For Cement Mortar Lining (CML), Add	1,187.01		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,136.61		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	890.26		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0435	EA	48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,156.92	695.34	
		For Cement Mortar Lining (CML), Add	1,310.34		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	2,358.61		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	982.75		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0436		Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)			
33 14 13 13-0437	EA	3" Mechanical Joint Ductile Iron Caps	201.99	101.15	
		For Cement Mortar Lining (CML), Add	4.87		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	8.77		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.65		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0438	EA	4" Mechanical Joint Ductile Iron Caps	230.43	118.68	
		For Cement Mortar Lining (CML), Add	5.06		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	9.11		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.80		
		Note: ANSI/AWWA C151/A21.51			



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 13-0439	EA	6" Mechanical Joint Ductile Iron Caps	314.74		148.35
		For Cement Mortar Lining (CML), Add	9.00		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	16.19		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.75		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0440	EA	8" Mechanical Joint Ductile Iron Caps	406.84		169.57
		For Cement Mortar Lining (CML), Add	15.00		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	26.99		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.25		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0441	EA	10" Mechanical Joint Ductile Iron Caps	577.37		256.12
		For Cement Mortar Lining (CML), Add	18.93		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	34.08		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.20		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0442	EA	12" Mechanical Joint Ductile Iron Caps	706.35		279.40
		For Cement Mortar Lining (CML), Add	28.30		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	50.94		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.23		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0443	EA	14" Mechanical Joint Ductile Iron Caps	894.89		307.35
		For Cement Mortar Lining (CML), Add	42.92		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	77.26		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.19		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0444	EA	16" Mechanical Joint Ductile Iron Caps	1,092.83		341.46
		For Cement Mortar Lining (CML), Add	57.54		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	103.58		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	43.16		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0445	EA	18" Mechanical Joint Ductile Iron Caps	1,284.96		384.18
		For Cement Mortar Lining (CML), Add	70.29		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	126.52		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.72		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0446	EA	20" Mechanical Joint Ductile Iron Caps	1,574.30		439.01
		For Cement Mortar Lining (CML), Add	90.91		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	163.63		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.18		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0447	EA	24" Mechanical Joint Ductile Iron Caps	2,024.42		512.24
		For Cement Mortar Lining (CML), Add	124.83		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	224.69		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.62		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0448	EA	30" Mechanical Joint Ductile Iron Caps	3,785.94		614.69
		For Cement Mortar Lining (CML), Add	285.46		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	513.83		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	214.09		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0449	EA	36" Mechanical Joint Ductile Iron Caps	6,356.05		768.36
		For Cement Mortar Lining (CML), Add	519.19		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	934.54		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	389.39		
		Note: ANSI/AWWA C151/A21.51			
33 14 13 13-0450	EA	42" Mechanical Joint Ductile Iron Caps	9,271.03		922.03
		For Cement Mortar Lining (CML), Add	787.40		
		Note: ANSI/AWWA C104/A21.4			
		For Fusion Bonded Epoxy Lining (206N), Add	1,417.32		
		Note: ANSI/AWWA C104/A21.4			
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	590.55		
		Note: ANSI/AWWA C151/A21.51			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 14 13 13-0451	EA 48" Mechanical Joint Ductile Iron Caps	11,040.05		1,024.48	
	For Cement Mortar Lining (CML), Add	948.78			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	1,707.81			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	711.59			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0452 Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)					
33 14 13 13-0453	EA 3" Mechanical Joint Ductile Iron Plug.....	209.49		101.15	
	For Cement Mortar Lining (CML), Add	5.62			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	10.12			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.22			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0454	EA 4" Mechanical Joint Ductile Iron Plug.....	241.67		118.68	
	For Cement Mortar Lining (CML), Add	6.19			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	11.13			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.64			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0455	EA 6" Mechanical Joint Ductile Iron Plug.....	344.73		148.35	
	For Cement Mortar Lining (CML), Add	12.00			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	21.59			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.00			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0456	EA 8" Mechanical Joint Ductile Iron Plug.....	436.82		169.57	
	For Cement Mortar Lining (CML), Add	17.99			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	32.39			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.49			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0457	EA 10" Mechanical Joint Ductile Iron Plug.....	699.19		256.12	
	For Cement Mortar Lining (CML), Add	31.11			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	56.01			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.34			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0458	EA 12" Mechanical Joint Ductile Iron Plug.....	740.09		279.40	
	For Cement Mortar Lining (CML), Add	31.68			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	57.02			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.76			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0459	EA 14" Mechanical Joint Ductile Iron Plug.....	1,110.44		307.35	
	For Cement Mortar Lining (CML), Add	64.48			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	116.06			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.36			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0460	EA 16" Mechanical Joint Ductile Iron Plug.....	599.88		341.46	
	For Cement Mortar Lining (CML), Add	8.25			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	14.84			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.19			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0461	EA 18" Mechanical Joint Ductile Iron Plug.....	1,605.47		384.18	
	For Cement Mortar Lining (CML), Add	102.34			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	184.21			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.75			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0462	EA 20" Mechanical Joint Ductile Iron Plug.....	2,011.01		439.01	
	For Cement Mortar Lining (CML), Add	134.58			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	242.24			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.93			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-0463	EA 24" Mechanical Joint Ductile Iron Plug.....	2,642.94		512.24	
	For Cement Mortar Lining (CML), Add	186.68			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	336.03			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	140.01			
	Note: ANSI/AWWA C151/A21.51				



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-0464	EA 30" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,636.88		614.69
		370.55		
		667.00		
		277.91		
33 14 13 13-0465	EA 36" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,888.35		768.36
		572.42		
		1,030.35		
		429.31		
33 14 13 13-0466	EA 42" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,338.50		922.03
		794.15		
		1,429.47		
		595.61		
33 14 13 13-0467	EA 48" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,138.40		1,024.48
		1,058.62		
		1,905.51		
		793.96		
33 14 13 13-0468	Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)			
33 14 13 13-0469	EA 3" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	336.04		153.75
		10.31		
		18.56		
		7.73		
33 14 13 13-0470	EA 4" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	391.57		178.03
		12.18		
		21.93		
		9.14		
33 14 13 13-0471	EA 6" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	541.47		222.53
		20.43		
		36.77		
		15.32		
33 14 13 13-0472	EA 8" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	720.84		254.29
		33.55		
		60.39		
		25.16		
33 14 13 13-0473	EA 10" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	981.32		384.18
		39.92		
		71.86		
		29.94		
33 14 13 13-0474	EA 12" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,174.81		419.11
		53.98		
		97.16		
		40.49		
33 14 13 13-0475	EA 14" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,513.84		461.02
		81.53		
		146.76		
		61.15		
33 14 13 13-0476	EA 16" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,808.87		512.24
		103.28		
		185.90		
		77.46		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0477 EA 18" Mechanical Joint Ductile Iron Long Sleeves	2,194.53	576.27
For Cement Mortar Lining (CML), Add	132.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	237.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	99.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0478 EA 20" Mechanical Joint Ductile Iron Long Sleeves	2,592.92	658.58
For Cement Mortar Lining (CML), Add	159.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	287.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	119.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0479 EA 24" Mechanical Joint Ductile Iron Long Sleeves	3,265.29	768.36
For Cement Mortar Lining (CML), Add	210.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	378.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	157.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0480 EA 30" Mechanical Joint Ductile Iron Long Sleeves	5,797.91	922.03
For Cement Mortar Lining (CML), Add	440.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	792.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	330.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0481 EA 36" Mechanical Joint Ductile Iron Long Sleeves	7,925.89	1,152.53
For Cement Mortar Lining (CML), Add	617.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,112.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	463.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482 EA 42" Mechanical Joint Ductile Iron Long Sleeves	10,259.20	1,315.64
For Cement Mortar Lining (CML), Add	826.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,487.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	619.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0483 EA 48" Mechanical Joint Ductile Iron Long Sleeves	13,939.77	1,536.72
For Cement Mortar Lining (CML), Add	1,161.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,090.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	870.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0484 Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002)		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0485 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0484)		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0486 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	37.49	
33 14 13 13-0487 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	34.14	
Note: Includes four (4) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0488 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	41.25	
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0489 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	48.36	
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0490 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	66.85	
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0491 EA 12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	71.12	
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0492 EA 14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	116.64	
Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0493 EA 16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	123.75	
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0494 EA 18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	165.00	
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0495 EA 20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	213.36	
Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0496 EA 24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	297.28	
Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.		
33 14 13 13-0497 EA 30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	709.78	
Note: Includes twenty (20) 1" diameter plain finish bolts with nut.		
33 14 13 13-0498 EA 36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	1,530.50	
Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.		
33 14 13 13-0499 EA 42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	2,234.59	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.		
33 14 13 13-0500 EA 48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	2,742.39	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.		



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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0501	EA	54" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	3,684.02		
Note: Includes thirty-six (36) 1-1/4" diameter plain finish bolts with nut.					
33 14 13 13-0502		Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts (33 14 13 13-0484)			
Note: Labor installation is included with pipe fittings or valves.					
33 14 13 13-0503	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	63.73		
33 14 13 13-0504	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	48.36		
Note: Includes four (4) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0505	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	61.16		
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0506	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	66.85		
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0507	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	92.46		
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0508	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	96.72		
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0509	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	146.51		
Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0510	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	160.73		
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0511	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	213.36		
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0512	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	275.95		
Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0513	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts	385.47		
Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0514		Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0484)			
Note: Labor installation is included with pipe fittings or valves.					
33 14 13 13-0515	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	41.24		
33 14 13 13-0516	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	36.98		
Note: Includes four (4) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0517	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	44.09		
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0518	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	52.63		
Note: Includes six (6) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0519	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	72.54		
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0520	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	76.81		
Note: Includes eight (8) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0521	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	126.59		
Note: Includes ten (10) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0522	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	133.71		
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0523	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	180.64		
Note: Includes twelve (12) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0524	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	231.85		
Note: Includes fourteen (14) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0525	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	324.31		
Note: Includes sixteen (16) 3/4" diameter plain finish bolts with nut.					
33 14 13 13-0526	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	776.63		
Note: Includes twenty (20) 1" diameter plain finish bolts with nut.					
33 14 13 13-0527	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	1,721.10		
Note: Includes twenty-four (24) 1" diameter plain finish bolts with nut.					
33 14 13 13-0528	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	2,492.04		
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with nut.					
33 14 13 13-0529	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	3,066.69		
Note: Includes thirty-two (32) 1-1/4" diameter plain finish bolts with nut.					
33 14 13 13-0530	EA	54" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	3,763.67		
Note: Includes thirty-six (36) 1-1/4" diameter plain finish bolts with nut.					
33 14 13 13-0531		Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)			
33 14 13 13-0532	EA	3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	354.78		153.75
For Cement Mortar Lining (CML), Add			12.18		
Note: ANSI/AWWA C104/A21.4					
For Fusion Bonded Epoxy Lining (206N), Add			21.93		
Note: ANSI/AWWA C104/A21.4					
For Bituminous Or Coal Tar Coating, 1 Mil, Add			9.14		
Note: ANSI/AWWA C151/A21.51					
33 14 13 13-0533	EA	4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	400.94		178.03
For Cement Mortar Lining (CML), Add			13.12		
Note: ANSI/AWWA C104/A21.4					
For Fusion Bonded Epoxy Lining (206N), Add			23.62		
Note: ANSI/AWWA C104/A21.4					
For Bituminous Or Coal Tar Coating, 1 Mil, Add			9.84		
Note: ANSI/AWWA C151/A21.51					

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0534 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	518.98	222.53
For Cement Mortar Lining (CML), Add	18.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0535 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	660.86	254.29
For Cement Mortar Lining (CML), Add	27.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	49.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0536 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,061.92	384.18
For Cement Mortar Lining (CML), Add	47.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	86.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0537 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,249.79	419.11
For Cement Mortar Lining (CML), Add	61.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0538 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,675.03	461.02
For Cement Mortar Lining (CML), Add	97.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	175.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0539 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,891.34	512.24
For Cement Mortar Lining (CML), Add	111.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	200.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0540 EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,578.76	576.27
For Cement Mortar Lining (CML), Add	170.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	307.01	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	127.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0541 EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,029.63	658.58
For Cement Mortar Lining (CML), Add	203.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	365.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	152.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0542 EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,666.40	768.36
For Cement Mortar Lining (CML), Add	250.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	450.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	187.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0543 EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	6,002.21	922.03
For Cement Mortar Lining (CML), Add	460.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	828.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	345.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0544 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,345.74	1,152.53
For Cement Mortar Lining (CML), Add	659.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,187.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	494.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0545 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	11,196.78	1,317.15
For Cement Mortar Lining (CML), Add	920.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,656.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	690.08	
Note: ANSI/AWWA C151/A21.51		



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 13-0546	EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,851.68 1,152.33 2,074.20 864.25		1,536.72	
33 14 13 13-0547	Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.				
33 14 13 13-0548	EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	213.24		77.12	
33 14 13 13-0549	EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	243.11		91.34	
33 14 13 13-0550	EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	301.59		113.05	
33 14 13 13-0551	EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	376.70		131.92	
33 14 13 13-0552	EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	543.79		192.09	
33 14 13 13-0553	EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	671.44		219.57	
33 14 13 13-0554	EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	783.01		236.32	
33 14 13 13-0555	EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	967.01		256.12	
33 14 13 13-0556	EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,242.09		307.35	
33 14 13 13-0557	EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,467.32		341.33	
33 14 13 13-0558	EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,908.43		393.85	
33 14 13 13-0559	EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,722.26		472.30	
33 14 13 13-0560	EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,596.14		591.05	
33 14 13 13-0561	EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	6,794.44		681.97	
33 14 13 13-0562	EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	8,700.83		877.09	
33 14 13 13-0563	Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) (33 14 13 13-0002) Note: Includes machined bolts and gasket.				
33 14 13 13-0564	EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,637.40		63.11	
33 14 13 13-0565	EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,827.86		78.89	
33 14 13 13-0566	EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	7,005.49		116.59	
33 14 13 13-0567	EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	9,521.55		138.30	
33 14 13 13-0568	EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	12,003.41		153.32	
33 14 13 13-0569	EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	16,011.69		179.86	
33 14 13 13-0570	EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	19,725.83		201.69	
33 14 13 13-0571	EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	23,337.16		230.51	
33 14 13 13-0572	EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	26,306.24		322.71	
33 14 13 13-0573	EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	35,392.25		403.39	
33 14 13 13-0574	EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	49,041.58		537.85	
33 14 13 13-0575	Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) (33 14 13 13-0002) Note: Includes machined bolts and gasket.				
33 14 13 13-0576	EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM)	211.68		77.12	
33 14 13 13-0577	EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM)	271.97		91.34	
33 14 13 13-0578	EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM)	351.64		113.05	
33 14 13 13-0579	EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM)	401.24		131.92	
33 14 13 13-0580	EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	705.63		202.30	
33 14 13 13-0581	EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	798.53		231.23	
33 14 13 13-0582	Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) (33 14 13 13-0002) Note: Includes nuts, bolts and gasket.				
33 14 13 13-0583	EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300).....	309.72		77.12	
33 14 13 13-0584	EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	385.40		91.34	
33 14 13 13-0585	EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	534.02		113.05	
33 14 13 13-0586	EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	773.13		131.92	
33 14 13 13-0587	EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000)	1,119.69		202.30	
33 14 13 13-0588	EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,392.83		231.23	
33 14 13 13-0589	EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	2,149.60		248.89	
33 14 13 13-0590	EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	3,015.18		269.74	
33 14 13 13-0591	EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	3,409.77		323.68	
33 14 13 13-0592	EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,766.48		359.48	
33 14 13 13-0593	EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	4,557.20		414.77	
33 14 13 13-0594	EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,864.29		497.41	
33 14 13 13-0595	EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	8,763.01		622.47	
33 14 13 13-0596	EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	22,887.16		718.23	
33 14 13 13-0597	EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	29,315.06		923.72	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0598	Mechanical Joint x Restrained Plain End Ductile Iron Flexible Ball Joint (33 14 13 13-0002)	
	Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.	
33 14 13 13-0599	EA 4" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	1,257.13 118.68
33 14 13 13-0600	EA 6" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	1,996.52 148.35
33 14 13 13-0601	EA 8" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	2,646.72 169.57
33 14 13 13-0602	EA 10" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	3,657.20 256.12
33 14 13 13-0603	EA 12" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	4,780.87 279.40
33 14 13 13-0604	EA 14" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	5,536.74 307.35
33 14 13 13-0605	EA 16" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	6,154.29 341.46
33 14 13 13-0606	EA 18" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	8,801.73 384.18
33 14 13 13-0607	EA 20" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	8,994.42 439.01
33 14 13 13-0608	EA 24" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	15,708.94 512.24
33 14 13 13-0609	EA 30" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	54,956.49 614.69
33 14 13 13-0610	EA 36" Diameter, Mechanical Joint x Restrained Plain End, Ductile Iron, Flexible Ball Joint	78,024.94 768.36
33 14 13 13-0611	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)	
	See CSI section 33 14 13 13-0484 for bolts and gaskets.	
33 14 13 13-0612	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0611)	
33 14 13 13-0613	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	465.93 44.02
33 14 13 13-0614	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	557.64 52.72
33 14 13 13-0615	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	865.55 77.24
33 14 13 13-0616	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,183.76 91.95
33 14 13 13-0617	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,624.30 102.45
33 14 13 13-0618	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,059.67 119.92
33 14 13 13-0619	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,928.98 135.04
33 14 13 13-0620	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,554.14 153.67
33 14 13 13-0621	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,293.86 215.37
33 14 13 13-0622	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	5,351.90 268.92
33 14 13 13-0623	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	7,567.60 358.57
33 14 13 13-0624	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	12,122.28 384.18
33 14 13 13-0625	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	17,859.23 399.32
33 14 13 13-0626	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	29,429.96 461.02
33 14 13 13-0627	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	38,501.28 490.12
33 14 13 13-0628	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0611)	
33 14 13 13-0629	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	445.31 44.02
33 14 13 13-0630	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	522.03 52.72
33 14 13 13-0631	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	803.70 77.24
33 14 13 13-0632	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,088.17 91.95
33 14 13 13-0633	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,421.87 102.45
33 14 13 13-0634	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,877.86 119.92
33 14 13 13-0635	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,539.12 135.04
33 14 13 13-0636	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,040.57 153.67
33 14 13 13-0637	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,594.73 215.37
33 14 13 13-0638	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,364.13 268.92
33 14 13 13-0639	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	5,751.39 358.57
33 14 13 13-0640	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	10,590.96 384.18
33 14 13 13-0641	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	14,648.52 399.32
33 14 13 13-0642	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	21,771.49 461.02
33 14 13 13-0643	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	27,873.88 490.12
33 14 13 13-0644	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0611)	
33 14 13 13-0645	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	345.97 44.02
33 14 13 13-0646	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	516.41 52.72
33 14 13 13-0647	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	781.21 77.24
33 14 13 13-0648	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,080.67 91.95
33 14 13 13-0649	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,420.00 102.45
33 14 13 13-0650	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,769.15 119.92
33 14 13 13-0651	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,554.12 135.04
33 14 13 13-0652	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,973.10 153.67
33 14 13 13-0653	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,577.87 215.37
33 14 13 13-0654	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,519.70 268.92
33 14 13 13-0655	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,627.68 358.57
33 14 13 13-0656	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,423.26 384.18
33 14 13 13-0657	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	12,867.92 399.32
33 14 13 13-0658	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	18,418.33 461.02
33 14 13 13-0659	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	23,587.31 490.12



Utilities		33	CS
Water Utilities		33 10	
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0660 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0611)				
33 14 13 13-0661	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	345.97	44.02
33 14 13 13-0662	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	619.49	52.72
33 14 13 13-0663	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	788.71	77.24
33 14 13 13-0664	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,046.93	91.95
33 14 13 13-0665	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,416.25	102.45
33 14 13 13-0666	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,718.54	119.92
33 14 13 13-0667	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,750.92	135.04
33 14 13 13-0668	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,064.94	153.67
33 14 13 13-0669	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,110.17	215.37
33 14 13 13-0670	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,358.51	268.92
33 14 13 13-0671	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,629.55	358.57
33 14 13 13-0672	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,546.96	384.18
33 14 13 13-0673	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	12,513.67	399.32
33 14 13 13-0674	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	17,912.26	461.02
33 14 13 13-0675	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	23,452.36	490.12
33 14 13 13-0676 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0611)				
33 14 13 13-0677	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	407.83	44.02
33 14 13 13-0678	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	600.75	52.72
33 14 13 13-0679	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	936.78	77.24
33 14 13 13-0680	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,273.72	91.95
33 14 13 13-0681	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,755.50	102.45
33 14 13 13-0682	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,203.99	119.92
33 14 13 13-0683	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,965.48	135.04
33 14 13 13-0684	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,191.30	153.67
33 14 13 13-0685	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	7,073.47	215.37
33 14 13 13-0686	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	8,152.13	268.92
33 14 13 13-0687	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	8,812.15	358.57
33 14 13 13-0688 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0611)				
33 14 13 13-0689	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	407.83	44.02
33 14 13 13-0690	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	529.53	52.72
33 14 13 13-0691	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	833.69	77.24
33 14 13 13-0692	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,180.01	91.95
33 14 13 13-0693	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,566.20	102.45
33 14 13 13-0694	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,039.05	119.92
33 14 13 13-0695	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	2,719.05	135.04
33 14 13 13-0696	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	3,267.36	153.67
33 14 13 13-0697	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,117.57	215.37
33 14 13 13-0698	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,416.51	268.92
33 14 13 13-0699	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	6,679.17	358.57
33 14 13 13-0700 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee (33 14 13 13-0611)				
33 14 13 13-0701	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	574.25	66.04
33 14 13 13-0702	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	626.36	74.44
33 14 13 13-0703	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	661.25	77.24
33 14 13 13-0704	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	943.06	97.91
33 14 13 13-0705	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,022.29	101.76
33 14 13 13-0706	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,078.16	114.02
33 14 13 13-0707	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,254.88	117.70
33 14 13 13-0708	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee	1,357.61	129.97

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0709	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,493.59	138.54
33 14 13 13-0710	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,686.30	126.90
33 14 13 13-0711	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,683.15	138.54
33 14 13 13-0712	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,824.12	146.69
33 14 13 13-0713	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,968.46	153.67
33 14 13 13-0714	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,030.10	142.03
33 14 13 13-0715	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,047.55	153.67
33 14 13 13-0716	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,214.77	161.82
33 14 13 13-0717	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,554.02	168.81
33 14 13 13-0718	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,560.04	176.95
33 14 13 13-0719	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,901.42	179.29
33 14 13 13-0720	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,139.86	187.43
33 14 13 13-0721	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,812.74	194.41
33 14 13 13-0722	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,024.94	202.57
33 14 13 13-0723	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,727.44	215.37
33 14 13 13-0724	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,470.97	215.37
33 14 13 13-0725	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,658.92	222.36
33 14 13 13-0726	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,391.77	230.51
33 14 13 13-0727	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,118.51	237.49
33 14 13 13-0728	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,376.71	250.30
33 14 13 13-0729	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,862.12	268.92
33 14 13 13-0730	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,557.53	275.92
33 14 13 13-0731	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,807.23	282.90
33 14 13 13-0732	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,123.99	289.88
33 14 13 13-0733	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,416.77	298.03
33 14 13 13-0734	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,565.37	310.83
33 14 13 13-0735	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,946.72	328.30
33 14 13 13-0736	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,638.96	358.57
33 14 13 13-0737	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,235.28	394.66
33 14 13 13-0738	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,323.78	402.80
33 14 13 13-0739	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,852.34	409.79
33 14 13 13-0740	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,141.38	417.94
33 14 13 13-0741	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,201.88	430.75
33 14 13 13-0742	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,122.16	448.21
33 14 13 13-0743	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,832.14	478.48
33 14 13 13-0744	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,670.63	537.85
33 14 13 13-0745	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,352.94	513.41
33 14 13 13-0746	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,413.32	522.72
33 14 13 13-0747	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,529.52	528.53
33 14 13 13-0748	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,702.35	536.69
33 14 13 13-0749	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,626.91	549.49
33 14 13 13-0750	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,955.80	566.96
33 14 13 13-0751	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,796.99	597.23
33 14 13 13-0752	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,112.44	657.76
33 14 13 13-0753	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,481.07	717.13
33 14 13 13-0754	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,137.01	598.39
33 14 13 13-0755	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,601.36	606.54
33 14 13 13-0756	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,206.77	613.52
33 14 13 13-0757	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,814.44	621.67
33 14 13 13-0758	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,677.14	634.48
33 14 13 13-0759	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,607.67	844.03
33 14 13 13-0760	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,544.57	682.21
33 14 13 13-0761	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,524.51	741.58
33 14 13 13-0762	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,088.95	800.95
33 14 13 13-0763	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,825.86	844.03
33 14 13 13-0764	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,490.88	672.89
33 14 13 13-0765	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,862.88	679.88
33 14 13 13-0766	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,603.63	688.03
33 14 13 13-0767	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,127.08	700.84
33 14 13 13-0768	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,652.76	718.30
33 14 13 13-0769	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,665.51	748.57
33 14 13 13-0770	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,725.07	807.94
33 14 13 13-0771	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,534.06	867.32
33 14 13 13-0772	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,937.35	942.99
33 14 13 13-0773	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	24,132.67	942.99
33 14 13 13-0774	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,507.25	725.28
33 14 13 13-0775	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,060.69	736.92
33 14 13 13-0776	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,865.54	755.56
33 14 13 13-0777	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,188.33	785.82
33 14 13 13-0778	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,278.86	845.19
33 14 13 13-0779	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,165.11	904.56
33 14 13 13-0780	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,684.71	947.64
33 14 13 13-0781	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,793.60	980.24
33 14 13 13-0782	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	38,785.97	998.86
33 14 13 13-0783	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	32,083.82	783.49
33 14 13 13-0784	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	32,659.76	796.30
33 14 13 13-0785	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,477.83	814.93
33 14 13 13-0786	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	34,308.77	844.03
33 14 13 13-0787	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,190.26	904.56
33 14 13 13-0788	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,385.47	963.94
33 14 13 13-0789	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	37,996.80	1,005.86



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 13-0790	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....		30,536.61	
33 14 13 13-0791	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....		38,316.87	
33 14 13 13-0792	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....		51,078.86	
33 14 13 13-0793		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0611)			
33 14 13 13-0794	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		644.13	
33 14 13 13-0795	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		709.73	
33 14 13 13-0796	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		833.69	
33 14 13 13-0797	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		918.70	
33 14 13 13-0798	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		1,026.04	
33 14 13 13-0799	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		1,256.22	
33 14 13 13-0800	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		1,654.11	
33 14 13 13-0801	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		1,522.55	
33 14 13 13-0802	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		1,712.88	
33 14 13 13-0803	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		2,434.16	
33 14 13 13-0804	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		2,534.09	
33 14 13 13-0805	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		2,836.26	
33 14 13 13-0806	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		3,096.80	
33 14 13 13-0807	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		2,972.88	
33 14 13 13-0808	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		3,372.70	
33 14 13 13-0809	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		3,995.37	
33 14 13 13-0810	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		3,997.24	
33 14 13 13-0811	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		3,684.64	
33 14 13 13-0812	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		4,385.88	
33 14 13 13-0813	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		5,046.05	
33 14 13 13-0814	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		6,659.83	
33 14 13 13-0815	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		7,143.81	
33 14 13 13-0816	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		6,956.89	
33 14 13 13-0817	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		4,560.05	
33 14 13 13-0818	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		5,040.29	
33 14 13 13-0819	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		5,990.56	
33 14 13 13-0820	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		6,180.26	
33 14 13 13-0821	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		7,665.25	
33 14 13 13-0822	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		7,242.51	
33 14 13 13-0823	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		6,469.34	
33 14 13 13-0824	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		6,981.44	
33 14 13 13-0825	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		7,476.26	
33 14 13 13-0826	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		8,012.71	
33 14 13 13-0827	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		8,091.96	
33 14 13 13-0828	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		8,180.91	
33 14 13 13-0829	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		7,399.93	
33 14 13 13-0830	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		7,600.67	
33 14 13 13-0831	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		7,767.90	
33 14 13 13-0832	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		8,566.35	
33 14 13 13-0833	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		9,357.71	
33 14 13 13-0834	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		9,442.58	
33 14 13 13-0835	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		9,540.91	
33 14 13 13-0836	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		11,097.21	
33 14 13 13-0837	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		10,423.01	
33 14 13 13-0838	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		9,203.78	
33 14 13 13-0839	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		9,322.26	
33 14 13 13-0840	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		10,435.60	
33 14 13 13-0841	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		10,940.19	
33 14 13 13-0842	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		12,704.44	
33 14 13 13-0843	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		14,161.67	
33 14 13 13-0844	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		15,884.79	
33 14 13 13-0845	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		17,452.28	
33 14 13 13-0846	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		15,343.94	
33 14 13 13-0847	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		19,492.73	
33 14 13 13-0848	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		21,922.25	
33 14 13 13-0849	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		23,224.91	
33 14 13 13-0850	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		24,529.83	
33 14 13 13-0851	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		26,378.42	
33 14 13 13-0852	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		28,364.19	
33 14 13 13-0853	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		29,065.81	
33 14 13 13-0854	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		30,072.88	
33 14 13 13-0855	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		31,484.52	
33 14 13 13-0856	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		34,150.20	
33 14 13 13-0857	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		37,722.38	
33 14 13 13-0858	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		39,216.73	
33 14 13 13-0859	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		40,700.19	
33 14 13 13-0860	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		43,566.64	
33 14 13 13-0861	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		46,489.27	
33 14 13 13-0862	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		51,598.94	
33 14 13 13-0863	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		57,868.95	
33 14 13 13-0864	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		69,215.69	
33 14 13 13-0865	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		60,889.57	
33 14 13 13-0866	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		62,368.69	
33 14 13 13-0867	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)		66,642.55	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0868	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	76,321.13	980.24
33 14 13 13-0869	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	90,187.32	998.86
33 14 13 13-0870	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	59,993.14	904.56
33 14 13 13-0871	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	68,011.76	963.94
33 14 13 13-0872	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	72,508.66	1,005.86
33 14 13 13-0873	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	82,770.16	1,039.61
33 14 13 13-0874	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	108,547.64	1,058.23
33 14 13 13-0875	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	119,251.63	1,087.35
33 14 13 13-0876 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0611)				
33 14 13 13-0877	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,147.51	114.02
33 14 13 13-0878	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,428.84	129.97
33 14 13 13-0879	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,058.01	138.54
33 14 13 13-0880	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,369.93	153.67
33 14 13 13-0881	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,139.46	179.29
33 14 13 13-0882	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,825.32	215.37
33 14 13 13-0883	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	4,510.67	275.92
33 14 13 13-0884	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	6,058.10	394.66
33 14 13 13-0885	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	7,063.54	513.41
33 14 13 13-0886	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	12,896.99	598.39
33 14 13 13-0887 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0611)				
33 14 13 13-0888	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	637.59	88.04
33 14 13 13-0889	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	799.31	95.80
33 14 13 13-0890	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,003.70	96.86
33 14 13 13-0891	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,061.01	120.08
33 14 13 13-0892	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,243.91	129.97
33 14 13 13-0893	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,369.81	161.84
33 14 13 13-0894	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,320.44	142.22
33 14 13 13-0895	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,555.03	174.10
33 14 13 13-0896	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,535.95	186.36
33 14 13 13-0897	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,555.87	149.02
33 14 13 13-0898	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,741.14	179.29
33 14 13 13-0899	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,073.49	190.93
33 14 13 13-0900	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,246.67	204.89
33 14 13 13-0901	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,006.34	161.82
33 14 13 13-0902	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,320.93	192.09
33 14 13 13-0903	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,520.22	203.73
33 14 13 13-0904	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,944.56	217.70
33 14 13 13-0905	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,366.91	230.51
33 14 13 13-0906	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,487.74	210.72
33 14 13 13-0907	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,142.49	222.36
33 14 13 13-0908	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,240.69	237.49
33 14 13 13-0909	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,475.61	249.13
33 14 13 13-0910	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,962.04	268.92
33 14 13 13-0911	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,903.32	238.66
33 14 13 13-0912	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,471.84	249.13
33 14 13 13-0913	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,402.24	264.27
33 14 13 13-0914	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,045.77	277.07
33 14 13 13-0915	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,355.04	295.71
33 14 13 13-0916	EA	16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,673.14	322.48
33 14 13 13-0917	EA	18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,773.15	281.73
33 14 13 13-0918	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,167.37	293.37
33 14 13 13-0919	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,503.60	307.35
33 14 13 13-0920	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,154.62	320.15
33 14 13 13-0921	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,563.21	338.77
33 14 13 13-0922	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,171.86	365.55
33 14 13 13-0923	EA	18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,614.43	409.79
33 14 13 13-0924	EA	20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,516.24	353.91
33 14 13 13-0925	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,914.21	364.39
33 14 13 13-0926	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,184.85	379.53
33 14 13 13-0927	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,830.25	392.32
33 14 13 13-0928	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,986.79	410.96
33 14 13 13-0929	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,164.24	437.73
33 14 13 13-0930	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,606.83	480.81
33 14 13 13-0931	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,596.44	552.99
33 14 13 13-0932	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,668.25	442.39



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 13-0933	EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,939.11		454.03	
33 14 13 13-0934	EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,398.70		468.00	
33 14 13 13-0935	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,794.82		480.81	
33 14 13 13-0936	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,011.33		499.43	
33 14 13 13-0937	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	13,494.39		526.21	
33 14 13 13-0938	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,023.00		570.44	
33 14 13 13-0939	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,947.02		641.46	
33 14 13 13-0940	EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,843.22		729.94	
33 14 13 13-0941	EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,130.52		587.91	
33 14 13 13-0942	EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,489.23		601.88	
33 14 13 13-0943	EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,842.25		614.69	
33 14 13 13-0944	EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,257.44		633.31	
33 14 13 13-0945	EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,731.14		661.26	
33 14 13 13-0946	EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,276.81		704.32	
33 14 13 13-0947	EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,959.04		775.35	
33 14 13 13-0948	EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,055.60		864.98	
33 14 13 13-0949	EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	31,106.88		998.86	
33 14 13 13-0950	EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,459.07		636.81	
33 14 13 13-0951	EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,814.04		650.78	
33 14 13 13-0952	EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,120.20		663.58	
33 14 13 13-0953	EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,482.91		683.37	
33 14 13 13-0954	EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,906.00		710.15	
33 14 13 13-0955	EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,401.05		753.23	
33 14 13 13-0956	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	28,036.44		825.40	
33 14 13 13-0957	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,173.54		913.88	
33 14 13 13-0958	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	39,451.31		1,047.76	
33 14 13 13-0959	EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	43,392.97		1,097.82	
33 14 13 13-0960	EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	34,309.33		692.69	
33 14 13 13-0961	EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,022.54		711.32	
33 14 13 13-0962	EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,432.51		739.25	
33 14 13 13-0963	EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,998.79		782.33	
33 14 13 13-0964	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,022.15		854.51	
33 14 13 13-0965	EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	39,205.13		942.99	
33 14 13 13-0966	EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	47,683.54		1,076.87	
33 14 13 13-0967	EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	62,518.75		1,125.76	
33 14 13 13-0968	EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	67,036.08		1,154.86	
33 14 13 13-0969	EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	46,499.50		806.78	
33 14 13 13-0970	EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	46,802.24		825.40	
33 14 13 13-0971	EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	47,206.59		852.18	
33 14 13 13-0972	EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	47,637.91		895.25	
33 14 13 13-0973	EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	48,205.82		967.43	
33 14 13 13-0974	EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,206.10		1,055.91	
33 14 13 13-0975	EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	52,014.70		1,189.79	
33 14 13 13-0976	EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	63,922.22		1,239.85	
33 14 13 13-0977	EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	82,468.84		1,268.95	
33 14 13 13-0978	EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	87,802.74		1,381.88	
33 14 13 13-0979 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0611)					
33 14 13 13-0980	EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	456.82		47.90	
33 14 13 13-0981	EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	640.16		60.04	
33 14 13 13-0982	EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	704.14		63.76	
33 14 13 13-0983	EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	926.44		72.34	
33 14 13 13-0984	EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	961.58		84.60	
33 14 13 13-0985	EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,136.37		75.67	
33 14 13 13-0986	EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,187.56		87.32	
33 14 13 13-0987	EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,234.83		95.46	
33 14 13 13-0988	EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,314.82		83.82	
33 14 13 13-0989	EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,454.11		95.46	
33 14 13 13-0990	EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,477.01		102.45	
33 14 13 13-0991	EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,542.62		110.59	
33 14 13 13-0992	EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,283.09		108.27	
33 14 13 13-0993	EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,294.75		115.25	
33 14 13 13-0994	EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,992.97		123.40	
33 14 13 13-0995	EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,032.73		130.38	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0996	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		2,737.53	125.73
33 14 13 13-0997	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		2,653.59	133.88
33 14 13 13-0998	EA	16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		2,488.65	140.86
33 14 13 13-0999	EA	16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		2,457.19	147.85
33 14 13 13-1000	EA	16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		2,780.10	160.66
33 14 13 13-1001	EA	18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		2,970.98	162.98
33 14 13 13-1002	EA	18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,353.33	171.14
33 14 13 13-1003	EA	18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,200.04	178.12
33 14 13 13-1004	EA	18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,830.33	190.93
33 14 13 13-1005	EA	18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,345.74	209.55
33 14 13 13-1006	EA	20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,955.55	223.53
33 14 13 13-1007	EA	20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,985.53	230.51
33 14 13 13-1008	EA	20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,614.82	238.66
33 14 13 13-1009	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,609.72	251.46
33 14 13 13-1010	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		3,516.87	268.92
33 14 13 13-1011	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		4,164.12	299.19
33 14 13 13-1012	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		4,979.60	298.03
33 14 13 13-1013	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		5,051.36	310.83
33 14 13 13-1014	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		5,138.44	328.30
33 14 13 13-1015	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		5,052.83	358.57
33 14 13 13-1016	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		5,827.48	417.94
33 14 13 13-1017	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		9,119.90	370.20
33 14 13 13-1018	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		9,504.75	400.48
33 14 13 13-1019	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		9,141.69	461.02
33 14 13 13-1020	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		7,721.23	520.39
33 14 13 13-1021	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		12,027.75	493.62
33 14 13 13-1022	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		11,160.22	552.99
33 14 13 13-1023	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		11,914.11	596.06
33 14 13 13-1024	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		17,859.41	422.59
33 14 13 13-1025	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		17,747.58	452.87
33 14 13 13-1026	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		17,779.99	512.24
33 14 13 13-1027	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		18,468.14	571.61
33 14 13 13-1028	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		15,061.04	614.69
33 14 13 13-1029	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		15,759.76	647.28
33 14 13 13-1030	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		22,524.33	451.70
33 14 13 13-1031	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		21,786.47	481.97
33 14 13 13-1032	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		20,673.69	541.34
33 14 13 13-1033	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		21,268.13	601.88
33 14 13 13-1034	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		25,502.61	643.79
33 14 13 13-1035	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		22,029.11	676.39
33 14 13 13-1036	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer		24,238.89	695.01



Utilities		33	CS
Water Utilities		33 10	
Water Utility Transmission and Distribution		33 14	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1037 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps (33 14 13 13-0611)			
33 14 13 13-1038	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	410.04	101.15
33 14 13 13-1039	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	494.71	118.93
33 14 13 13-1040	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	727.09	148.35
33 14 13 13-1041	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	978.50	169.19
33 14 13 13-1042	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,297.10	256.12
33 14 13 13-1043	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,641.64	279.40
33 14 13 13-1044	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,867.66	307.35
33 14 13 13-1045	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,277.40	341.10
33 14 13 13-1046	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,670.08	384.18
33 14 13 13-1047	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	3,223.70	438.90
33 14 13 13-1048	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	4,140.52	512.24
33 14 13 13-1049	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	7,557.07	614.69
33 14 13 13-1050	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	12,421.35	768.36
33 14 13 13-1051	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	17,928.51	922.03
33 14 13 13-1052	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	21,358.18	1,024.48
33 14 13 13-1053 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug (33 14 13 13-0611)			
33 14 13 13-1054	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	411.92	101.15
33 14 13 13-1055	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	513.45	118.93
33 14 13 13-1056	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	775.82	148.35
33 14 13 13-1057	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,027.24	169.19
33 14 13 13-1058	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,576.37	256.12
33 14 13 13-1059	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,705.36	279.40
33 14 13 13-1060	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,274.39	307.35
33 14 13 13-1061	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,747.85	341.10
33 14 13 13-1062	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,271.74	384.18
33 14 13 13-1063	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,037.15	438.90
33 14 13 13-1064	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	5,298.85	512.24
33 14 13 13-1065	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	9,157.74	614.69
33 14 13 13-1066	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	13,416.61	768.36
33 14 13 13-1067	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	18,054.09	922.03
33 14 13 13-1068	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	24,021.59	1,024.48
33 14 13 13-1069 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0611)			
33 14 13 13-1070	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	557.21	153.75
33 14 13 13-1071	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	740.19	177.78
33 14 13 13-1072	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,021.30	223.15
33 14 13 13-1073	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,346.87	253.79
33 14 13 13-1074	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,984.08	384.18
33 14 13 13-1075	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,374.38	419.11
33 14 13 13-1076	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,116.38	461.02
33 14 13 13-1077	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,538.87	512.24
33 14 13 13-1078	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,655.51	576.27
33 14 13 13-1079	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,400.65	658.93
33 14 13 13-1080	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	6,541.60	768.36
33 14 13 13-1081	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	10,328.14	922.03
33 14 13 13-1082	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	14,062.42	1,152.53
33 14 13 13-1083	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	19,166.39	1,316.69
33 14 13 13-1084	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	23,834.31	1,536.72
33 14 13 13-1085 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0611)			
33 14 13 13-1086	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	579.70	153.75
33 14 13 13-1087	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	712.08	177.78
33 14 13 13-1088	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,053.16	223.15
33 14 13 13-1089	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,433.08	253.79
33 14 13 13-1090	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,864.12	384.18
33 14 13 13-1091	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,261.92	419.11

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
33 14 13 13-1092	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,876.47	461.02
33 14 13 13-1093	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,411.41	512.24
33 14 13 13-1094	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,078.22	576.27
33 14 13 13-1095	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,750.26	658.93
33 14 13 13-1096	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	5,945.57	768.36
33 14 13 13-1097	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	10,018.88	922.03
33 14 13 13-1098	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	13,029.67	1,152.53
33 14 13 13-1099	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	16,986.14	1,315.52
33 14 13 13-1100	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	25,286.91	1,536.72
33 14 13 13-1101	Push-On Joint Ductile Iron Piping And Gaskets (33 14 13 13-0001)			
33 14 13 13-1102	Push-On Joint Ductile Iron Pipe (33 14 13 13-1101)			
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.				
33 14 13 13-1103	LF	4", Class 50, Push-On Joint Ductile Iron Pipe.....	37.51	10.12
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.53	
		For Cement Mortar Lining (CML), Add	2.22	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	11.98	
		For Fusion Bonded Epoxy Lining (206N), Add	3.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.66	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	10.54	
		For >1,000, Deduct	-1.88	
		For Class 51, Add	3.21	
		For Class 52, Add	6.93	
		For Class 53, Add	12.46	
		For Class 54, Add	17.77	
		For Class 55, Add	20.44	
		For Class 56, Add	23.07	
33 14 13 13-1104	LF	6", Class 50, Push-On Joint Ductile Iron Pipe.....	41.14	11.16
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.04	
		For Cement Mortar Lining (CML), Add	2.43	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	13.14	
		For Fusion Bonded Epoxy Lining (206N), Add	4.38	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.83	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	11.56	
		For >1,000, Deduct	-2.06	
		For Class 51, Add	3.53	
		For Class 52, Add	7.60	
		For Class 53, Add	13.67	
		For Class 54, Add	19.49	
		For Class 55, Add	22.43	
		For Class 56, Add	25.32	
33 14 13 13-1105	LF	8", Class 50, Push-On Joint Ductile Iron Pipe.....	51.66	12.27
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	23.29	
		For Cement Mortar Lining (CML), Add	3.33	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	17.97	
		For Fusion Bonded Epoxy Lining (206N), Add	5.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.50	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	15.80	
		For >1,000, Deduct	-2.58	
		For Class 51, Add	4.76	
		For Class 52, Add	10.28	
		For Class 53, Add	18.52	
		For Class 54, Add	26.42	
		For Class 55, Add	30.38	
		For Class 56, Add	34.27	
33 14 13 13-1106	LF	10", Class 50, Push-On Joint Ductile Iron Pipe.....	73.13	17.34
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	28.16	
		For Cement Mortar Lining (CML), Add	4.69	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	23.47	
		For Fusion Bonded Epoxy Lining (206N), Add	8.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.52	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Pipe, Add	22.30	
		For >1,000, Deduct	-3.66	
		For Class 51, Add	6.73	
		For Class 52, Add	14.51	
		For Class 53, Add	26.14	
		For Class 54, Add	37.28	
		For Class 55, Add	42.87	
		For Class 56, Add	48.36	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1107	LF	12"	Class 50, Push-On Joint Ductile Iron Pipe.....	85.06	19.21
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.98	
			For Cement Mortar Lining (CML), Add	5.60	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	22.38	
			For Fusion Bonded Epoxy Lining (206N), Add	10.07	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.20	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	26.58	
			For >1,000, Deduct	-4.25	
			For Class 51, Add	7.99	
			For Class 52, Add	17.24	
			For Class 53, Add	31.08	
			For Class 54, Add	44.34	
			For Class 55, Add	50.98	
			For Class 56, Add	57.50	
33 14 13 13-1108	LF	14"	Class 50, Push-On Joint Ductile Iron Pipe.....	104.04	21.66
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.39	
			For Cement Mortar Lining (CML), Add	7.13	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	24.25	
			For Fusion Bonded Epoxy Lining (206N), Add	12.84	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.35	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	33.88	
			For >1,000, Deduct	-5.20	
			For Class 51, Add	10.13	
			For Class 52, Add	21.87	
			For Class 53, Add	39.45	
			For Class 54, Add	56.30	
			For Class 55, Add	64.71	
			For Class 56, Add	72.96	
33 14 13 13-1109	LF	16"	Class 50, Push-On Joint Ductile Iron Pipe.....	123.50	24.68
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.31	
			For Cement Mortar Lining (CML), Add	8.61	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	26.70	
			For Fusion Bonded Epoxy Lining (206N), Add	15.50	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.46	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	40.91	
			For >1,000, Deduct	-6.18	
			For Class 51, Add	12.21	
			For Class 52, Add	26.35	
			For Class 53, Add	47.55	
			For Class 54, Add	67.87	
			For Class 55, Add	77.99	
			For Class 56, Add	87.93	
33 14 13 13-1110	LF	18"	Class 50, Push-On Joint Ductile Iron Pipe.....	143.67	28.87
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	41.01	
			For Cement Mortar Lining (CML), Add	10.00	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	31.01	
			For Fusion Bonded Epoxy Lining (206N), Add	18.00	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.50	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	47.51	
			For >1,000, Deduct	-7.18	
			For Class 51, Add	14.18	
			For Class 52, Add	30.61	
			For Class 53, Add	55.24	
			For Class 54, Add	78.84	
			For Class 55, Add	90.60	
			For Class 56, Add	102.14	
33 14 13 13-1111	LF	20"	Class 50, Push-On Joint Ductile Iron Pipe.....	165.53	34.57
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	42.99	
			For Cement Mortar Lining (CML), Add	11.31	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	31.68	
			For Fusion Bonded Epoxy Lining (206N), Add	20.37	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.49	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	53.74	
			For >1,000, Deduct	-8.28	
			For Class 51, Add	16.08	
			For Class 52, Add	34.70	
			For Class 53, Add	62.60	
			For Class 54, Add	89.33	
			For Class 55, Add	102.67	
			For Class 56, Add	115.77	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1112	LF		24", Class 50, Push-On Joint Ductile Iron Pipe.....	209.49	43.19
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	44.62	
			For Cement Mortar Lining (CML), Add	14.40	
			Note: ANSI/AWWA C104/A21.4		
			For 40 Mil Ceramic Epoxy Lining (P401), Add	30.23	
			For Fusion Bonded Epoxy Lining (206N), Add	25.91	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.80	
			Note: ANSI/AWWA C151/A21.51		
			For Restrained Joint Pipe, Add	68.38	
			For >1,000, Deduct	-10.47	
			For Class 51, Add	20.44	
			For Class 52, Add	44.12	
			For Class 53, Add	79.60	
			For Class 54, Add	113.60	
			For Class 55, Add	130.56	
			For Class 56, Add	147.21	
33 14 13 13-1113	LF		30", Class 50, Push-On Joint Ductile Iron Pipe.....	249.02	46.10
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	55.54	
			For Cement Mortar Lining (CML), Add	17.92	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	32.25	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.44	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-12.45	
			For Class 51, Add	25.29	
			For Class 52, Add	54.62	
			For Class 53, Add	98.64	
			For Class 54, Add	140.81	
			For Class 55, Add	161.77	
			For Class 56, Add	182.35	
33 14 13 13-1114	LF		36", Class 50, Push-On Joint Ductile Iron Pipe.....	310.14	49.01
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	73.12	
			For Cement Mortar Lining (CML), Add	23.59	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	42.45	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.69	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-15.51	
			For Class 51, Add	33.08	
			For Class 52, Add	71.46	
			For Class 53, Add	129.18	
			For Class 54, Add	184.48	
			For Class 55, Add	211.85	
			For Class 56, Add	238.72	
33 14 13 13-1115	LF		42", Class 50, Push-On Joint Ductile Iron Pipe.....	379.34	51.93
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	93.24	
			For Cement Mortar Lining (CML), Add	30.08	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	54.14	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.56	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-18.97	
			For Class 51, Add	41.98	
			For Class 52, Add	90.72	
			For Class 53, Add	164.12	
			For Class 54, Add	234.43	
			For Class 55, Add	269.13	
			For Class 56, Add	303.19	
33 14 13 13-1116	LF		48", Class 50, Push-On Joint Ductile Iron Pipe.....	457.94	54.72
			For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	116.23	
			For Cement Mortar Lining (CML), Add	37.49	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	67.49	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.12	
			Note: ANSI/AWWA C151/A21.51		
			For >1,000, Deduct	-22.90	
			For Class 51, Add	52.14	
			For Class 52, Add	112.72	
			For Class 53, Add	204.04	
			For Class 54, Add	291.50	
			For Class 55, Add	334.57	
			For Class 56, Add	376.85	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
33 14 13 13-1117	LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	582.59		57.63
	For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	153.53		
	For Cement Mortar Lining (CML), Add	49.53		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	89.15		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.15		
	Note: ANSI/AWWA C151/A21.51			
	For >1,000, Deduct	-29.13		
	For Class 51, Add	68.60		
	For Class 52, Add	148.34		
	For Class 53, Add	268.69		
	For Class 54, Add	383.94		
	For Class 55, Add	440.55		
	For Class 56, Add	496.12		
33 14 13 13-1118	Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1101)			
33 14 13 13-1119	EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron	297.45		39.48
	For Cement Mortar Lining (CML), Add	23.76		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	42.77		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.82		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	142.57		
33 14 13 13-1120	EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron	430.82		58.24
	For Cement Mortar Lining (CML), Add	34.25		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	61.66		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.69		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	205.52		
33 14 13 13-1121	EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron	579.96		69.15
	For Cement Mortar Lining (CML), Add	47.51		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	85.52		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.63		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	285.08		
33 14 13 13-1122	EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron	876.73		76.60
	For Cement Mortar Lining (CML), Add	71.83		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	129.29		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.87		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	430.97		
33 14 13 13-1123	EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron	1,136.06		89.88
	For Cement Mortar Lining (CML), Add	95.03		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	171.06		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.27		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	570.19		
33 14 13 13-1124	EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron	2,292.62		100.82
	For Cement Mortar Lining (CML), Add	208.42		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	375.15		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	156.31		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	1,250.50		
33 14 13 13-1125	EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron	2,591.05		115.25
	For Cement Mortar Lining (CML), Add	235.29		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	423.53		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.47		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	1,411.75		
33 14 13 13-1126	EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron	4,046.49		161.35
	For Cement Mortar Lining (CML), Add	371.31		
	Note: ANSI/AWWA C104/A21.4			
	For Fusion Bonded Epoxy Lining (206N), Add	668.36		
	Note: ANSI/AWWA C104/A21.4			
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	278.48		
	Note: ANSI/AWWA C151/A21.51			
	For Restrained Joint Fitting, Add	2,227.87		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1127 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 2,481.62	4,542.75 413.60 744.49 310.20 2,481.62	203.38
33 14 13 13-1128 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 3,098.26	5,672.16 516.38 929.48 387.28 3,098.26	254.26
33 14 13 13-1129 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1101)		
33 14 13 13-1130 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 110.15	243.41 18.36 33.04 13.77 110.15	39.48
33 14 13 13-1131 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 161.93	358.16 26.99 48.58 20.24 161.93	58.24
33 14 13 13-1132 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 238.18	501.79 39.70 71.45 29.77 238.18	69.15
33 14 13 13-1133 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 366.22	768.81 61.04 109.87 45.78 366.22	76.60
33 14 13 13-1134 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 487.67	998.53 81.28 146.30 60.96 487.67	89.88
33 14 13 13-1135 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 735.26	1,433.89 122.54 220.58 91.91 735.26	100.82
33 14 13 13-1136 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 1,141.96	2,141.40 190.33 342.59 142.75 1,141.96	115.25
33 14 13 13-1137 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For Restrained Joint Fitting, Add 1,268.10	2,446.87 211.35 380.43 158.51 1,268.10	161.35



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-1138	EA	20" 45 Degree Elbow, Push-On Joint Ductile Iron	3,447.56	203.38
		For Cement Mortar Lining (CML), Add	304.08	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	547.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	228.06	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	1,824.50	
33 14 13 13-1139	EA	24" 45 Degree Elbow, Push-On Joint Ductile Iron	4,277.26	254.26
		For Cement Mortar Lining (CML), Add	376.89	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	678.39	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	282.66	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,261.32	
33 14 13 13-1140 Push-On Joint Ductile Iron Tee (33 14 13 13-1101)				
33 14 13 13-1141	EA	4" Tee, Push-On Joint Ductile Iron	455.70	58.24
		For Cement Mortar Lining (CML), Add	36.74	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	66.14	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.56	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	220.45	
33 14 13 13-1142	EA	6" Tee, Push-On Joint Ductile Iron	632.48	85.58
		For Cement Mortar Lining (CML), Add	50.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	90.50	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.71	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	301.66	
33 14 13 13-1143	EA	8" Tee, Push-On Joint Ductile Iron	870.05	103.73
		For Cement Mortar Lining (CML), Add	71.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	128.30	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	53.46	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	427.65	
33 14 13 13-1144	EA	10" Tee, Push-On Joint Ductile Iron	1,296.18	116.42
		For Cement Mortar Lining (CML), Add	112.16	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	201.88	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.12	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	672.94	
33 14 13 13-1145	EA	12" Tee, Push-On Joint Ductile Iron	1,618.11	134.23
		For Cement Mortar Lining (CML), Add	141.44	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	254.59	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.08	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	848.63	
33 14 13 13-1146	EA	14" Tee, Push-On Joint Ductile Iron	2,630.31	161.35
		For Cement Mortar Lining (CML), Add	238.58	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	429.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	178.94	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	1,431.50	
33 14 13 13-1147	EA	16" Tee, Push-On Joint Ductile Iron	3,815.78	201.75
		For Cement Mortar Lining (CML), Add	351.02	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	631.83	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	263.26	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,106.11	
33 14 13 13-1148	EA	18" Tee, Push-On Joint Ductile Iron	4,789.15	269.15
		For Cement Mortar Lining (CML), Add	438.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	788.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	328.60	
		Note: ANSI/AWWA C151/A21.51		
		For Restrained Joint Fitting, Add	2,628.80	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1149 EA 20" Tee, Push-On Joint Ductile Iron.....	5,638.67	328.42
For Cement Mortar Lining (CML), Add	514.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	925.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	385.58	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Fitting, Add	3,084.66	
33 14 13 13-1150 EA 24" Tee, Push-On Joint Ductile Iron.....	7,393.94	410.49
For Cement Mortar Lining (CML), Add	677.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,218.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	507.90	
Note: ANSI/AWWA C151/A21.51		
For Restrained Joint Fitting, Add	4,063.22	
33 14 13 13-1151 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1101)		
33 14 13 13-1152 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron.....	447.48	136.95
For Cement Mortar Lining (CML), Add	24.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1153 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron.....	547.80	169.57
For Cement Mortar Lining (CML), Add	29.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	52.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1154 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron.....	717.88	197.77
For Cement Mortar Lining (CML), Add	41.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	75.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	31.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1155 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron.....	982.02	288.14
For Cement Mortar Lining (CML), Add	54.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	98.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1156 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,189.83	329.34
For Cement Mortar Lining (CML), Add	69.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	124.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1157 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,373.67	354.61
For Cement Mortar Lining (CML), Add	83.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	150.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1158 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,636.63	384.18
For Cement Mortar Lining (CML), Add	105.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	189.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	79.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1159 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron.....	1,934.86	461.02
For Cement Mortar Lining (CML), Add	123.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	222.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	92.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1160 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron.....	2,248.84	512.24
For Cement Mortar Lining (CML), Add	147.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	265.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.45	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 13-1161	EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,822.79	192.73	591.05
33 14 13 13-1162	EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,533.51	345.89	709.22
33 14 13 13-1163	EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,278.51	493.52	886.52
33 14 13 13-1164	EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,942.73	639.05	1,024.48
33 14 13 13-1165	EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,136.77	814.10	1,317.15
33 14 13 13-1166	EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,320.17	999.12	1,537.07
33 14 13 13-1167	Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1101) Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.			
33 14 13 13-1168	EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	58.43		21.32
33 14 13 13-1169	EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	76.08		27.82
33 14 13 13-1170	EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	99.02		28.48
33 14 13 13-1171	EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	117.96		30.26
33 14 13 13-1172	EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	140.87		33.61
33 14 13 13-1173	EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	178.98		37.82
33 14 13 13-1174	EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	211.48		43.21
33 14 13 13-1175	EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	238.84		46.82
33 14 13 13-1176	EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	278.11		56.18
33 14 13 13-1177	EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	336.54		58.35
33 14 13 13-1178	EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	434.28		64.83
33 14 13 13-1179	EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	570.52		70.23
33 14 13 13-1180	EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	707.14		76.84
33 14 13 13-1181	EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	835.49		86.44
33 14 13 13-1182	EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	1,161.52		93.74
33 14 13 13-1183	Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1101)			
33 14 13 13-1184	EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400).....	251.20		78.58
33 14 13 13-1185	EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600).....	331.48		95.93
33 14 13 13-1186	EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800).....	426.80		117.00
33 14 13 13-1187	EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000).....	643.31		142.73
33 14 13 13-1188	EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200).....	797.94		174.05
33 14 13 13-1189	EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400).....	1,375.91		212.35
33 14 13 13-1190	EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600).....	1,570.75		259.15
33 14 13 13-1191	EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800).....	1,783.05		316.07
33 14 13 13-1192	EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000).....	2,423.96		385.69
33 14 13 13-1193	EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400).....	3,091.71		470.44
33 14 13 13-1194	EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000).....	5,337.09		574.06
33 14 13 13-1195	EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600).....	7,573.02		700.25
33 14 13 13-1196	EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200).....	13,758.08		854.39
33 14 13 13-1197	EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800).....	17,798.93		1,042.29
33 14 13 13-1198	Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-1199 Ductile Iron Pipe Repair (33 14 13 13-1198)			
Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.			
33 14 13 13-1200	EA 30" Diameter Mechanical Ductile Iron Push Joint	4,408.97	
33 14 13 13-1201	EA 36" Diameter Mechanical Ductile Iron Push Joint	5,637.38	
33 14 13 13-1202	EA 42" Diameter Mechanical Ductile Iron Push Joint	7,248.67	
33 14 13 13-1203	EA 48" Diameter Mechanical Ductile Iron Push Joint	9,131.48	
33 14 13 13-1204	EA 54" Diameter Mechanical Ductile Iron Push Joint	13,353.10	
33 14 13 13-1205 WEKO Seals (33 14 13 13-1198)			
Note: Internal joint seal.			
33 14 13 13-1206	EA 16" WEKO Internal Joint Seal	2,632.22	220.62
	For Extra Wide Seals, Add	86.72	
33 14 13 13-1207	EA 18" WEKO Internal Joint Seal	2,805.30	232.96
	For Extra Wide Seals, Add	87.65	
33 14 13 13-1208	EA 20" WEKO Internal Joint Seal	2,978.18	245.31
	For Extra Wide Seals, Add	88.58	
33 14 13 13-1209	EA 24" WEKO Internal Joint Seal	3,152.72	264.93
	For Extra Wide Seals, Add	90.07	
33 14 13 13-1210	EA 30" WEKO Internal Joint Seal	3,248.99	284.55
	For Extra Wide Seals, Add	91.56	
33 14 13 13-1211	EA 36" WEKO Internal Joint Seal	3,403.55	309.08
	For Extra Wide Seals, Add	93.42	
33 14 13 13-1212	EA 42" WEKO Internal Joint Seal	3,624.28	338.52
	For Extra Wide Seals, Add	95.65	
33 14 13 13-1213	EA 48" WEKO Internal Joint Seal	3,915.82	363.04
	For Extra Wide Seals, Add	97.50	
33 14 13 13-1214	EA 54" WEKO Internal Joint Seal	4,059.05	382.68
	For Extra Wide Seals, Add	98.99	
33 14 13 13-1215	EA 60" WEKO Internal Joint Seal	4,224.99	412.11
	For Extra Wide Seals, Add	101.22	
33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)			
Note: Includes detectable tracer wire.			
33 14 13 23-0001 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)			
33 14 13 23-0002 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0001)			
33 14 13 23-0003	LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.57	0.91
	For >1,000, Deduct	-0.13	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.05	
33 14 13 23-0004	LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	2.84	0.98
	For >1,000, Deduct	-0.14	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0005	LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.32	1.07
	For >1,000, Deduct	-0.17	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.10	
33 14 13 23-0006	LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	3.82	1.18
	For >1,000, Deduct	-0.19	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13	
33 14 13 23-0007	LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	4.91	1.32
	For >1,000, Deduct	-0.25	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.24	
33 14 13 23-0008	LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	6.32	1.50
	For >1,000, Deduct	-0.32	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.38	
33 14 13 23-0009	LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	7.65	1.66
	For >1,000, Deduct	-0.38	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.52	
33 14 13 23-0010	LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	10.84	2.05
	For >1,000, Deduct	-0.54	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.86	
33 14 13 23-0011	LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	18.94	2.60
	For >1,000, Deduct	-0.95	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.86	
33 14 13 23-0012	LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	30.19	3.65
	For >1,000, Deduct	-1.51	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	3.16	
33 14 13 23-0013	LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	44.97	4.88
	For >1,000, Deduct	-2.25	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	4.92	
33 14 13 23-0014	LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	62.60	6.57
	For >1,000, Deduct	-3.13	
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	6.93	
33 14 13 23-0015 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)			
33 14 13 23-0016	EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	27.64	10.91
33 14 13 23-0017	EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	34.94	13.65
33 14 13 23-0018	EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	43.98	17.06
33 14 13 23-0019	EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	65.34	18.87
33 14 13 23-0020	EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	70.80	21.15
33 14 13 23-0021	EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	83.68	23.99



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 14 13 23-0022	EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	93.26		26.70	
33 14 13 23-0023	EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	129.04		32.78	
33 14 13 23-0024	EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	185.28		41.66	
33 14 13 23-0025	EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	298.79		54.69	
33 14 13 23-0026	EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	368.01		73.16	
33 14 13 23-0027	EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	486.64		98.47	
33 14 13 23-0028 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)					
33 14 13 23-0029	EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	28.12		10.91	
33 14 13 23-0030	EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	35.28		13.65	
33 14 13 23-0031	EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	44.19		17.06	
33 14 13 23-0032	EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	58.97		18.87	
33 14 13 23-0033	EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	71.39		21.15	
33 14 13 23-0034	EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	86.08		23.99	
33 14 13 23-0035	EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	92.25		26.70	
33 14 13 23-0036	EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	126.85		32.78	
33 14 13 23-0037	EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	180.86		41.66	
33 14 13 23-0038	EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	290.37		54.69	
33 14 13 23-0039	EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	333.11		73.16	
33 14 13 23-0040	EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	438.34		98.47	
33 14 13 23-0041 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)					
33 14 13 23-0042	EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	41.43		16.38	
33 14 13 23-0043	EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	52.28		20.58	
33 14 13 23-0044	EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	65.54		25.71	
33 14 13 23-0045	EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	90.18		28.43	
33 14 13 23-0046	EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	102.57		31.62	
33 14 13 23-0047	EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	119.30		36.05	
33 14 13 23-0048	EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	142.60		39.95	
33 14 13 23-0049	EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	187.07		49.24	
33 14 13 23-0050	EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	308.43		62.59	
33 14 13 23-0051	EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	461.18		82.03	
33 14 13 23-0052	EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	551.18		117.13	
33 14 13 23-0053	EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	690.66		157.61	
33 14 13 23-0054 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0001)					
33 14 13 23-0055	EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	18.50		7.28	
33 14 13 23-0056	EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	24.97		9.78	
33 14 13 23-0057	EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	33.32		12.85	
33 14 13 23-0058	EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	46.10		14.21	
33 14 13 23-0059	EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	50.85		15.81	
33 14 13 23-0060	EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	57.85		17.97	
33 14 13 23-0061	EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	65.99		19.97	
33 14 13 23-0062	EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	90.32		24.57	
33 14 13 23-0063	EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	128.81		31.29	
33 14 13 23-0064	EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	217.89		41.01	
33 14 13 23-0065	EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	261.90		58.62	
33 14 13 23-0066	EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	334.28		78.80	
33 14 13 23-0067 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)					
33 14 13 23-0068 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0067)					
33 14 13 23-0069	LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	2.82		0.91	
	For >1,000, Deduct	-0.14			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.08			
33 14 13 23-0070	LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.31		0.98	
	For >1,000, Deduct	-0.17			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.13			
33 14 13 23-0071	LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.26		1.18	
	For >1,000, Deduct	-0.21			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.20			
33 14 13 23-0072	LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.08		1.32	
	For >1,000, Deduct	-0.25			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.27			
33 14 13 23-0073	LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	6.58		1.50	
	For >1,000, Deduct	-0.33			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.42			
33 14 13 23-0074	LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	7.81		1.66	
	For >1,000, Deduct	-0.39			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.55			
33 14 13 23-0075	LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	10.39		2.05	
	For >1,000, Deduct	-0.52			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.79			
33 14 13 23-0076	LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	15.69		2.60	
	For >1,000, Deduct	-0.78			
	For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.38			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0077	Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0067)			
33 14 13 23-0078	EA	3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	27.81	10.91
33 14 13 23-0079	EA	1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	35.04	13.65
33 14 13 23-0080	EA	1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	48.70	18.87
33 14 13 23-0081	EA	2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	55.00	21.15
33 14 13 23-0082	EA	2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	65.93	23.99
33 14 13 23-0083	EA	3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	73.84	26.70
33 14 13 23-0084	EA	4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	96.54	32.78
33 14 13 23-0085	EA	6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	150.47	41.66
33 14 13 23-0086	Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0067)			
33 14 13 23-0087	EA	3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	27.77	10.91
33 14 13 23-0088	EA	1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	35.00	13.65
33 14 13 23-0089	EA	1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	48.72	18.87
33 14 13 23-0090	EA	2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	54.83	21.15
33 14 13 23-0091	EA	2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	65.48	23.99
33 14 13 23-0092	EA	3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	73.31	26.70
33 14 13 23-0093	EA	4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	95.47	32.78
33 14 13 23-0094	EA	6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	147.05	41.66
33 14 13 23-0095	Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0067)			
33 14 13 23-0096	EA	3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	41.61	16.38
33 14 13 23-0097	EA	1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	52.42	20.58
33 14 13 23-0098	EA	1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	72.85	28.43
33 14 13 23-0099	EA	2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	81.90	31.62
33 14 13 23-0100	EA	2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	99.15	36.05
33 14 13 23-0101	EA	3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	112.95	39.95
33 14 13 23-0102	EA	4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	140.44	49.24
33 14 13 23-0103	EA	6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC)	229.01	62.59
33 14 13 23-0104	Schedule 40 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0067)			
33 14 13 23-0105	EA	3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	18.59	7.28
33 14 13 23-0106	EA	1" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	25.04	9.78
33 14 13 23-0107	EA	1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	36.32	14.21
33 14 13 23-0108	EA	2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	40.94	15.81
33 14 13 23-0109	EA	2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	48.00	17.97
33 14 13 23-0110	EA	3" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	54.57	19.97
33 14 13 23-0111	EA	4" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	67.60	24.57
33 14 13 23-0112	EA	6" Coupling, Schedule 40 Polyvinyl Chloride (PVC)	99.27	31.29
33 14 13 23-0113	Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0067)			
33 14 13 23-0114	EA	3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	55.64	21.84
33 14 13 23-0115	EA	1" Cross, Schedule 40 Polyvinyl Chloride (PVC)	69.80	27.41
33 14 13 23-0116	EA	1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	97.11	37.87
33 14 13 23-0117	EA	2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	109.19	42.20
33 14 13 23-0118	EA	2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC)	132.16	47.99
33 14 13 23-0119	EA	3" Cross, Schedule 40 Polyvinyl Chloride (PVC)	150.52	53.30
33 14 13 23-0120	EA	4" Cross, Schedule 40 Polyvinyl Chloride (PVC)	187.14	65.58
33 14 13 23-0121	EA	6" Cross, Schedule 40 Polyvinyl Chloride (PVC)	304.92	83.42
33 14 13 23-0122	Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)			
33 14 13 23-0123	Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0122)			
33 14 13 23-0124	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pipe	3.58	0.98
		For >1,000, Deduct	-0.18	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.17	
33 14 13 23-0125	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	4.79	1.18
		For >1,000, Deduct	-0.24	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.28	
33 14 13 23-0126	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	5.98	1.32
		For >1,000, Deduct	-0.30	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.40	
33 14 13 23-0127	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe	7.75	1.50
		For >1,000, Deduct	-0.39	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.60	
33 14 13 23-0128	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pipe	9.46	1.66
		For >1,000, Deduct	-0.47	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.80	
33 14 13 23-0129	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pipe	12.91	2.05
		For >1,000, Deduct	-0.65	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.17	
33 14 13 23-0130	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pipe	21.29	2.60
		For >1,000, Deduct	-1.06	
		For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.22	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0131 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0122)		
33 14 13 23-0132 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	36.43	13.65
33 14 13 23-0133 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	48.70	18.87
33 14 13 23-0134 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	56.39	21.15
33 14 13 23-0135 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	68.89	23.99
33 14 13 23-0136 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	76.59	26.70
33 14 13 23-0137 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	97.20	32.78
33 14 13 23-0138 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	147.34	41.66
33 14 13 23-0139 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0122)		
33 14 13 23-0140 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	42.14	13.65
33 14 13 23-0141 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	54.20	18.87
33 14 13 23-0142 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	61.68	21.15
33 14 13 23-0143 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	78.80	23.99
33 14 13 23-0144 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	89.50	26.70
33 14 13 23-0145 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	123.16	32.78
33 14 13 23-0146 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	145.60	41.66
33 14 13 23-0147 Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0122)		
33 14 13 23-0148 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	55.34	20.58
33 14 13 23-0149 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	81.72	28.43
33 14 13 23-0150 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	92.48	31.62
33 14 13 23-0151 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	104.75	36.05
33 14 13 23-0152 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	118.31	39.95
33 14 13 23-0153 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	144.30	49.24
33 14 13 23-0154 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	228.87	62.59
33 14 13 23-0155 Schedule 80 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0122)		
33 14 13 23-0156 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	27.13	9.78
33 14 13 23-0157 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	39.91	14.21
33 14 13 23-0158 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	44.31	15.81
33 14 13 23-0159 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	56.66	17.97
33 14 13 23-0160 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	63.31	19.97
33 14 13 23-0161 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	78.21	24.57
33 14 13 23-0162 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling.....	114.09	31.29
33 14 13 23-0163 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0122)		
33 14 13 23-0164 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	73.68	27.41
33 14 13 23-0165 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	108.89	37.87
33 14 13 23-0166 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	123.23	42.20
33 14 13 23-0167 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	139.59	47.99
33 14 13 23-0168 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	157.63	53.30
33 14 13 23-0169 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	192.27	65.58
33 14 13 23-0170 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross.....	304.74	83.42
33 14 13 23-0171 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0172 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe (33 14 13 23-0171)		
33 14 13 23-0173 LF 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	58.88	3.50
33 14 13 23-0174 LF 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	83.83	3.77
33 14 13 23-0175 LF 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	113.21	4.37
33 14 13 23-0176 LF 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	154.21	5.60
33 14 13 23-0177 LF 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe.....	176.48	6.82
33 14 13 23-0178 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (33 14 13 23-0171)		
33 14 13 23-0179 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	746.35	50.80
33 14 13 23-0180 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	1,569.78	85.17
33 14 13 23-0181 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	2,730.33	92.97
33 14 13 23-0182 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	6,465.58	100.58
33 14 13 23-0183 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	8,753.85	108.21
33 14 13 23-0184 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (33 14 13 23-0171)		
33 14 13 23-0185 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	1,046.67	50.80
33 14 13 23-0186 EA 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	1,266.81	85.17
33 14 13 23-0187 EA 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	1,712.14	92.97
33 14 13 23-0188 EA 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	3,346.88	100.58
33 14 13 23-0189 EA 16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	4,788.53	108.21
33 14 13 23-0190 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (33 14 13 23-0171)		
33 14 13 23-0191 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	1,447.23	81.28

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0192	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	2,133.78	121.47
33 14 13 23-0193	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	2,821.54	129.55
33 14 13 23-0194	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	6,868.16	137.17
33 14 13 23-0195	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	9,683.70	144.77
33 14 13 23-0196		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees (33 14 13 23-0171)		
33 14 13 23-0197	EA	8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,422.37	77.21
33 14 13 23-0198	EA	10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,550.35	109.62
33 14 13 23-0199	EA	10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	1,768.87	115.40
33 14 13 23-0200	EA	12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,006.45	111.07
33 14 13 23-0201	EA	12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,227.66	116.91
33 14 13 23-0202	EA	12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	2,541.31	123.07
33 14 13 23-0203	EA	14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	4,940.43	111.73
33 14 13 23-0204	EA	14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	5,322.75	117.60
33 14 13 23-0205	EA	14" x 14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	5,809.94	123.79
33 14 13 23-0206	EA	14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,372.83	130.31
33 14 13 23-0207	EA	16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,000.53	112.03
33 14 13 23-0208	EA	16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	6,689.44	117.93
33 14 13 23-0209	EA	16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	7,232.02	124.14
33 14 13 23-0210	EA	16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	8,068.50	130.66
33 14 13 23-0211	EA	16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee	8,945.12	137.54
33 14 13 23-0212		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wyes (33 14 13 23-0171)		
33 14 13 23-0213	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	1,461.62	81.28
33 14 13 23-0214	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	2,465.49	121.47
33 14 13 23-0215	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	3,334.97	129.55
33 14 13 23-0216	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	10,811.74	137.17
33 14 13 23-0217	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Wye.....	13,493.24	144.77
33 14 13 23-0218		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wyes (33 14 13 23-0171)		
33 14 13 23-0219	EA	8" x 8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	1,272.76	77.21
33 14 13 23-0220	EA	10" x 10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	1,772.09	109.62
33 14 13 23-0221	EA	10" x 10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,052.54	115.40
33 14 13 23-0222	EA	12" x 12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,363.56	111.07
33 14 13 23-0223	EA	12" x 12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	2,493.96	116.91
33 14 13 23-0224	EA	12" x 12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	3,018.34	123.07
33 14 13 23-0225	EA	14" x 14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	5,208.90	111.73
33 14 13 23-0226	EA	14" x 14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	5,626.56	117.60
33 14 13 23-0227	EA	14" x 14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	6,822.05	130.31
33 14 13 23-0228	EA	16" x 16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	6,226.46	112.03
33 14 13 23-0229	EA	16" x 16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	7,199.47	117.93
33 14 13 23-0230	EA	16" x 16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	8,070.18	124.14
33 14 13 23-0231	EA	16" x 16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	8,742.58	130.66
33 14 13 23-0232	EA	16" x 16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Wye	10,930.83	137.54
33 14 13 23-0233		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (33 14 13 23-0171)		
33 14 13 23-0234	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	677.59	50.80
33 14 13 23-0235	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	918.95	85.17
33 14 13 23-0236	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	1,272.82	92.97
33 14 13 23-0237	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	2,528.45	100.58
33 14 13 23-0238	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling.....	3,767.01	108.21
33 14 13 23-0239		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Couplings (33 14 13 23-0171)		
33 14 13 23-0240	EA	8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	921.89	48.25
33 14 13 23-0241	EA	10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	677.75	45.84
33 14 13 23-0242	EA	10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	940.17	80.92
33 14 13 23-0243	EA	12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,820.01	76.87
33 14 13 23-0244	EA	12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,696.52	73.02
33 14 13 23-0245	EA	12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,331.99	69.38
33 14 13 23-0246	EA	12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	838.57	88.31
33 14 13 23-0247	EA	14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	2,441.65	83.90
33 14 13 23-0248	EA	14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	2,057.42	79.70
33 14 13 23-0249	EA	14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,779.69	75.71
33 14 13 23-0250	EA	14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	1,630.15	95.54
33 14 13 23-0251	EA	16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,223.27	90.77
33 14 13 23-0252	EA	16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,640.41	86.23
33 14 13 23-0253	EA	16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,485.29	81.92
33 14 13 23-0254	EA	16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,303.65	77.83
33 14 13 23-0255	EA	16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Coupling	3,019.28	102.80
33 14 13 23-0256		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Couplings (33 14 13 23-0171)		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 14 13 23-0257	EA	8" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	815.82	86.23
33 14 13 23-0258	EA	10" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,436.55	81.92
33 14 13 23-0259	EA	10" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,089.74	81.92
33 14 13 23-0260	EA	12" x 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,782.38	77.83
33 14 13 23-0261	EA	12" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,875.83	73.94
33 14 13 23-0262	EA	12" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,788.35	70.24
33 14 13 23-0263	EA	12" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,637.82	77.83
33 14 13 23-0264	EA	14" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,984.26	73.94
33 14 13 23-0265	EA	14" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,920.37	70.24
33 14 13 23-0266	EA	14" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	2,123.36	66.72
33 14 13 23-0267	EA	14" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	1,971.10	73.94
33 14 13 23-0268	EA	16" x 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,288.88	70.24
33 14 13 23-0269	EA	16" x 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,110.67	66.72
33 14 13 23-0270	EA	16" x 10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	5,011.58	63.39
33 14 13 23-0271	EA	16" x 12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	4,812.88	60.22
33 14 13 23-0272	EA	16" x 14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Eccentric Reducing Coupling.....	4,533.58	97.66
33 14 13 23-0273 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flanges (33 14 13 23-0171)				
33 14 13 23-0274	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	899.39	50.80
33 14 13 23-0275	EA	10" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	2,072.35	85.17
33 14 13 23-0276	EA	12" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	3,022.51	92.97
33 14 13 23-0277	EA	14" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	3,395.43	100.58
33 14 13 23-0278	EA	16" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Flange.....	4,200.52	108.21
33 14 13 23-0279	EA	8" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	28.15	
33 14 13 23-0280	EA	10" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	36.68	
33 14 13 23-0281	EA	12" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	50.48	
33 14 13 23-0282	EA	14" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	107.98	
33 14 13 23-0283	EA	16" Ethylene Propylene Diene Monomer (EPDM) Flange Gasket.....	191.57	
33 14 13 23-0284	EA	Zinc Coated Flange Hardware Kit.....	179.88	
33 14 13 23-0285 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23)				
Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.				
33 14 13 23-0286 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0287	LF	4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	11.38	3.97
33 14 13 23-0288	LF	6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	16.62	4.81
33 14 13 23-0289	LF	8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	22.90	5.41
33 14 13 23-0290	LF	10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	30.24	6.01
33 14 13 23-0291	LF	12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	39.26	6.73
33 14 13 23-0292 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0293	LF	4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	12.61	3.97
33 14 13 23-0294	LF	6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	19.18	4.81
33 14 13 23-0295	LF	8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	27.20	5.41
33 14 13 23-0296	LF	10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	36.93	6.01
33 14 13 23-0297	LF	12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	48.60	6.73
33 14 13 23-0298 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0299	LF	4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	13.82	3.97
33 14 13 23-0300	LF	6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	21.72	4.81
33 14 13 23-0301	LF	8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	31.50	5.41
33 14 13 23-0302	LF	10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	43.47	6.01
33 14 13 23-0303	LF	12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	57.94	6.73
33 14 13 23-0304 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0305	LF	18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	61.65	10.10
33 14 13 23-0306	LF	20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	75.21	12.02
33 14 13 23-0307	LF	24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	101.11	14.43
33 14 13 23-0308	LF	30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	146.60	16.83
33 14 13 23-0309	LF	36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	202.87	19.23
33 14 13 23-0310	LF	42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	257.56	20.44
33 14 13 23-0311	LF	48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	326.73	21.99
33 14 13 23-0312 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)				
33 14 13 23-0313	LF	14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	45.51	7.58
33 14 13 23-0314	LF	16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	57.22	8.41
33 14 13 23-0315	LF	18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	71.00	10.10
33 14 13 23-0316	LF	20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	87.35	12.02
33 14 13 23-0317	LF	24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	119.83	14.43
33 14 13 23-0318	LF	30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	173.45	16.83
33 14 13 23-0319	LF	36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	238.82	19.23
33 14 13 23-0320	LF	42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	317.35	20.44
33 14 13 23-0321	LF	48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	404.31	21.99

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 23-0322		AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0323	LF	14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	52.70	7.58
33 14 13 23-0324	LF	16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	67.21	8.41
33 14 13 23-0325	LF	18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	83.40	10.10
33 14 13 23-0326	LF	20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	103.44	12.02
33 14 13 23-0327	LF	24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	142.93	14.43
33 14 13 23-0328	LF	30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	208.16	16.83
33 14 13 23-0329	LF	36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	289.49	19.23
33 14 13 23-0330	LF	42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	377.38	20.44
33 14 13 23-0331	LF	48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	482.64	21.99
33 14 13 23-0332		AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0333	LF	14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	65.00	7.58
33 14 13 23-0334	LF	16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	81.81	8.41
33 14 13 23-0335	LF	18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	102.20	10.10
33 14 13 23-0336	LF	20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	126.15	12.02
33 14 13 23-0337	LF	24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	175.68	14.43
33 14 13 23-0338	LF	30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	259.55	16.83
33 14 13 23-0339	LF	36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	368.50	19.23
33 14 13 23-0340	LF	42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	493.24	20.44
33 14 13 23-0341	LF	48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	638.12	21.99
33 14 13 23-0342		AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0343	LF	14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	74.24	7.58
33 14 13 23-0344	LF	16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	93.83	8.41
33 14 13 23-0345	LF	18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	117.37	10.10
33 14 13 23-0346	LF	20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	145.03	12.02
33 14 13 23-0347	LF	24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	202.84	14.43
33 14 13 23-0348	LF	30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	301.34	16.83
33 14 13 23-0349	LF	36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	429.55	19.23
33 14 13 23-0350	LF	42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	576.92	20.44
33 14 13 23-0351		AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0285)		
33 14 13 23-0352	LF	14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	83.24	7.58
33 14 13 23-0353	LF	16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	105.53	8.41
33 14 13 23-0354	LF	18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	132.10	10.10
33 14 13 23-0355	LF	20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	163.41	12.02
33 14 13 23-0356	LF	24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	229.27	14.43
33 14 13 23-0357	LF	30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	342.00	16.83
33 14 13 23-0358	LF	36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	488.96	19.23
33 14 13 23-0359		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)		
Note: Includes rubber gaskets.				
33 14 13 23-0360		90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)		
33 14 13 23-0361	EA	4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	217.43	13.65
	For DR 25, Deduct		-11.41	
33 14 13 23-0362	EA	6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	445.74	15.35
	For DR 25, Deduct		-24.90	
33 14 13 23-0363	EA	8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	669.82	17.06
	For DR 25, Deduct		-38.14	
33 14 13 23-0364	EA	10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,023.40	27.37
	For DR 25, Deduct		-58.12	
33 14 13 23-0365	EA	12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,331.56	45.61
	For DR 25, Deduct		-74.42	
33 14 13 23-0366	EA	14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,000.00	57.02
	For DR 25, Deduct		-113.16	
33 14 13 23-0367	EA	16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,386.74	68.43
	For DR 25, Deduct		-134.99	
33 14 13 23-0368	EA	18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,096.30	91.24
	For DR 25, Deduct		-234.83	
33 14 13 23-0369	EA	20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,042.64	114.05
	For DR 25, Deduct		-288.87	
33 14 13 23-0370	EA	24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	8,371.72	153.96
	For DR 25, Deduct		-483.83	
33 14 13 23-0371		45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)		
33 14 13 23-0372	EA	4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	192.60	13.65
	For DR 25, Deduct		-9.92	
33 14 13 23-0373	EA	6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	333.15	15.35
	For DR 25, Deduct		-18.15	
33 14 13 23-0374	EA	8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	422.29	17.06
	For DR 25, Deduct		-23.29	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 23-0375	EA 10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	597.70		27.37
	For DR 25, Deduct	-32.58		
33 14 13 23-0376	EA 12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	798.86		45.61
	For DR 25, Deduct	-42.46		
33 14 13 23-0377	EA 14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,536.64		57.02
	For DR 25, Deduct	-85.35		
33 14 13 23-0378	EA 16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,947.76		68.43
	For DR 25, Deduct	-108.65		
33 14 13 23-0379	EA 18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,362.37		91.24
	For DR 25, Deduct	-190.79		
33 14 13 23-0380	EA 20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,176.20		114.05
	For DR 25, Deduct	-236.89		
33 14 13 23-0381	EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,893.63		153.96
	For DR 25, Deduct	-335.14		
33 14 13 23-0382 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)				
33 14 13 23-0383	EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	189.58		13.65
	For DR 25, Deduct	-9.74		
33 14 13 23-0384	EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	333.15		15.35
	For DR 25, Deduct	-18.15		
33 14 13 23-0385	EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	422.29		17.06
	For DR 25, Deduct	-23.29		
33 14 13 23-0386	EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	597.71		27.37
	For DR 25, Deduct	-32.58		
33 14 13 23-0387	EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	798.87		45.61
	For DR 25, Deduct	-42.46		
33 14 13 23-0388	EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,532.05		54.74
	For DR 25, Deduct	-85.35		
33 14 13 23-0389	EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,947.74		68.43
	For DR 25, Deduct	-108.65		
33 14 13 23-0390	EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,362.37		91.24
	For DR 25, Deduct	-190.79		
33 14 13 23-0391	EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,176.20		114.05
	For DR 25, Deduct	-236.89		
33 14 13 23-0392	EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,893.63		153.96
	For DR 25, Deduct	-335.14		
33 14 13 23-0393 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)				
33 14 13 23-0394	EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	167.35		13.65
	For DR 25, Deduct	-8.40		
33 14 13 23-0395	EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	333.15		15.35
	For DR 25, Deduct	-18.15		
33 14 13 23-0396	EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	422.29		17.06
	For DR 25, Deduct	-23.29		
33 14 13 23-0397	EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	597.71		27.37
	For DR 25, Deduct	-32.58		
33 14 13 23-0398	EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	798.87		45.61
	For DR 25, Deduct	-42.46		
33 14 13 23-0399	EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,532.05		54.74
	For DR 25, Deduct	-85.35		
33 14 13 23-0400	EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,947.74		68.43
	For DR 25, Deduct	-108.65		
33 14 13 23-0401	EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,362.37		91.24
	For DR 25, Deduct	-190.79		
33 14 13 23-0402	EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,176.20		114.05
	For DR 25, Deduct	-236.89		
33 14 13 23-0403	EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,893.63		153.96
	For DR 25, Deduct	-335.14		
33 14 13 23-0404 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)				
33 14 13 23-0405	EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	258.45		15.35
	For DR 25, Deduct	-13.67		
33 14 13 23-0406	EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	499.71		17.06
	For DR 25, Deduct	-27.94		
33 14 13 23-0407	EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	697.51		19.33
	For DR 25, Deduct	-39.53		
33 14 13 23-0408	EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,439.11		34.22
	For DR 25, Deduct	-82.24		
33 14 13 23-0409	EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,755.88		68.43
	For DR 25, Deduct	-97.14		
33 14 13 23-0410	EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,172.09		85.53
	For DR 25, Deduct	-180.06		
33 14 13 23-0411	EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,929.02		102.64
	For DR 25, Deduct	-223.42		
33 14 13 23-0412	EA 18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,957.32		136.85
	For DR 25, Deduct	-281.02		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0413	EA	20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,952.97	171.07
		<i>For DR 25, Deduct</i>	-336.65	
33 14 13 23-0414	EA	24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	8,170.08	116.33
		<i>For DR 25, Deduct</i>	-476.25	
33 14 13 23-0415 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)				
33 14 13 23-0416	EA	6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	497.35	22.17
		<i>For DR 25, Deduct</i>	-27.18	
33 14 13 23-0417	EA	8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	676.77	23.88
		<i>For DR 25, Deduct</i>	-37.74	
33 14 13 23-0418	EA	8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	693.72	24.74
		<i>For DR 25, Deduct</i>	-38.65	
33 14 13 23-0419	EA	10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	900.80	34.22
		<i>For DR 25, Deduct</i>	-49.94	
33 14 13 23-0420	EA	10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,220.25	35.06
		<i>For DR 25, Deduct</i>	-69.01	
33 14 13 23-0421	EA	10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,305.43	35.92
		<i>For DR 25, Deduct</i>	-74.01	
33 14 13 23-0422	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,383.64	52.47
		<i>For DR 25, Deduct</i>	-76.72	
33 14 13 23-0423	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,588.46	53.31
		<i>For DR 25, Deduct</i>	-88.91	
33 14 13 23-0424	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,685.24	54.17
		<i>For DR 25, Deduct</i>	-94.61	
33 14 13 23-0425	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,716.88	59.31
		<i>For DR 25, Deduct</i>	-95.90	
33 14 13 23-0426	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,608.10	61.58
		<i>For DR 25, Deduct</i>	-149.10	
33 14 13 23-0427	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,713.04	62.44
		<i>For DR 25, Deduct</i>	-155.29	
33 14 13 23-0428	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,818.25	63.30
		<i>For DR 25, Deduct</i>	-161.50	
33 14 13 23-0429	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,931.40	68.43
		<i>For DR 25, Deduct</i>	-167.67	
33 14 13 23-0430	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,052.94	77.55
		<i>For DR 25, Deduct</i>	-173.87	
33 14 13 23-0431	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,254.86	75.27
		<i>For DR 25, Deduct</i>	-186.26	
33 14 13 23-0432	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,358.06	75.27
		<i>For DR 25, Deduct</i>	-192.45	
33 14 13 23-0433	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,463.01	76.12
		<i>For DR 25, Deduct</i>	-198.65	
33 14 13 23-0434	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,567.97	76.98
		<i>For DR 25, Deduct</i>	-204.84	
33 14 13 23-0435	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,699.68	91.24
		<i>For DR 25, Deduct</i>	-211.03	
33 14 13 23-0436	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,812.03	95.80
		<i>For DR 25, Deduct</i>	-217.23	
33 14 13 23-0437	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,022.35	98.08
		<i>For DR 25, Deduct</i>	-229.57	
33 14 13 23-0438	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,128.02	98.94
		<i>For DR 25, Deduct</i>	-235.81	
33 14 13 23-0439	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,232.96	99.79
		<i>For DR 25, Deduct</i>	-242.00	
33 14 13 23-0440	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,346.45	104.92
		<i>For DR 25, Deduct</i>	-248.20	
33 14 13 23-0441	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,467.89	114.05
		<i>For DR 25, Deduct</i>	-254.39	
33 14 13 23-0442	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,579.55	118.60
		<i>For DR 25, Deduct</i>	-260.54	
33 14 13 23-0443	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,721.41	125.45
		<i>For DR 25, Deduct</i>	-268.23	
33 14 13 23-0444	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,101.66	120.89
		<i>For DR 25, Deduct</i>	-291.59	
33 14 13 23-0445	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,279.64	121.75
		<i>For DR 25, Deduct</i>	-302.17	
33 14 13 23-0446	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,349.70	122.59
		<i>For DR 25, Deduct</i>	-306.27	
33 14 13 23-0447	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,428.38	127.73
		<i>For DR 25, Deduct</i>	-310.38	
33 14 13 23-0448	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,515.00	136.85
		<i>For DR 25, Deduct</i>	-314.48	
33 14 13 23-0449	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,634.94	141.42
		<i>For DR 25, Deduct</i>	-321.13	
33 14 13 23-0450	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,759.48	148.26
		<i>For DR 25, Deduct</i>	-327.78	
33 14 13 23-0451	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,856.22	159.66
		<i>For DR 25, Deduct</i>	-332.21	
33 14 13 23-0452	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,006.34	160.80
		<i>For DR 25, Deduct</i>	-341.08	
33 14 13 23-0453	EA	24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,082.02	161.66
		<i>For DR 25, Deduct</i>	-345.52	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0454	EA	24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,157.67	162.51
		For DR 25, Deduct	-349.96	
33 14 13 23-0455	EA	24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,468.62	167.64
		For DR 25, Deduct	-368.00	
33 14 13 23-0456	EA	24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,787.52	176.77
		For DR 25, Deduct	-386.04	
33 14 13 23-0457	EA	24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,097.33	181.34
		For DR 25, Deduct	-404.08	
33 14 13 23-0458	EA	24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,411.71	188.18
		For DR 25, Deduct	-422.12	
33 14 13 23-0459	EA	24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,735.21	199.58
		For DR 25, Deduct	-440.16	
33 14 13 23-0460	EA	24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	8,058.70	210.98
		For DR 25, Deduct	-458.20	
33 14 13 23-0461 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)				
33 14 13 23-0462	EA	4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	358.26	27.29
		For DR 25, Deduct	-18.22	
33 14 13 23-0463	EA	6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	644.21	30.70
		For DR 25, Deduct	-34.97	
33 14 13 23-0464	EA	8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	892.20	34.11
		For DR 25, Deduct	-49.44	
33 14 13 23-0465	EA	10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,822.12	54.74
		For DR 25, Deduct	-102.76	
33 14 13 23-0466	EA	12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,161.05	68.43
		For DR 25, Deduct	-121.45	
33 14 13 23-0467	EA	14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,933.96	91.24
		For DR 25, Deduct	-225.09	
33 14 13 23-0468	EA	16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,882.00	114.05
		For DR 25, Deduct	-279.25	
33 14 13 23-0469	EA	18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,220.34	182.47
		For DR 25, Deduct	-351.32	
33 14 13 23-0470	EA	20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,469.83	228.09
		For DR 25, Deduct	-420.82	
33 14 13 23-0471	EA	24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	10,537.03	307.92
		For DR 25, Deduct	-595.27	
33 14 13 23-0472 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)				
33 14 13 23-0473	EA	6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	624.69	29.00
		For DR 25, Deduct	-34.00	
33 14 13 23-0474	EA	8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	848.65	30.70
		For DR 25, Deduct	-47.23	
33 14 13 23-0475	EA	8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	870.30	32.41
		For DR 25, Deduct	-48.33	
33 14 13 23-0476	EA	10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,306.34	41.06
		For DR 25, Deduct	-73.45	
33 14 13 23-0477	EA	10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,523.36	42.76
		For DR 25, Deduct	-86.27	
33 14 13 23-0478	EA	10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,673.52	44.48
		For DR 25, Deduct	-95.07	
33 14 13 23-0479	EA	12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,717.53	59.31
		For DR 25, Deduct	-95.94	
33 14 13 23-0480	EA	12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,974.23	61.01
		For DR 25, Deduct	-111.13	
33 14 13 23-0481	EA	12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,096.51	62.72
		For DR 25, Deduct	-118.26	
33 14 13 23-0482	EA	12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,143.67	72.99
		For DR 25, Deduct	-119.86	
33 14 13 23-0483	EA	14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,243.00	68.43
		For DR 25, Deduct	-186.37	
33 14 13 23-0484	EA	14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,375.08	70.14
		For DR 25, Deduct	-194.09	
33 14 13 23-0485	EA	14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,508.57	71.85
		For DR 25, Deduct	-201.89	
33 14 13 23-0486	EA	14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,658.64	82.11
		For DR 25, Deduct	-209.66	
33 14 13 23-0487	EA	14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,823.68	100.36
		For DR 25, Deduct	-217.38	
33 14 13 23-0488	EA	16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,044.00	82.11
		For DR 25, Deduct	-232.79	
33 14 13 23-0489	EA	16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,177.81	83.82
		For DR 25, Deduct	-240.61	
33 14 13 23-0490	EA	16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,310.20	85.53
		For DR 25, Deduct	-248.35	
33 14 13 23-0491	EA	16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,460.14	95.80
		For DR 25, Deduct	-256.11	
33 14 13 23-0492	EA	16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,533.29	114.05
		For DR 25, Deduct	-258.31	
33 14 13 23-0493	EA	16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,772.28	123.17
		For DR 25, Deduct	-271.56	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0494 EA 18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	4,993.22 -287.00	104.92
33 14 13 23-0495 EA 18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	5,126.73 -294.81	106.63
33 14 13 23-0496 EA 18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	5,259.31 -302.56	108.35
33 14 13 23-0497 EA 18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	5,407.33 -310.21	118.60
33 14 13 23-0498 EA 18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	5,573.91 -318.01	136.85
33 14 13 23-0499 EA 18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	5,720.72 -325.73	145.98
33 14 13 23-0500 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	5,908.08 -335.33	159.66
33 14 13 23-0501 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	6,330.94 -364.53	127.73
33 14 13 23-0502 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	6,554.32 -377.73	129.45
33 14 13 23-0503 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	6,643.82 -382.89	131.15
33 14 13 23-0504 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	6,749.48 -388.00	141.42
33 14 13 23-0505 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	6,871.13 -393.11	159.66
33 14 13 23-0506 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	7,026.95 -401.36	168.78
33 14 13 23-0507 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	7,194.66 -409.78	182.47
33 14 13 23-0508 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	7,332.43 -415.31	205.28
33 14 13 23-0509 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	7,400.19 -423.89	167.64
33 14 13 23-0510 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	7,537.53 -431.93	169.36
33 14 13 23-0511 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	7,633.77 -437.50	171.07
33 14 13 23-0512 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	8,029.71 -460.02	181.34
33 14 13 23-0513 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	8,441.76 -482.56	199.58
33 14 13 23-0514 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	8,835.48 -505.08	208.70
33 14 13 23-0515 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	9,239.94 -527.71	222.39
33 14 13 23-0516 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	9,660.23 -550.19	245.20
33 14 13 23-0517 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	10,082.14 -572.77	268.01
33 14 13 23-0518 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)		
33 14 13 23-0519 EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	129.69 -6.14	13.65
33 14 13 23-0520 EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	242.07 -12.68	15.35
33 14 13 23-0521 EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	291.41 -15.44	17.06
33 14 13 23-0522 EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	414.65 -21.59	27.37
33 14 13 23-0523 EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	659.80 -35.48	34.22
33 14 13 23-0524 EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	1,145.04 -63.23	45.61
33 14 13 23-0525 EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	1,356.37 -74.54	57.02
33 14 13 23-0526 EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	3,248.15 -183.94	91.24
33 14 13 23-0527 EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	3,641.15 -204.78	114.05
33 14 13 23-0528 EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	5,126.96 -289.14	153.96
33 14 13 23-0529 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0359)		
33 14 13 23-0530 EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	160.87 -8.01	13.65
33 14 13 23-0531 EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	218.66 -11.28	15.35
33 14 13 23-0532 EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	318.06 -17.04	17.06
33 14 13 23-0533 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)..... <i>For DR 25, Deduct</i>	435.44 -22.84	27.37



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 23-0534	EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	697.77		45.61
	For DR 25, Deduct	-36.39		
33 14 13 23-0535	EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,853.61		54.74
	For DR 25, Deduct	-104.65		
33 14 13 23-0536	EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,509.28		68.43
	For DR 25, Deduct	-142.35		
33 14 13 23-0537	EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,091.64		91.24
	For DR 25, Deduct	-174.55		
33 14 13 23-0538	EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,693.56		114.05
	For DR 25, Deduct	-207.93		
33 14 13 23-0539	EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,017.60		153.96
	For DR 25, Deduct	-282.58		
33 14 13 23-0540	AWWA C906, High-Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)			
	Note: ASTM D3350 pipe, ASTM D2657 heat fusion.			
33 14 13 23-0541	High-Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0540)			
33 14 13 23-0542	LF 3" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	8.08		3.12
	For SDR 19, Add	0.16		
	For SDR 17, Add	0.39		
	For SDR 15.5, Add	0.58		
	For SDR 13.5, Add	0.90		
	For SDR 11, Add	1.45		
33 14 13 23-0543	LF 4" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	9.58		3.97
	For SDR 26, Deduct	-0.30		
	For SDR 19, Add	0.15		
	For SDR 17, Add	0.36		
	For SDR 15.5, Add	0.53		
	For SDR 13.5, Add	0.83		
	For SDR 11, Add	1.34		
33 14 13 23-0544	LF 6" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	13.16		4.81
	For SDR 26, Deduct	-0.65		
	For SDR 19, Add	0.32		
	For SDR 17, Add	0.79		
	For SDR 15.5, Add	1.15		
	For SDR 13.5, Add	1.80		
	For SDR 11, Add	2.89		
33 14 13 23-0545	LF 8" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	16.83		5.41
	For SDR 26, Deduct	-1.10		
	For SDR 19, Add	0.54		
	For SDR 17, Add	1.34		
	For SDR 15.5, Add	1.96		
	For SDR 13.5, Add	3.05		
	For SDR 11, Add	4.91		
33 14 13 23-0546	LF 10" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	21.37		6.01
	For SDR 26, Deduct	-1.71		
	For SDR 19, Add	0.84		
	For SDR 17, Add	2.08		
	For SDR 15.5, Add	3.04		
	For SDR 13.5, Add	4.75		
	For SDR 11, Add	7.64		
33 14 13 23-0547	LF 12" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	26.82		6.73
	For SDR 26, Deduct	-2.47		
	For SDR 19, Add	1.21		
	For SDR 17, Add	3.00		
	For SDR 15.5, Add	4.39		
	For SDR 13.5, Add	6.85		
	For SDR 11, Add	11.02		
33 14 13 23-0548	LF 14" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	30.86		7.58
	For SDR 26, Deduct	-2.90		
	For SDR 19, Add	1.43		
	For SDR 17, Add	3.52		
	For SDR 15.5, Add	5.15		
	For SDR 13.5, Add	8.05		
	For SDR 11, Add	12.95		
33 14 13 23-0549	LF 16" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	37.53		8.41
	For SDR 26, Deduct	-3.79		
	For SDR 19, Add	1.86		
	For SDR 17, Add	4.60		
	For SDR 15.5, Add	6.74		
	For SDR 13.5, Add	10.51		
	For SDR 11, Add	16.92		
33 14 13 23-0550	LF 18" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	46.41		10.10
	For SDR 26, Deduct	-4.80		
	For SDR 19, Add	2.35		
	For SDR 17, Add	5.81		
	For SDR 15.5, Add	8.51		
	For SDR 13.5, Add	13.29		
	For SDR 11, Add	21.39		
33 14 13 23-0551	LF 20" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	81.02		12.02
	For SDR 26, Deduct	-10.44		
	For SDR 19, Add	5.13		
	For SDR 17, Add	12.66		
	For SDR 15.5, Add	18.54		
	For SDR 13.5, Add	28.94		
	For SDR 11, Add	46.58		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 14 13 23-0552	LF	24" DR 21, Butt Fusion Joint High-Density Polyethylene (HDPE) Pressure Pipe	75.40		14.43
		For SDR 26, Deduct	-8.53		
		For SDR 19, Add	4.19		
		For SDR 17, Add	10.34		
		For SDR 15.5, Add	15.15		
		For SDR 13.5, Add	23.64		
		For SDR 11, Add	38.05		
33 14 13 23-0553		90 Degree Elbows, High-Density Polyethylene (HDPE) Pressure Piping ^(33 14 13 23-0540)	64.94		17.06
33 14 13 23-0554	EA	3" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	64.94		
		For SDR 26, Deduct	-2.52		
		For SDR 19, Add	1.24		
		For SDR 17, Add	3.06		
		For SDR 15.5, Add	4.48		
		For SDR 13.5, Add	6.99		
		For SDR 11, Add	11.25		
33 14 13 23-0555	EA	4" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	73.26		18.97
		For SDR 26, Deduct	-3.00		
		For SDR 19, Add	1.48		
		For SDR 17, Add	3.64		
		For SDR 15.5, Add	5.33		
		For SDR 13.5, Add	8.32		
		For SDR 11, Add	13.40		
33 14 13 23-0556	EA	6" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	108.55		21.66
		For SDR 26, Deduct	-7.99		
		For SDR 19, Add	3.92		
		For SDR 17, Add	9.69		
		For SDR 15.5, Add	14.19		
		For SDR 13.5, Add	22.14		
		For SDR 11, Add	35.64		
33 14 13 23-0557	EA	8" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	166.97		25.30
		For SDR 26, Deduct	-16.70		
		For SDR 19, Add	8.20		
		For SDR 17, Add	20.25		
		For SDR 15.5, Add	29.65		
		For SDR 13.5, Add	46.28		
		For SDR 11, Add	74.50		
33 14 13 23-0558	EA	10" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	253.21		33.78
		For SDR 26, Deduct	-27.88		
		For SDR 19, Add	13.69		
		For SDR 17, Add	33.80		
		For SDR 15.5, Add	49.50		
		For SDR 13.5, Add	77.26		
		For SDR 11, Add	124.35		
33 14 13 23-0559	EA	12" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	374.33		50.55
		For SDR 26, Deduct	-40.83		
		For SDR 19, Add	20.05		
		For SDR 17, Add	49.49		
		For SDR 15.5, Add	72.48		
		For SDR 13.5, Add	113.13		
		For SDR 11, Add	182.09		
33 14 13 23-0560	EA	14" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	467.82		67.46
		For SDR 26, Deduct	-48.67		
		For SDR 19, Add	23.90		
		For SDR 17, Add	59.00		
		For SDR 15.5, Add	86.40		
		For SDR 13.5, Add	134.86		
		For SDR 11, Add	217.07		
33 14 13 23-0561	EA	16" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	621.17		101.10
		For SDR 26, Deduct	-58.29		
		For SDR 19, Add	28.62		
		For SDR 17, Add	70.66		
		For SDR 15.5, Add	103.47		
		For SDR 13.5, Add	161.50		
		For SDR 11, Add	259.95		
33 14 13 23-0562	EA	18" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	773.91		113.73
		For SDR 26, Deduct	-79.32		
		For SDR 19, Add	38.94		
		For SDR 17, Add	96.15		
		For SDR 15.5, Add	140.80		
		For SDR 13.5, Add	219.77		
		For SDR 11, Add	353.74		
33 14 13 23-0563	EA	20" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,041.91		129.08
		For SDR 26, Deduct	-119.28		
		For SDR 19, Add	58.56		
		For SDR 17, Add	144.59		
		For SDR 15.5, Add	211.74		
		For SDR 13.5, Add	330.50		
		For SDR 11, Add	531.96		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 13 23-0564	EA 24" 90 Degree Elbow, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,323.62		151.72
	For SDR 26, Deduct	-159.23		
	For SDR 19, Add	78.18		
	For SDR 17, Add	193.03		
	For SDR 15.5, Add	282.68		
	For SDR 13.5, Add	441.22		
	For SDR 11, Add	710.17		
33 14 13 23-0565 Tees, High-Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0540)				
33 14 13 23-0566	EA 3" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	71.45		17.86
	For SDR 26, Deduct	-3.30		
	For SDR 19, Add	1.62		
	For SDR 17, Add	4.00		
	For SDR 15.5, Add	5.85		
	For SDR 13.5, Add	9.14		
	For SDR 11, Add	14.71		
33 14 13 23-0567	EA 4" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	81.80		20.22
	For SDR 26, Deduct	-3.88		
	For SDR 19, Add	1.91		
	For SDR 17, Add	4.71		
	For SDR 15.5, Add	6.89		
	For SDR 13.5, Add	10.76		
	For SDR 11, Add	17.31		
33 14 13 23-0568	EA 6" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	125.31		23.33
	For SDR 26, Deduct	-10.15		
	For SDR 19, Add	4.98		
	For SDR 17, Add	12.30		
	For SDR 15.5, Add	18.01		
	For SDR 13.5, Add	28.12		
	For SDR 11, Add	45.26		
33 14 13 23-0569	EA 8" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	223.11		27.58
	For SDR 26, Deduct	-25.74		
	For SDR 19, Add	12.64		
	For SDR 17, Add	31.21		
	For SDR 15.5, Add	45.70		
	For SDR 13.5, Add	71.33		
	For SDR 11, Add	114.81		
33 14 13 23-0570	EA 10" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	306.35		40.49
	For SDR 26, Deduct	-33.91		
	For SDR 19, Add	16.65		
	For SDR 17, Add	41.11		
	For SDR 15.5, Add	60.21		
	For SDR 13.5, Add	93.97		
	For SDR 11, Add	151.25		
33 14 13 23-0571	EA 12" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	434.64		60.74
	For SDR 26, Deduct	-46.31		
	For SDR 19, Add	22.74		
	For SDR 17, Add	56.14		
	For SDR 15.5, Add	82.21		
	For SDR 13.5, Add	128.32		
	For SDR 11, Add	206.53		
33 14 13 23-0572	EA 14" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	524.68		75.85
	For SDR 26, Deduct	-54.48		
	For SDR 19, Add	26.75		
	For SDR 17, Add	66.04		
	For SDR 15.5, Add	96.72		
	For SDR 13.5, Add	150.96		
	For SDR 11, Add	242.98		
33 14 13 23-0573	EA 16" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	694.29		113.73
	For SDR 26, Deduct	-64.70		
	For SDR 19, Add	31.77		
	For SDR 17, Add	78.43		
	For SDR 15.5, Add	114.85		
	For SDR 13.5, Add	179.26		
	For SDR 11, Add	288.54		
33 14 13 23-0574	EA 18" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	887.81		132.50
	For SDR 26, Deduct	-89.89		
	For SDR 19, Add	44.14		
	For SDR 17, Add	108.97		
	For SDR 15.5, Add	159.58		
	For SDR 13.5, Add	249.08		
	For SDR 11, Add	400.91		
33 14 13 23-0575	EA 20" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,230.79		156.49
	For SDR 26, Deduct	-138.58		
	For SDR 19, Add	68.04		
	For SDR 17, Add	167.99		
	For SDR 15.5, Add	246.02		
	For SDR 13.5, Add	384.00		
	For SDR 11, Add	618.07		
33 14 13 23-0576	EA 24" Tee, DR 21 High-Density Polyethylene (HDPE) Pressure Piping	1,590.34		189.70
	For SDR 26, Deduct	-187.28		
	For SDR 19, Add	91.95		
	For SDR 17, Add	227.02		
	For SDR 15.5, Add	332.46		
	For SDR 13.5, Add	518.92		
	For SDR 11, Add	835.23		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)

See CSI section 22 11 16 00-0013 for galvanized steel pipe.

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)**33 14 13 36-0001 Steel Piping (33 14 13 36)****33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)**

Note: ASTM A252 steel pipe. See CSI section 33 14 13 43-0001 for pipe coatings, 33 14 13 43-0049 for pipe linings.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004	LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	103.50	30.43
	For <100, Add	12.09	
	For >1,000, Deduct	-5.18	
33 14 13 36-0005	LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	121.77	30.43
	For <100, Add	13.01	
	For >1,000, Deduct	-6.09	
33 14 13 36-0006	LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	122.15	33.19
	For <100, Add	13.65	
	For >1,000, Deduct	-6.11	
33 14 13 36-0007	LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	145.25	33.19
	For <100, Add	14.81	
	For >1,000, Deduct	-7.26	
33 14 13 36-0008	LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	146.10	34.78
	For <100, Add	15.21	
	For >1,000, Deduct	-7.31	
33 14 13 36-0009	LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	164.07	34.78
	For <100, Add	16.11	
	For >1,000, Deduct	-8.20	
33 14 13 36-0010	LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	175.80	38.43
	For <100, Add	17.53	
	For >1,000, Deduct	-8.79	
33 14 13 36-0011	LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	190.16	38.43
	For <100, Add	18.24	
	For >1,000, Deduct	-9.51	
33 14 13 36-0012	LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	186.50	40.57
	For <100, Add	18.54	
	For >1,000, Deduct	-9.33	
33 14 13 36-0013	LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	197.59	40.57
	For <100, Add	19.10	
	For >1,000, Deduct	-9.88	
33 14 13 36-0014	LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	229.60	45.64
	For <100, Add	21.85	
	For >1,000, Deduct	-11.48	
33 14 13 36-0015	LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	247.77	45.64
	For <100, Add	22.76	
	For >1,000, Deduct	-12.39	

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0017	LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	199.04	59.47
	For <100, Add	19.30	
	For >1,000, Deduct	-9.95	
33 14 13 36-0018	LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	235.16	65.41
	For <100, Add	22.09	
	For >1,000, Deduct	-11.76	
33 14 13 36-0019	LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	260.45	68.38
	For <100, Add	23.92	
	For >1,000, Deduct	-13.02	
33 14 13 36-0020	LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	293.76	77.31
	For <100, Add	26.95	
	For >1,000, Deduct	-14.69	
33 14 13 36-0021	LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	306.08	77.31
	For <100, Add	27.57	
	For >1,000, Deduct	-15.30	
33 14 13 36-0022	LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	317.48	77.31
	For <100, Add	28.14	
	For >1,000, Deduct	-15.87	
33 14 13 36-0023	LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	330.62	77.31
	For <100, Add	28.80	
	For >1,000, Deduct	-16.53	
33 14 13 36-0024	LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	382.95	89.20
	For <100, Add	33.17	
	For >1,000, Deduct	-19.15	
33 14 13 36-0025	LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	423.61	89.20
	For <100, Add	35.20	
	For >1,000, Deduct	-21.18	
33 14 13 36-0026	LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	523.39	89.20
	For <100, Add	40.19	
	For >1,000, Deduct	-26.17	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0027 LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	474.50	104.07
For <100, Add	40.08	
For >1,000, Deduct	-23.73	
33 14 13 36-0028 LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	491.13	104.07
For <100, Add	40.91	
For >1,000, Deduct	-24.56	
33 14 13 36-0029 LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	648.00	104.07
For <100, Add	48.75	
For >1,000, Deduct	-32.40	
33 14 13 36-0030 LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	560.74	104.07
For <100, Add	44.39	
For >1,000, Deduct	-28.04	
33 14 13 36-0031 LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	658.10	124.88
For <100, Add	52.53	
For >1,000, Deduct	-32.91	
33 14 13 36-0032 LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	779.75	124.88
For <100, Add	58.61	
For >1,000, Deduct	-38.99	
33 14 13 36-0033 LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	749.36	124.88
For <100, Add	57.09	
For >1,000, Deduct	-37.47	
33 14 13 36-0034 LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,136.04	139.75
For <100, Add	78.61	
For >1,000, Deduct	-56.80	
33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	702.20	139.75
For <100, Add	56.92	
For >1,000, Deduct	-35.11	
33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,302.05	157.59
For <100, Add	89.63	
For >1,000, Deduct	-65.10	
33 14 13 36-0037 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	771.29	157.59
For <100, Add	63.10	
For >1,000, Deduct	-38.56	
33 14 13 36-0038 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,367.49	178.40
For <100, Add	96.41	
For >1,000, Deduct	-68.37	
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,506.08	178.40
For <100, Add	103.34	
For >1,000, Deduct	-75.30	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,686.10	208.13
For <100, Add	117.01	
For >1,000, Deduct	-84.31	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,193.33	208.13
For <100, Add	92.37	
For >1,000, Deduct	-59.67	
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,342.02	170.03
For <100, Add	118.11	
For >1,000, Deduct	-67.10	
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,454.86	170.03
For <100, Add	173.75	
For >1,000, Deduct	-122.74	
33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)		
33 14 13 36-0045 EA 2" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	164.06	31.15
For 7" Length, Add	10.41	
33 14 13 36-0046 EA 3" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	228.56	59.92
For 7" Length, Add	10.87	
33 14 13 36-0047 EA 4" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	304.03	79.09
For 7" Length, Add	14.43	
33 14 13 36-0048 EA 6" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	491.12	119.83
For 7" Length, Add	25.15	
33 14 13 36-0049 EA 8" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	648.74	150.99
For 7" Length, Add	34.92	
33 14 13 36-0050 EA 10" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	893.21	174.62
For 7" Length, Add	54.40	
33 14 13 36-0051 EA 12" Diameter x 5" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,050.67	218.87
For 7" Length, Add	61.41	
33 14 13 36-0052 EA 14" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,133.06	218.87
For 10" Length, Add	40.04	
33 14 13 36-0053 EA 16" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,194.19	232.84
For 10" Length, Add	41.72	
33 14 13 36-0054 EA 18" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,313.49	267.76
For 10" Length, Add	46.68	
33 14 13 36-0055 EA 20" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,433.55	302.69
For 10" Length, Add	51.09	
33 14 13 36-0056 EA 24" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	1,850.11	320.15
For 10" Length, Add	72.59	
33 14 13 36-0057 EA 30" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,248.30	349.25
For 10" Length, Add	92.99	
33 14 13 36-0058 EA 36" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	2,651.08	392.91
For 10" Length, Add	111.92	
33 14 13 36-0059 EA 42" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe	3,075.30	442.39
For 10" Length, Add	132.13	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0060 EA 48" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe For 10" Length, Add	3,576.10 153.45	509.33
33 14 13 36-0061 EA 54" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe For 10" Length, Add	3,951.35 167.23	582.09
33 14 13 36-0062 EA 60" Diameter x 7" Length, Dresser Coupling For Plain End Welded Steel Pipe For 10" Length, Add	4,499.66 182.67	727.61
33 14 13 36-0063 EA 66" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe For 12" Length, Add	5,155.18 170.45	884.77
33 14 13 36-0064 EA 72" Diameter x 10" Length, Dresser Coupling For Plain End Welded Steel Pipe For 12" Length, Add	6,138.44 202.15	1,047.76

33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)**33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)**

33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe	8.92	2.20
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe	11.49	2.47
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe	15.30	2.76
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe	19.30	3.30
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe	23.93	4.41
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe	35.45	5.50
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe	44.45	6.60
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe	56.25	7.26
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	75.43	9.13
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	99.88	11.56
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	163.17	14.41
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	211.41	17.39
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	369.69	19.48

33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)

33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	9.57	2.20
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	13.79	2.47
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	17.59	2.76
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	20.72	3.30
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	26.03	4.41
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	38.27	5.50
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	52.28	6.60
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	67.98	7.26
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	89.22	9.13
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	120.81	11.56
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	206.47	14.41
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	289.28	17.39
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	513.40	19.48

33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)**33 14 13 43-0001 Pipe Coatings (33 14 13 43)****33 14 13 43-0002 Epoxy Wrap And Pipe Coating (33 14 13 43-0001)**

Note: Applied at fabrication shop.

33 14 13 43-0003 LF 12" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	4.58	
33 14 13 43-0004 LF 14" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.09	
33 14 13 43-0005 LF 16" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	6.95	
33 14 13 43-0006 LF 18" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	7.30	
33 14 13 43-0007 LF 20" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	7.86	
33 14 13 43-0008 LF 24" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	9.16	
33 14 13 43-0009 LF 30" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	12.03	
33 14 13 43-0010 LF 36" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	19.01	
33 14 13 43-0011 LF 42" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	40.97	
33 14 13 43-0012 LF 48" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	46.82	
33 14 13 43-0013 LF 54" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	52.67	
33 14 13 43-0014 LF 60" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	58.52	
33 14 13 43-0015 LF 66" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	64.38	
33 14 13 43-0016 LF 72" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	70.20	
33 14 13 43-0017 LF 78" Outside Diameter Of Pipe, Epoxy Wrap And Pipe Coating	76.08	

33 14 13 43-0018 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)

Note: Applied at fabrication shop. Thickness ranging between 1" and 2".

33 14 13 43-0019 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	9.39	
33 14 13 43-0020 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	11.56	
33 14 13 43-0021 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	14.45	
33 14 13 43-0022 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	16.10	
33 14 13 43-0023 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	18.18	
33 14 13 43-0024 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	21.28	



Utilities		33	CS
Water Utilities		33 10	
Water Utility Transmission and Distribution		33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0025	LF	16" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	24.17	
33 14 13 43-0026	LF	18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	27.27	
33 14 13 43-0027	LF	20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	30.31	
33 14 13 43-0028	LF	24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	36.36	
33 14 13 43-0029	LF	30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	45.45	
33 14 13 43-0030	LF	36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	54.54	
33 14 13 43-0031	LF	42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	63.63	
33 14 13 43-0032	LF	48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	72.72	
33 14 13 43-0033	LF	54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	81.81	
33 14 13 43-0034	LF	60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	90.90	
33 14 13 43-0035	LF	66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	99.99	
33 14 13 43-0036	LF	72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	109.09	
33 14 13 43-0037	LF	78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	118.18	
33 14 13 43-0038 Epoxy Wrap And Fitting Coating (33 14 13 43-0001)				
Note: Applied at fabrication shop.				
33 14 13 43-0039	EA	4" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	10.77 0.49	
33 14 13 43-0040	EA	6" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	13.67 0.65	
33 14 13 43-0041	EA	8" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	19.85 0.85	
33 14 13 43-0042	EA	10" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	33.27 1.24	
33 14 13 43-0043	EA	12" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	50.80 1.83	
33 14 13 43-0044	EA	14" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	79.57 2.80	
33 14 13 43-0045	EA	16" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	122.14 3.61	
33 14 13 43-0046	EA	18" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	165.54 3.72	
33 14 13 43-0047	EA	20" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	225.60 4.45	
33 14 13 43-0048	EA	24" Outside Diameter, Epoxy Wrap And Fitting Coating..... For 1/2" Thick, Add	328.08 6.23	
33 14 13 43-0049 Cement Pipe Lining (33 14 13 43)				
33 14 13 43-0050 Cement Pipe Lining (33 14 13 43-0049)				
Note: Shop applied.				
33 14 13 43-0051	LF	4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	14.58 1.25	
33 14 13 43-0052	LF	6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	18.12 1.54	
33 14 13 43-0053	LF	8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	22.12 1.93	
33 14 13 43-0054	LF	10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	28.69 2.41	
33 14 13 43-0055	LF	12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	35.30 2.90	
33 14 13 43-0056	LF	14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	45.06 3.39	
33 14 13 43-0057	LF	16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	58.29 3.85	
33 14 13 43-0058	LF	18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	69.61 3.69	
33 14 13 43-0059	LF	20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	84.00 4.11	
33 14 13 43-0060	LF	24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	101.82 4.92	
33 14 13 43-0061	LF	30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	122.60 6.16	
33 14 13 43-0062	LF	36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	147.54 7.39	
33 14 13 43-0063	LF	42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	172.16 6.34	
33 14 13 43-0064	LF	48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	196.68 7.24	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0065	LF	54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	221.30 8.15	
33 14 13 43-0066	LF	60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	245.92 9.05	
33 14 13 43-0067	LF	66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	270.45 5.31	
33 14 13 43-0068	LF	72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	295.08 5.79	
33 14 13 43-0069	LF	78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... <i>For 1/2" Thick, Add</i>	319.69 6.28	
33 14 13 43-0070		Cement Fitting Lining (33 14 13 43-0049) Note: Shop applied.		
33 14 13 43-0071	EA	4" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	15.55 1.45	
33 14 13 43-0072	EA	6" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	20.04 1.93	
33 14 13 43-0073	EA	8" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	28.13 2.50	
33 14 13 43-0074	EA	10" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	46.33 3.85	
33 14 13 43-0075	EA	12" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	70.61 5.79	
33 14 13 43-0076	EA	14" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	104.56 7.80	
33 14 13 43-0077	EA	16" Outside Diameter, 1/4" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	154.15 10.01	
33 14 13 43-0078	EA	18" Outside Diameter, 5/16" Thick Cement Fittings Lining..... <i>For 1/2" Thick, Add</i>	208.82 11.08	
33 14 13 43-0079	EA	20" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	279.84 13.67	
33 14 13 43-0080	EA	24" Outside Diameter, 5/16" Thick Cement Fitting Lining..... <i>For 1/2" Thick, Add</i>	407.31 19.70	
33 14 13 43-0081		8 Mil Polyethylene Encasement Tubing (33 14 13 43) Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0082	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.07	
33 14 13 43-0083	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.79	
33 14 13 43-0084	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.24	
33 14 13 43-0085	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.84	
33 14 13 43-0086	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.93	
33 14 13 43-0087	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.08	
33 14 13 43-0088	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	6.46	
33 14 13 43-0089	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.71	
33 14 13 43-0090	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	9.18	
33 14 13 43-0091	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	10.21	
33 14 13 53		Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)		
33 14 13 53-0001		Double Stud Stainless Steel Service Saddles (33 14 13 53) Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	274.76	
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	380.75	
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	393.88	
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	327.03	
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	409.03	
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	342.09	
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	428.55	
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	384.07	
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	451.50	
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	400.83	
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	462.85	
33 14 13 53-0013		Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53) Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.		
33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	233.65	
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	233.80	
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	248.79	
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	237.41	
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	253.95	
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	280.06	
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	297.76	
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	272.96	
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	299.29	
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	314.59	
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	288.08	
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313).....	315.21	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		330.45
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		303.68
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		330.07
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		345.12
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		494.39
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		507.52
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		328.15
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		359.77
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		373.82
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		582.76
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		365.65
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		403.33
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		648.47
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		396.72
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		436.50
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		452.35
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		721.34
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		459.63
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		491.07
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		527.69
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		880.25
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		472.76
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		535.31
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		557.54
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		944.76
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		493.88
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		558.68
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		581.46
33 14 13 53-0054	EA	16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		982.97
33 14 13 53-0055	EA	18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		544.53
33 14 13 53-0056	EA	18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		626.96
33 14 13 53-0057	EA	20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		617.21
33 14 13 53-0058	EA	20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		682.09
33 14 13 53-0059	EA	24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		644.34
33 14 13 53-0060	EA	24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)		725.35
33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)				
33 14 13 53-0062	EA	4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		318.51
33 14 13 53-0063	EA	4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		347.49
33 14 13 53-0064	EA	6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		361.70
33 14 13 53-0065	EA	6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		390.95
33 14 13 53-0066	EA	8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		401.56
33 14 13 53-0067	EA	8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		422.01
33 14 13 53-0068	EA	10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		391.28
33 14 13 53-0069	EA	10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		415.74
33 14 13 53-0070	EA	12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		490.40
33 14 13 53-0071	EA	12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		529.30
33 14 13 53-0072	EA	14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		724.63
33 14 13 53-0073	EA	14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		816.02
33 14 13 53-0074	EA	16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		840.46
33 14 13 53-0075	EA	16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)		935.65
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)				
Note: Taps are compression or NPT.				
33 14 13 53-0077	EA	4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		333.58
33 14 13 53-0078	EA	4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		366.51
33 14 13 53-0079	EA	6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		379.50
33 14 13 53-0080	EA	6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		411.28
33 14 13 53-0081	EA	8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		423.56
33 14 13 53-0082	EA	8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		445.19
33 14 13 53-0083	EA	10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		475.15
33 14 13 53-0084	EA	10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		507.89
33 14 13 53-0085	EA	12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		510.56
33 14 13 53-0086	EA	12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		552.06
33 14 13 53-0087	EA	14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		774.59
33 14 13 53-0088	EA	14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		886.67
33 14 13 53-0089	EA	16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		899.74
33 14 13 53-0090	EA	16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		978.67
33 14 13 53-0091	EA	18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		1,958.46
33 14 13 53-0092	EA	18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		1,958.46
33 14 13 53-0093	EA	20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		2,033.25
33 14 13 53-0094	EA	20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)		2,033.25

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

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TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0095	EA	24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,182.37
33 14 13 53-0096	EA	24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,182.37

33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)

33 14 13 53-0098	EA	4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,459.52
33 14 13 53-0099	EA	6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,763.79
33 14 13 53-0100	EA	8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,105.87
33 14 13 53-0101	EA	8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,225.67
33 14 13 53-0102	EA	10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,346.27
33 14 13 53-0103	EA	10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,512.90
33 14 13 53-0104	EA	10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,585.84
33 14 13 53-0105	EA	12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,543.23
33 14 13 53-0106	EA	12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,709.19
33 14 13 53-0107	EA	12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,109.88
33 14 13 53-0108	EA	12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,213.50
33 14 13 53-0109	EA	14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,978.42
33 14 13 53-0110	EA	14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,165.60
33 14 13 53-0111	EA	14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,251.19
33 14 13 53-0112	EA	14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,289.46
33 14 13 53-0113	EA	14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,556.44
33 14 13 53-0114	EA	16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,548.60
33 14 13 53-0115	EA	16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,574.87
33 14 13 53-0116	EA	16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,783.75
33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,834.98
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,891.10
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,022.66
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	8,278.47
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,470.46
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,938.86
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,077.87
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,490.44
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,833.04
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,481.74
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,661.99
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	9,733.95
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	10,082.17
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,568.29
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	13,838.13
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	11,867.02
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,032.86
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	12,081.50
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,652.09
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,868.58
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	16,921.09
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,383.47
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	17,605.83

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,202.07
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,281.90
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,398.97
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,443.77
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,503.32
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,719.93
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,578.32
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,636.34
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,827.04
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,499.01
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,778.07
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	1,862.09
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,049.79
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,652.01
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,886.75
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,324.67
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,394.58
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,794.69
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,290.19
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,613.20
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,755.69
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,827.79
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,093.44
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,801.14
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,970.17
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	2,931.20
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,059.93
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,237.87
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,070.22
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,239.05
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,529.41



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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 14 13 53-0172	EA 20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,601.36		
33 14 13 53-0173	EA 20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,997.77		
33 14 13 53-0174	EA 20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,666.50		
33 14 13 53-0175	EA 20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,951.59		
33 14 13 53-0176	EA 24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,813.99		
33 14 13 53-0177	EA 24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	3,968.90		
33 14 13 53-0178	EA 24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	4,177.26		
33 14 13 53-0179	EA 24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,125.44		
33 14 13 53-0180	EA 24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662)	5,301.39		
33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)				
33 14 13 53-0182	EA 4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,383.12		
33 14 13 53-0183	EA 6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,510.57		
33 14 13 53-0184	EA 6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,598.23		
33 14 13 53-0185	EA 8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,635.05		
33 14 13 53-0186	EA 8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,735.68		
33 14 13 53-0187	EA 8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,031.65		
33 14 13 53-0188	EA 10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,874.45		
33 14 13 53-0189	EA 10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	1,985.76		
33 14 13 53-0190	EA 10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,251.29		
33 14 13 53-0191	EA 10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,017.33		
33 14 13 53-0192	EA 12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,141.61		
33 14 13 53-0193	EA 12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,292.51		
33 14 13 53-0194	EA 12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,642.55		
33 14 13 53-0195	EA 12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,097.90		
33 14 13 53-0196	EA 12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,446.56		
33 14 13 53-0197	EA 14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,444.45		
33 14 13 53-0198	EA 14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,629.04		
33 14 13 53-0199	EA 14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,022.89		
33 14 13 53-0200	EA 14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,478.68		
33 14 13 53-0201	EA 14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,720.82		
33 14 13 53-0202	EA 16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	2,973.27		
33 14 13 53-0203	EA 16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,224.77		
33 14 13 53-0204	EA 16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,416.96		
33 14 13 53-0205	EA 16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,906.86		
33 14 13 53-0206	EA 16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,239.94		
33 14 13 53-0207	EA 18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,282.39		
33 14 13 53-0208	EA 18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,657.14		
33 14 13 53-0209	EA 18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,857.63		
33 14 13 53-0210	EA 18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,288.40		
33 14 13 53-0211	EA 18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,857.57		
33 14 13 53-0212	EA 20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,550.15		
33 14 13 53-0213	EA 20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,923.94		
33 14 13 53-0214	EA 20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,087.25		
33 14 13 53-0215	EA 20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,886.89		
33 14 13 53-0216	EA 20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,333.00		
33 14 13 53-0217	EA 24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,197.00		
33 14 13 53-0218	EA 24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,252.17		
33 14 13 53-0219	EA 24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,447.56		
33 14 13 53-0220	EA 24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,401.60		
33 14 13 53-0221	EA 24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,911.89		
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)				
33 14 13 53-0223	EA 3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	348.96		69.84
33 14 13 53-0224	EA 4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	437.38		88.06
33 14 13 53-0225	EA 6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	576.59		121.46
33 14 13 53-0226	EA 8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	743.41		142.72
33 14 13 53-0227	EA 10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,150.95		160.94
33 14 13 53-0228	EA 12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,286.41		182.20
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)				
33 14 13 53-0230	EA 3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	500.82		69.84
33 14 13 53-0231	EA 4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	593.64		88.06
33 14 13 53-0232	EA 6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	793.65		121.46
33 14 13 53-0233	EA 8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	969.32		142.72
33 14 13 53-0234	EA 10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,179.93		160.94
33 14 13 53-0235	EA 12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,373.56		182.20
33 14 13 53-0236	EA 14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,627.70		200.42
33 14 13 53-0237	EA 16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,922.87		218.64
33 14 13 53-0238	EA 18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,266.23		240.50
33 14 13 53-0239	EA 20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,672.90		264.55
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)				
33 14 13 53-0241	EA 4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	447.54		88.06
33 14 13 53-0242	EA 6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	601.66		121.46
33 14 13 53-0243	EA 8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	668.39		142.72

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0244 EA 10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	963.39	160.94
33 14 13 53-0245 EA 12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,221.02	182.20
33 14 13 53-0246 EA 14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,368.47	200.42
33 14 13 53-0247 EA 16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,604.15	218.64
33 14 13 53-0248 EA 18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,798.95	240.50
33 14 13 53-0249 EA 20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	2,155.50	264.55
33 14 13 53-0250 EA 24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	2,589.25	291.03
33 14 13 53-0251 EA 30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	5,317.44	320.06
33 14 13 53-0252 EA 36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	7,155.30	352.13
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)		
33 14 13 53-0254 EA 2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	162.26	48.58
33 14 13 53-0255 EA 2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	199.56	57.69
33 14 13 53-0256 EA 3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	246.63	69.84
33 14 13 53-0257 EA 4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	309.82	88.06
33 14 13 53-0258 EA 6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	414.40	121.46
33 14 13 53-0259 EA 8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	502.19	142.72
33 14 13 53-0260 EA 10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	622.81	160.94
33 14 13 53-0261 EA 12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	726.75	182.20
33 14 13 53-0262 EA 14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	1,007.02	200.42
33 14 13 53-0263 EA 16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	1,247.94	218.64
33 14 19 Valves and Hydrants for Water Utility Service (33 14)		
Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill.		
33 14 19 00-0001 Accessories For Valves (33 14 19)		
33 14 19 00-0002 EA 1" Valve Extension Stem.....	115.41	
For Each Additional LF, Add 9.05		
33 14 19 00-0003 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly.....	1,715.67	119.83
Note: Excludes valve.		
33 14 19 00-0004 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly.....	1,945.75	131.82
Note: Excludes valve.		
33 14 19 00-0005 EA Adjust Water Valve Box To Grade.....	119.83	
33 14 19 00-0006 Water Utility Distribution Valves (33 14 19)		
33 14 19 00-0007 Angle Valves (33 14 19 00-0006)		
Note: For connecting meters to water service.		
33 14 19 00-0008 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0007)		
Note: Nibco T-335Y		
33 14 19 00-0009 EA 1/2" Threaded, Class 150, Bronze Angle Valve.....	108.70	20.82
33 14 19 00-0010 EA 3/4" Threaded, Class 150, Bronze Angle Valve.....	146.62	27.98
33 14 19 00-0011 EA 1" Threaded, Class 150, Bronze Angle Valve.....	196.66	34.48
33 14 19 00-0012 EA 1-1/4" Threaded, Class 150, Bronze Angle Valve.....	253.04	43.33
33 14 19 00-0013 EA 1-1/2" Threaded, Class 150, Bronze Angle Valve.....	315.10	50.10
33 14 19 00-0014 EA 2" Threaded, Class 150, Bronze Angle Valve.....	466.78	58.55
33 14 19 00-0015 EA 2-1/2" Threaded, Class 150, Bronze Angle Valve.....	744.47	79.93
33 14 19 00-0016 EA 3" Threaded, Class 150, Bronze Angle Valve.....	1,123.89	92.27
33 14 19 00-0017 Butterfly Valves (33 14 19 00-0006)		
33 14 19 00-0018 Lug Type Flanged, Cast Iron Disc, Butterfly Valves (33 14 19 00-0017)		
Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin		
33 14 19 00-0019 EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	2,153.77	221.20
33 14 19 00-0020 EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	2,408.02	221.20
33 14 19 00-0021 EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	2,430.09	342.36
33 14 19 00-0022 EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	2,682.17	342.36
33 14 19 00-0023 EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	2,788.61	404.06
33 14 19 00-0024 EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	3,040.69	404.06
33 14 19 00-0025 EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified).....	3,153.44	516.30
33 14 19 00-0026 EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified).....	3,404.07	516.30



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0027	EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	3,954.01	628.53	
33 14 19 00-0028	EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8)	3,954.01	628.53	
33 14 19 00-0029	EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD8 Modified)	4,527.76	761.85	
33 14 19 00-0030	EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW8 Modified)	4,779.83	761.85	
33 14 19 00-0031	EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD12 Modified)	6,070.78	1,072.58	
33 14 19 00-0032	EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW12 Modified)	6,729.95	1,072.58	
33 14 19 00-0033	EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD16 Modified)	7,069.74	1,179.84	
33 14 19 00-0034	EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW20 Modified)	7,878.12	1,179.84	
33 14 19 00-0035	EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD24 Modified)	8,858.99	1,308.54	
33 14 19 00-0036	EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW24 Modified)	9,715.18	1,308.54	
33 14 19 00-0037	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-HD24 Modified)	10,151.90	1,474.79	
33 14 19 00-0038	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,Ci,NBRN-NBR,150B,Ci-S2*GS-6B-CW24 Modified)	11,006.64	1,474.79	
33 14 19 00-0039		Lug Type Flanged, Ductile Iron Disc, Butterfly Valves (33 14 19 00-0017) Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin			
33 14 19 00-0040	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20 Modified)	16,947.95	1,809.98	
33 14 19 00-0041	EA	24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10 Modified)	27,237.47	1,809.98	
33 14 19 00-0042	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20 Modified)	16,897.10	1,809.98	
33 14 19 00-0043	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)	27,750.04	2,860.76	
33 14 19 00-0044	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified)	54,802.08	3,814.36	
33 14 19 00-0045	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32 Modified)	64,845.18	5,721.52	
33 14 19 00-0046	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24 Modified)	82,258.80	7,151.90	
33 14 19 00-0047	EA	54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24 Modified)	114,878.82	8,582.28	
33 14 19 00-0048	EA	60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified)	143,934.21	10,298.74	
33 14 19 00-0049	EA	72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36 Modified)	206,440.71	12,358.49	
33 14 19 00-0050	LF	3/16" Link, 316 Stainless Steel Chain For Use With DeZurik Chainwheel	19.00		
33 14 19 00-0051	EA	316 Stainless Steel Closing Link For Use With DeZurik Chainwheel	10.00		
Note: One required per valve.					
33 14 19 00-0052		Check Valves (33 14 19 00-0006)			
33 14 19 00-0053		Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0052) Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.			
33 14 19 00-0054	EA	2-1/2" Flanged, Swing Type Gravity Operated Check Valve	1,820.58	173.76	
33 14 19 00-0055	EA	3" Flanged, Swing Type Gravity Operated Check Valve	1,857.66	203.71	
33 14 19 00-0056	EA	4" Flanged, Swing Type Gravity Operated Check Valve	2,490.32	257.64	
33 14 19 00-0057	EA	4" x 6" Flanged, Swing Type Gravity Operated Check Valve	3,579.96	387.66	
33 14 19 00-0058	EA	4" x 8" Flanged, Swing Type Gravity Operated Check Valve	3,699.63	432.94	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0059 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....	3,514.69	431.39
33 14 19 00-0060 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	4,639.94	490.37
33 14 19 00-0061 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	4,820.00	551.23
33 14 19 00-0062 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....	5,037.05	551.23
33 14 19 00-0063 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....	8,648.10	671.06
33 14 19 00-0064 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....	13,230.87	503.29
33 14 19 00-0065 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....	18,630.72	1,072.58
33 14 19 00-0066 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....	24,908.31	1,179.84
33 14 19 00-0067 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....	36,343.33	1,308.54
33 14 19 00-0068 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	42,338.35	1,474.79
33 14 19 00-0069 Combination Air Release Valves (33 14 19 00-0066)		
33 14 19 00-0070 EA 1" Combination Air Release Valve	632.88	25.17
33 14 19 00-0071 EA 2" Combination Air Release Valve	1,021.85	43.14
33 14 19 00-0072 Corporation Stop And Curb Valve (33 14 19 00-0066)		
Note: AWWA C800		
33 14 19 00-0073 Ball Corporation Valves (33 14 19 00-0072)		
Note: Mueller B-25000.		
33 14 19 00-0074 EA 3/4" Ball Corporation Valve (Mueller B-25000)	87.08	25.17
33 14 19 00-0075 EA 1" Ball Corporation Valve (Mueller B-25000)	109.16	31.15
33 14 19 00-0076 EA 1-1/2" Ball Corporation Valve (Mueller B-25000)	191.06	45.53
33 14 19 00-0077 EA 2" Ball Corporation Valve (Mueller B-25000)	281.61	53.93
33 14 19 00-0078 Gate Valve, AWWA C500 And C509 (33 14 19 00-0066)		
33 14 19 00-0079 Gate Valve, Flanged (33 14 19 00-0078)		
Note: Mueller A-2380-6.		
33 14 19 00-0080 EA 2" Gate Valve, Flanged.....	1,103.95	159.73
33 14 19 00-0081 EA 2-1/2" Gate Valve, Flanged.....	1,297.58	173.76
33 14 19 00-0082 EA 3" Gate Valve, Flanged.....	1,536.27	203.71
33 14 19 00-0083 EA 4" Gate Valve, Flanged.....	1,942.31	255.24
33 14 19 00-0084 EA 6" Gate Valve, Flanged.....	2,455.24	431.39
33 14 19 00-0085 EA 8" Gate Valve, Flanged.....	3,675.80	551.23
33 14 19 00-0086 EA 10" Gate Valve, Flanged.....	5,591.94	671.06
33 14 19 00-0087 EA 12" Gate Valve, Flanged.....	6,745.29	503.29
33 14 19 00-0088 EA 14" Gate Valve, Flanged.....	15,046.24	1,072.58
33 14 19 00-0089 EA 16" Gate Valve, Flanged.....	19,789.41	1,179.84
33 14 19 00-0090 EA 18" Gate Valve, Flanged.....	31,613.53	1,308.54
33 14 19 00-0091 EA 20" Gate Valve, Flanged.....	37,847.50	1,474.79
33 14 19 00-0092 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0078)		
Note: Mueller A-2360-6.		
33 14 19 00-0093 EA 2" Resilient Wedge Gate Valve, Flanged.....	1,052.80	159.73
33 14 19 00-0094 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	1,236.46	173.76
33 14 19 00-0095 EA 3" Resilient Wedge Gate Valve, Flanged.....	1,463.75	203.71
33 14 19 00-0096 EA 4" Resilient Wedge Gate Valve, Flanged.....	1,861.24	255.24
33 14 19 00-0097 EA 6" Resilient Wedge Gate Valve, Flanged.....	2,346.87	431.39
33 14 19 00-0098 EA 8" Resilient Wedge Gate Valve, Flanged.....	3,506.52	551.23
33 14 19 00-0099 EA 10" Resilient Wedge Gate Valve, Flanged.....	5,322.92	671.06
33 14 19 00-0100 EA 12" Resilient Wedge Gate Valve, Flanged.....	6,420.48	503.29
33 14 19 00-0101 Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2380-20.		
33 14 19 00-0102 EA 2" Gate Valve, Mechanical Joint	1,286.87	127.62
33 14 19 00-0103 EA 2-1/2" Gate Valve, Mechanical Joint	1,378.84	159.97
33 14 19 00-0104 EA 3" Gate Valve, Mechanical Joint	1,737.76	193.53
33 14 19 00-0105 EA 4" Gate Valve, Mechanical Joint	2,055.49	255.24
33 14 19 00-0106 EA 6" Gate Valve, Mechanical Joint	2,599.09	299.58
33 14 19 00-0107 EA 8" Gate Valve, Mechanical Joint	3,830.33	359.49
33 14 19 00-0108 EA 10" Gate Valve, Mechanical Joint	5,674.02	419.41
33 14 19 00-0109 EA 12" Gate Valve, Mechanical Joint	7,118.08	503.29
33 14 19 00-0110 EA 14" Gate Valve, Mechanical Joint	16,036.17	656.95
33 14 19 00-0111 EA 16" Gate Valve, Mechanical Joint	20,831.00	737.40
33 14 19 00-0112 EA 18" Gate Valve, Mechanical Joint	33,476.37	817.84
33 14 19 00-0113 EA 20" Gate Valve, Mechanical Joint	39,860.52	921.75
33 14 19 00-0114 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0078)		
Note: Mueller A-2360-20.		
33 14 19 00-0115 EA 2" Resilient Wedge Gate Valve, Mechanical Joint	1,228.46	127.62
33 14 19 00-0116 EA 3" Resilient Wedge Gate Valve, Mechanical Joint	1,661.30	193.53
33 14 19 00-0117 EA 4" Resilient Wedge Gate Valve, Mechanical Joint	1,968.03	255.24
33 14 19 00-0118 EA 6" Resilient Wedge Gate Valve, Mechanical Joint	2,485.90	299.58
33 14 19 00-0119 EA 8" Resilient Wedge Gate Valve, Mechanical Joint	3,654.24	359.49
33 14 19 00-0120 EA 10" Resilient Wedge Gate Valve, Mechanical Joint	5,400.35	419.41



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0121	EA	12" Resilient Wedge Gate Valve, Mechanical Joint	6,772.09	503.29
33 14 19 00-0122 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0078)				
Note: Mueller A-2361.				
33 14 19 00-0123	EA	14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	10,656.09	1,072.58
33 14 19 00-0124	EA	16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	11,581.36	1,179.84
33 14 19 00-0125	EA	18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	18,175.65	1,308.54
33 14 19 00-0126	EA	20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	21,712.94	1,474.79
33 14 19 00-0127	EA	24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint	30,903.11	1,809.98
33 14 19 00-0128 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0078)				
Note: NIBCO T-113.				
33 14 19 00-0129	EA	1/4" Gate Valve, Bronze, Threaded	64.80	20.95
33 14 19 00-0130	EA	3/8" Gate Valve, Bronze, Threaded	66.79	20.95
33 14 19 00-0131	EA	1/2" Gate Valve, Bronze, Threaded	66.33	20.95
33 14 19 00-0132	EA	3/4" Gate Valve, Bronze, Threaded	85.61	28.30
33 14 19 00-0133	EA	1" Gate Valve, Bronze, Threaded	105.46	34.22
33 14 19 00-0134	EA	1-1/4" Gate Valve, Bronze, Threaded	142.88	43.33
33 14 19 00-0135	EA	1-1/2" Gate Valve, Bronze, Threaded	165.75	50.10
33 14 19 00-0136	EA	2" Gate Valve, Bronze, Threaded	200.91	58.55
33 14 19 00-0137	EA	2-1/2" Gate Valve, Bronze, Threaded	382.21	79.93
33 14 19 00-0138	EA	3" Gate Valve, Bronze, Threaded	457.63	91.68
33 14 19 00-0139 Globe Valve, AWWA (33 14 19 00-0006)				
33 14 19 00-0140 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0139)				
Note: NIBCO T-235.				
33 14 19 00-0141	EA	1/8" Globe Valve, Threaded	90.82	20.95
33 14 19 00-0142	EA	1/4" Globe Valve, Threaded	86.82	20.95
33 14 19 00-0143	EA	3/8" Globe Valve, Threaded	88.81	20.95
33 14 19 00-0144	EA	1/2" Globe Valve, Threaded	90.82	20.95
33 14 19 00-0145	EA	3/4" Globe Valve, Threaded	123.33	28.30
33 14 19 00-0146	EA	1" Globe Valve, Threaded	172.24	34.22
33 14 19 00-0147	EA	1-1/4" Globe Valve, Threaded	250.83	43.33
33 14 19 00-0148	EA	1-1/2" Globe Valve, Threaded	299.19	50.10
33 14 19 00-0149	EA	2" Globe Valve, Threaded	415.80	58.55
33 14 19 00-0150	EA	2-1/2" Globe Valve, Threaded	759.26	79.93
33 14 19 00-0151	EA	3" Globe Valve, Threaded	1,036.98	92.15
33 14 19 00-0152 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0006)				
33 14 19 00-0153 Tapping Valve, AWWA C500 And C509 (33 14 19 00-0152)				
Note: Flanged inlet X mechanical joint, Mueller H-667.				
33 14 19 00-0154	EA	2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,591.45	159.73
33 14 19 00-0155	EA	3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,051.39	203.71
33 14 19 00-0156	EA	4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,439.89	255.24
33 14 19 00-0157	EA	6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	3,215.60	431.39
33 14 19 00-0158	EA	8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	4,650.97	551.23
33 14 19 00-0159	EA	10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	6,777.00	671.06
33 14 19 00-0160	EA	12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	10,082.19	503.29
33 14 19 00-0161	EA	14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	18,478.56	1,072.58
33 14 19 00-0162	EA	16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	23,423.95	1,179.84
33 14 19 00-0163	EA	18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	38,058.19	1,308.54
33 14 19 00-0164 Fire Hydrants (33 14 19)				
Note: Breakaway type.				
33 14 19 00-0165 Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0164)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0166	EA	1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,751.36	314.27
33 14 19 00-0167	EA	2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,821.03	314.27
33 14 19 00-0168	EA	2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,890.89	314.27
33 14 19 00-0169	EA	3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,982.85	336.71
33 14 19 00-0170	EA	3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,052.59	336.71
33 14 19 00-0171	EA	4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,150.47	364.78
33 14 19 00-0172	EA	4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,220.11	364.78
33 14 19 00-0173	EA	5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,317.99	392.83
33 14 19 00-0174	EA	5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,387.73	392.83
33 14 19 00-0175	EA	6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,485.43	420.90
33 14 19 00-0176	EA	6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,583.20	448.95
33 14 19 00-0177	EA	7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,708.93	505.07
33 14 19 00-0178	EA	1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,814.94	314.27
33 14 19 00-0179	EA	2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,905.36	314.27
33 14 19 00-0180	EA	2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,995.56	314.27
33 14 19 00-0181	EA	3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,108.20	336.71
33 14 19 00-0182	EA	3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,198.40	336.71
33 14 19 00-0183	EA	4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,317.00	364.78

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0184	EA	4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,407.09	364.78
33 14 19 00-0185	EA	5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,525.43	392.83
33 14 19 00-0186	EA	5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,615.60	392.83
33 14 19 00-0187	EA	6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,733.71	420.90
33 14 19 00-0188	EA	6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,852.19	448.95
33 14 19 00-0189	EA	7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,998.35	505.07
33 14 19 00-0190 Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0164)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0191	EA	1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,368.90	314.27
33 14 19 00-0192	EA	2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,438.33	314.27
33 14 19 00-0193	EA	2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,508.16	314.27
33 14 19 00-0194	EA	3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,600.41	336.71
33 14 19 00-0195	EA	3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,669.93	336.71
33 14 19 00-0196	EA	4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,767.66	364.78
33 14 19 00-0197	EA	4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,837.40	364.78
33 14 19 00-0198	EA	5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,935.35	392.83
33 14 19 00-0199	EA	5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,004.94	392.83
33 14 19 00-0200	EA	6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,103.02	420.90
33 14 19 00-0201	EA	6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,200.34	448.95
33 14 19 00-0202	EA	7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,326.23	505.07
33 14 19 00-0203	EA	1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,467.12	314.27
33 14 19 00-0204	EA	2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,557.34	314.27
33 14 19 00-0205	EA	2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,647.43	314.27
33 14 19 00-0206	EA	3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,760.29	336.71
33 14 19 00-0207	EA	3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,850.26	336.71
33 14 19 00-0208	EA	4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,968.71	364.78
33 14 19 00-0209	EA	4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,058.73	364.78
33 14 19 00-0210	EA	5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,177.36	392.83
33 14 19 00-0211	EA	5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,267.33	392.83
33 14 19 00-0212	EA	6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,385.76	420.90
33 14 19 00-0213	EA	6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,503.78	448.95
33 14 19 00-0214	EA	7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,650.44	505.07
33 14 19 00-0215 Three Way, Modern Model Fire Hydrant (33 14 19 00-0164)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0216	EA	1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,913.97	314.27
33 14 19 00-0217	EA	2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,004.05	314.27
33 14 19 00-0218	EA	2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,094.41	314.27
33 14 19 00-0219	EA	3' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,207.09	336.71
33 14 19 00-0220	EA	3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,297.24	336.71
33 14 19 00-0221	EA	4' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,415.51	364.78
33 14 19 00-0222	EA	4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,505.78	364.78
33 14 19 00-0223	EA	5' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,624.05	392.83
33 14 19 00-0224	EA	5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,714.23	392.83
33 14 19 00-0225	EA	6' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,832.49	392.83
33 14 19 00-0226	EA	6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,951.01	448.95
33 14 19 00-0227	EA	7' Burial Section, Three Way, Modern Type Fire Hydrant.....	5,096.23	448.95
33 14 19 00-0228 Two Way, Modern Model Fire Hydrant (33 14 19 00-0164)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0229	EA	1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,784.38	314.27
33 14 19 00-0230	EA	2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,852.93	314.27
33 14 19 00-0231	EA	2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,922.25	314.27
33 14 19 00-0232	EA	3' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,012.44	336.71
33 14 19 00-0233	EA	3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,080.98	336.71
33 14 19 00-0234	EA	4' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,177.58	364.78
33 14 19 00-0235	EA	4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,246.09	364.78
33 14 19 00-0236	EA	5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,342.76	392.83
33 14 19 00-0237	EA	5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,411.10	392.83
33 14 19 00-0238	EA	6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,507.72	420.90
33 14 19 00-0239	EA	6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,604.40	448.95
33 14 19 00-0240	EA	7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,728.20	505.07
33 14 19 00-0241 Safetop Model With Breakable Section (33 14 19 00-0164)				
Note: Prices listed are for mechanical joint. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0242	EA	4" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,804.10	224.48
33 14 19 00-0243	EA	6" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	2,999.74	252.54
33 14 19 00-0244	EA	8" Safetop Model Fire Hydrant Breakable With 5' Burial Section.....	3,270.99	280.59
33 14 19 00-0245 Fire Hydrant Extension Kits (33 14 19 00-0164)				
33 14 19 00-0246	EA	6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	580.73	28.06
33 14 19 00-0247	EA	12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	690.03	35.07
33 14 19 00-0248	EA	18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	752.68	42.09
33 14 19 00-0249	EA	24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	855.59	51.91
33 14 19 00-0250	EA	30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,291.65	54.02



		Utilities	33	CS
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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 14 19 00-0251	EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,379.54		56.12
33 14 19 00-0252	EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,400.55		58.92
33 14 19 00-0253	EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,479.29		63.13
33 14 19 00-0254	EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,630.95		75.76
33 14 19 00-0255	EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,721.28		91.19
33 14 19 00-0256	EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	646.02		31.42
33 14 19 00-0257	EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	765.02		38.16
33 14 19 00-0258	EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	877.88		46.02
33 14 19 00-0259	EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	981.47		57.24
33 14 19 00-0260	EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,343.62		59.49
33 14 19 00-0261	EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,432.63		61.73
33 14 19 00-0262	EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,493.93		65.10
33 14 19 00-0263	EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,747.31		69.59
33 14 19 00-0264	EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,915.04		83.05
33 14 19 00-0265	EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	2,012.41		99.89
33 14 19 00-0266 Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0164)				
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.				
33 14 19 00-0267	EA Up To 5' Bury Section, Removal And Reinstallation Of Fire Hydrant.....	897.90		
33 14 19 00-0268	EA >5' Bury Section, Removal And Reinstallation Of Fire Hydrant.....	1,309.45		
33 14 19 00-0269	EA Reset Fire Hydrant Upper Barrel	1,429.24		
Note: Includes Safety Repair Kit				
33 14 19 00-0270 Yard Hydrants (33 14 19)				
Note: With 3/4" hose thread outlet.				
33 14 19 00-0271	EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	392.72		39.04
33 14 19 00-0272	EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	421.56		39.04
33 14 19 00-0273	EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	450.39		39.04
33 14 19 00-0274	EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	364.33		49.44
33 14 19 00-0275	EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	381.53		49.44
33 14 19 00-0276	EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	398.72		49.44
33 14 19 00-0277 Sanitary Yard Hydrants (33 14 19)				
Note: With 3/4" hose thread outlet.				
33 14 19 00-0278	EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,758.67		81.32
33 14 19 00-0279	EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,848.78		81.32
33 14 19 00-0280	EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,938.89		81.32
33 14 19 00-0281 Flushing Hydrants (33 14 19)				
33 14 19 00-0282	EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	902.82		50.42
33 14 23 Enclosures for Water Utility Piping and Valves (33 14)				
Note: Excludes excavation and backfill. See CSI section 22 11 19 00-0449 for Enclosures.				
33 14 23 00-0001 Roadway Utility Box (33 14 23)				
33 14 23 00-0002 Utility Box (33 14 23 00-0001)				
Note: Christy Concrete Products.				
33 14 23 00-0003 B3 Utility Box, 9-3/8" x 15-1/2" (33 14 23 00-0002)				
33 14 23 00-0004	EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....	131.54		59.72
33 14 23 00-0005	EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	132.31		6.64
33 14 23 00-0006	EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	55.14		6.64
33 14 23 00-0007	EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	289.20		6.64
33 14 23 00-0008	EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	78.25		13.27
33 14 23 00-0009	EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	112.35		13.27
33 14 23 00-0010 B9 Utility Box, 10-1/4" x 17-1/4" (33 14 23 00-0002)				
33 14 23 00-0011	EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....	159.63		79.62
33 14 23 00-0012	EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	154.99		7.96
33 14 23 00-0013	EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	61.21		7.96
33 14 23 00-0014	EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	303.39		6.64
33 14 23 00-0015	EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	87.62		13.27
33 14 23 00-0016	EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	117.39		19.91
33 14 23 00-0017	EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	139.33		36.49
33 14 23 00-0018 B12 Utility Box, 12" x 20" (33 14 23 00-0002)				
33 14 23 00-0019	EA 12" x 20" Precast Concrete Utility Box.....	175.47		86.25
33 14 23 00-0020	EA Cast Iron Lid For 12" x 20" Utility Box.....	279.01		9.95
33 14 23 00-0021	EA Reinforced Concrete Lid For 12" x 20" Utility Box.....	82.15		13.27
33 14 23 00-0022	EA Steel Checkered Plate Cover For 12" x 20" Utility Box	408.14		13.27
33 14 23 00-0023	EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box	181.66		46.44

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0024	B16 Utility Box, 12" x 22-1/4" (33 14 23 00-0002)			
33 14 23 00-0025	EA 12" x 22-1/4" Precast Concrete Utility Box.....	202.00	100.85	
33 14 23 00-0026	EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....	315.30	13.27	
33 14 23 00-0027	EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	101.49	13.27	
33 14 23 00-0028	EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box.....	410.44	13.27	
33 14 23 00-0029	EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	142.57	22.56	
33 14 23 00-0030	EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box.....	184.87	46.44	
33 14 23 00-0031	B30 Utility Box, 13-1/4" x 24" (33 14 23 00-0002)			
33 14 23 00-0032	EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX).....	243.32	119.42	
33 14 23 00-0033	EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D).....	136.74	21.23	
33 14 23 00-0034	EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	507.42	17.25	
33 14 23 00-0035	EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	142.57	22.56	
33 14 23 00-0036	EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA).....	218.44	37.15	
33 14 23 00-0037	EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6).....	170.53	25.21	
33 14 23 00-0038	EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	239.53	59.72	
33 14 23 00-0039	B36 Utility Box, 17-1/4" x 30" (33 14 23 00-0002)			
33 14 23 00-0040	EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX).....	317.95	151.27	
33 14 23 00-0041	EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D).....	222.83	36.49	
33 14 23 00-0042	EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	636.13	25.21	
33 14 23 00-0043	EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	201.02	47.77	
33 14 23 00-0044	EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA).....	339.75	53.08	
33 14 23 00-0045	EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	319.78	76.96	
33 14 23 00-0046	B40 Utility Box, 24-1/2" x 36" (33 14 23 00-0002)			
33 14 23 00-0047	EA 24-1/2" x 36" Precast Concrete Utility Box.....	657.26	233.54	
33 14 23 00-0048	EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	609.62	87.58	
33 14 23 00-0049	EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	903.59	38.48	
33 14 23 00-0050	EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box.....	498.59	82.27	
33 14 23 00-0051	EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box.....	528.97	86.25	
33 14 23 00-0052	B48 Utility Box, 30-1/4" x 48-1/4" (33 14 23 00-0002)			
33 14 23 00-0053	EA 30-1/4" x 48-1/4" Precast Concrete Utility Box.....	831.66	265.39	
33 14 23 00-0054	EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	840.63	144.64	
33 14 23 00-0055	EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	1,059.38	144.64	
33 14 23 00-0056	EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	1,430.60	66.34	
33 14 23 00-0057	EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	725.43	179.14	
33 14 23 00-0058	EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	653.99	120.76	
33 14 23 00-0059	Roadway Or Curb Valve Boxes (33 14 23)			
33 14 23 00-0060	Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 23 00-0059)			
33 14 23 00-0061	EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	234.94	15.81	
	Note: Includes cover, top section and bottom section.			
33 14 23 00-0062	EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	272.26	15.81	
	Note: Includes cover, top section and bottom section.			
33 14 23 00-0063	EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	273.98	15.81	
	Note: Includes cover, top section and bottom section.			
33 14 23 00-0064	EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	71.46	7.91	
33 14 23 00-0065	EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	81.34	7.91	
33 14 23 00-0066	EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	96.21	7.91	
33 14 23 00-0067	EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box.....	353.19	19.77	
	Note: Includes cover, top section and bottom section.			
33 14 23 00-0068	EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	609.94	27.68	
	Note: Includes cover, top section, bottom section and #6 round base.			
33 14 23 00-0069	EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	679.54	27.68	
	Note: Includes cover, top section, bottom section and #6 round base.			
33 14 23 00-0070	EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	366.99	19.77	
	Note: Includes cover, top section and bottom section.			
33 14 23 00-0071	EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	383.62	19.77	
	Note: Includes cover, top section and bottom section.			
33 14 23 00-0072	EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	370.92	19.77	
	Note: Includes cover, top section and bottom section.			
33 14 23 00-0073	EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	134.62	7.91	
33 14 23 00-0074	EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	228.73	32.53	
33 14 23 00-0075	EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	236.29	33.83	
33 14 23 00-0076	EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	262.94	35.13	
33 14 23 00-0077	EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box.....	358.63	37.08	
33 14 23 00-0078	EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	431.64	39.04	
33 14 23 00-0079	EA 18" Cast Iron Service Box Extension Section.....	100.64		
33 14 23 00-0080	Plastic Roadway Grade Water Meter Box And Cover (33 14 23 00-0059)			
33 14 23 00-0081	EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover.....	323.89	45.54	



Utilities			33
Water Utilities			33 10
Water Utility Transmission and Distribution			33 14

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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 23 00-0082	EA	9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover	243.36		32.53
33 14 23 00-0083	EA	Cast Iron Lid For Plastic Meter Box	72.16		
33 14 23 00-0084 Traffic Valve Box And Lid (33 14 23 00-0059)					
33 14 23 00-0085	EA	10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5)	232.20		
33 14 23 00-0086	EA	14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12)	746.59		
33 14 23 00-0087 Roadway Valve Box Cover Adjustment (33 14 23)					
Note: Excludes asphalt See CSI section 02 41 13 13-0036 for breakup and removal of pavement, 02 41 19 13-0057 for sawcutting pavement if required, 32 12 16 13-0023 for Hand Placed Hot Mixed Asphalt 3,954 Lb./CY.					
33 14 23 00-0088	EA	Up To 3" Rise, Up To 6" Diameter, Adjustment To Roadway Valve Cover.....	320.22		
33 14 23 00-0089 Roadway Utility Box Cover Adjustment (33 14 23)					
Note: Excludes asphalt See CSI section 02 41 13 13-0036 for breakup and removal of pavement, 02 41 19 13-0057 for sawcutting pavement if required, 32 12 16 13-0023 for Hand Placed Hot Mixed Asphalt 3,954 Lb./CY.					
33 14 23 00-0090	EA	Up To 6" Rise, Up To 2 SF, Adjustment To Roadway Utility Cover	641.15		
33 14 23 00-0091	EA	Up To 6" Rise, >2 To 4 SF, Adjustment To Roadway Utility Cover.....	818.58		
33 14 23 00-0092	EA	Up To 6" Rise, >4 To 6 SF, Adjustment To Roadway Utility Cover.....	1,169.52		
33 14 23 00-0093	EA	Up To 6" Rise, >6 To 10 SF, Adjustment To Roadway Utility Cover.....	1,425.94		
33 19 Water Utility Metering Equipment (33 19)					
33 19 13 Positive Displacement Water Meters (33 19)					
33 19 13 23 Nutating Disc Water Meters (33 19 13)					
33 19 13 23-0001 Bronze Disk Type Water Service Meters (33 19 13 23)					
33 19 13 23-0002	EA	5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter	336.61		67.66
33 19 13 23-0003	EA	3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter	423.00		80.67
33 19 13 23-0004	EA	1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter	567.76		92.38
33 19 13 23-0005	EA	1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,103.87		137.92
33 19 13 23-0006	EA	2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter	1,495.56		179.56
33 19 13 23-0007 Magnetic Driven, Positive Displacement Type Water Service Meters (33 19 13 23)					
33 19 13 23-0008	EA	5/8" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	602.73		67.66
For Owner Furnished Material, Deduct			-534.24		
33 19 13 23-0009	EA	3/4" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	687.35		80.67
For Owner Furnished Material, Deduct			-606.03		
33 19 13 23-0010	EA	1" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,022.82		92.38
For Owner Furnished Material, Deduct			-929.88		
33 19 13 23-0011	EA	1-1/2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	1,730.56		137.92
For Owner Furnished Material, Deduct			-1,592.14		
33 19 13 23-0012	EA	2" Diameter Transmitting Water Supply Meter, Screwed (Neptune T10 E-Coder/R900i)	2,142.68		179.56
For Owner Furnished Material, Deduct			-1,961.97		
33 19 13 23-0013	EA	Electronic Transmitter.....	487.80		32.53
Note: For use with transmitting meter valve.					
For Owner Furnished Material, Deduct			-455.27		
33 19 16 Velocity-Type Water Meters (33 19)					
33 19 16 23 Turbine Water Meters (33 19 16)					
33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)					
33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)					
33 19 16 23-0003	EA	1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged	1,323.75		125.82
33 19 16 23-0004	EA	2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	1,861.90		159.73
33 19 16 23-0005	EA	3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	3,450.66		203.71
33 19 16 23-0006	EA	4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	5,143.40		318.75
33 19 16 23-0007	EA	6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	9,776.79		431.39
33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)					
33 19 16 23-0009	EA	1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged	2,101.14		125.82
33 19 16 23-0010	EA	2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged	2,971.72		159.73
33 19 16 23-0011	EA	3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged	3,895.61		203.71
33 19 16 23-0012	EA	4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged	5,731.56		318.75
33 19 16 23-0013	EA	6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged	11,919.72		431.39
33 19 16 23-0014	EA	8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged	15,950.70		551.23
33 19 16 23-0015	EA	10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged	22,309.13		671.06
33 19 16 23-0016	EA	12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged	26,820.45		1,058.11
33 19 19 Compound Water Meters (33 19)					
33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)					

33 Utilities**33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 00-0002	EA	2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter	5,636.33	159.73
33 19 00-0003	EA	3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter	6,815.94	203.71
33 19 00-0004	EA	4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter	11,275.57	318.75
33 19 00-0005	EA	6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter	15,775.98	431.39
33 19 00-0006	EA	8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter	32,567.39	551.23
33 19 00-0007	EA	10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter	55,890.28	671.06
33 19 23 Magnetic Water Meters (33 19)				
33 19 23 00-0001		Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)		
33 19 23 00-0002	EA	2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	9,008.92	159.73
33 19 23 00-0003	EA	3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	12,711.22	203.71
33 19 23 00-0004	EA	4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG)	14,601.58	318.75
33 19 26 Ultrasonic Water Meters (33 19)				
33 19 26 00-0001		Ultrasonic Water Service Meters (Mastermeter Octive) (33 19 26)		
33 19 26 00-0002	EA	3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	4,570.79	203.71
33 19 26 00-0003	EA	4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	5,277.16	318.75
33 19 26 00-0004	EA	6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	7,761.81	431.39
33 19 26 00-0005	EA	8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive)	11,171.75	551.23
33 30 Sanitary Sewerage Utilities (33)				
33 31 Sanitary Sewerage Piping (33 30)				
33 31 11		Public Sanitary Sewerage Gravity Piping (33 31)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.				
33 31 11 00-0001		Cast Iron Service Saddles With U Bolt (33 31 11)		
33 31 11 00-0002	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	130.00	
33 31 11 00-0003	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	130.71	
33 31 11 00-0004	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	143.84	
33 31 11 00-0005	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	139.24	
33 31 11 00-0006	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	157.19	
33 31 11 00-0007	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	176.89	
33 31 11 00-0008	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	209.57	
33 31 11 00-0009	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	177.48	
33 31 11 00-0010	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	194.01	
33 31 11 00-0011	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	223.76	
33 31 11 00-0012	EA	2" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	185.10	
33 31 11 00-0013	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	143.21	
33 31 11 00-0014	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	156.34	
33 31 11 00-0015	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	186.17	
33 31 11 00-0016	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	220.97	
33 31 11 00-0017	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	237.96	
33 31 11 00-0018		Plastic Sewer And Drain Piping (33 31 11)		
Note: Includes detectable tracer wire.				
33 31 11 00-0019		Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
33 31 11 00-0020	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	10.78	4.34
33 31 11 00-0021	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.08	5.12
33 31 11 00-0022	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	18.25	6.20
33 31 11 00-0023	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	22.89	7.24
33 31 11 00-0024	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	31.51	8.42
33 31 11 00-0025	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	42.46	9.78
33 31 11 00-0026	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	58.45	10.13
33 31 11 00-0027	LF	12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	77.13	10.50
33 31 11 00-0028		Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0018)		
Note: D-2729 PVC pipe.				
33 31 11 00-0029	LF	3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	13.70	6.20
33 31 11 00-0030	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	16.09	7.24
33 31 11 00-0031	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe	20.00	8.42
33 31 11 00-0032		Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0018)		
33 31 11 00-0033		1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0034	EA	1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	31.36	15.13
33 31 11 00-0035	EA	2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	40.29	19.57
33 31 11 00-0036	EA	3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	73.66	26.27
33 31 11 00-0037	EA	4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	118.05	30.37
33 31 11 00-0038	EA	6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	500.72	39.47
33 31 11 00-0039	EA	8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	835.81	53.11



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0040	EA	10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,103.14	70.74
33 31 11 00-0041		1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0042	EA	1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	33.36	15.13
33 31 11 00-0043	EA	2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.12	19.57
33 31 11 00-0044	EA	3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	70.66	26.27
33 31 11 00-0045	EA	4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	103.37	30.37
33 31 11 00-0046	EA	6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	463.36	39.47
33 31 11 00-0047	EA	8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	748.98	53.11
33 31 11 00-0048	EA	10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	847.71	70.74
33 31 11 00-0049	EA	12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,264.01	94.21
33 31 11 00-0050		Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0051	EA	1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	55.71	14.89
33 31 11 00-0052	EA	2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	54.30	19.57
33 31 11 00-0053	EA	3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	109.68	26.27
33 31 11 00-0054	EA	4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	184.10	30.37
33 31 11 00-0055	EA	6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	373.14	39.47
33 31 11 00-0056	EA	8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	668.15	53.11
33 31 11 00-0057	EA	10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,100.13	70.74
33 31 11 00-0058	EA	12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,672.52	94.21
33 31 11 00-0059		1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0060	EA	1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	37.63	15.13
33 31 11 00-0061	EA	2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	44.47	19.57
33 31 11 00-0062	EA	3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	83.13	26.27
33 31 11 00-0063	EA	4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	126.52	30.37
33 31 11 00-0064	EA	6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	624.99	39.47
33 31 11 00-0065	EA	8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,016.73	53.11
33 31 11 00-0066	EA	10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,144.33	70.74
33 31 11 00-0067	EA	12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,165.15	94.21
33 31 11 00-0068		Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0069	EA	2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	43.28	17.27
33 31 11 00-0070	EA	3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	86.31	20.60
33 31 11 00-0071	EA	3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	80.47	22.72
33 31 11 00-0072	EA	4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	129.03	24.84
33 31 11 00-0073	EA	4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	138.21	28.18
33 31 11 00-0074	EA	6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	441.47	34.88
33 31 11 00-0075	EA	8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	947.87	46.24
33 31 11 00-0076	EA	10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	202.29	50.49
33 31 11 00-0077	EA	10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	279.97	55.07
33 31 11 00-0078	EA	10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	262.13	61.85
33 31 11 00-0079	EA	12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	979.02	66.86
33 31 11 00-0080	EA	12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,033.06	73.64
33 31 11 00-0081	EA	12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,092.45	82.48
33 31 11 00-0082		Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0083	EA	1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	49.77	22.85
33 31 11 00-0084	EA	2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	66.45	29.57
33 31 11 00-0085	EA	3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	117.60	39.01
33 31 11 00-0086	EA	4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	185.20	48.45
33 31 11 00-0087	EA	6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	734.42	53.11
33 31 11 00-0088	EA	8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	952.65	70.74
33 31 11 00-0089		Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0090	EA	1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	65.28	22.85
33 31 11 00-0091	EA	2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	75.47	29.57
33 31 11 00-0092	EA	3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	129.12	39.01
33 31 11 00-0093	EA	4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	204.04	48.45
33 31 11 00-0094	EA	6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	663.71	53.11
33 31 11 00-0095	EA	8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	818.33	70.74
33 31 11 00-0096	EA	10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,076.05	94.39
33 31 11 00-0097	EA	12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,706.83	125.97
33 31 11 00-0098		Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0099	EA	2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	89.63	22.85
33 31 11 00-0100	EA	2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	99.15	29.57
33 31 11 00-0101	EA	3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	113.11	39.01
33 31 11 00-0102	EA	4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	178.19	48.45
33 31 11 00-0103	EA	4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	195.87	48.45

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0104 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0105 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	110.32	29.57
33 31 11 00-0106 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	143.46	39.01
33 31 11 00-0107 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	298.26	52.65
33 31 11 00-0108 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	540.18	63.69
33 31 11 00-0109 EA 2" x 2" x 1-1/2" x 1-1/2 Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	136.12	39.01
33 31 11 00-0110 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	242.22	52.65
33 31 11 00-0111 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	447.62	63.69
33 31 11 00-0112 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0113 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	84.63	22.85
33 31 11 00-0114 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	105.65	29.57
33 31 11 00-0115 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	219.84	39.01
33 31 11 00-0116 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	407.51	48.45
33 31 11 00-0117 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	171.37	29.57
33 31 11 00-0118 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	279.36	39.01
33 31 11 00-0119 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	196.56	39.01
33 31 11 00-0120 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	379.61	48.45
33 31 11 00-0121 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	405.13	48.45
33 31 11 00-0122 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0123 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	125.34	29.57
33 31 11 00-0124 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	145.13	39.01
33 31 11 00-0125 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	229.37	52.65
33 31 11 00-0126 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	888.09	63.69
33 31 11 00-0127 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	2,983.09	70.51
33 31 11 00-0128 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0129 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	671.15	120.36
33 31 11 00-0130 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	1,658.39	155.29
33 31 11 00-0131 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	2,103.13	218.83
33 31 11 00-0132 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain.....	2,882.10	352.02
33 31 11 00-0133 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0134 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	30.30	15.13
33 31 11 00-0135 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	37.63	19.44
33 31 11 00-0136 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	60.86	26.04
33 31 11 00-0137 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	81.23	30.37
33 31 11 00-0138 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	256.41	39.47
33 31 11 00-0139 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	649.17	53.11
33 31 11 00-0140 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	988.75	70.74
33 31 11 00-0141 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,644.92	94.21
33 31 11 00-0142 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0143 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting.....	147.51	84.12
33 31 11 00-0144 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting.....	103.15	63.99
33 31 11 00-0145 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting.....	106.27	63.99
33 31 11 00-0146 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting.....	114.54	63.99
33 31 11 00-0147 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	149.78	84.12
33 31 11 00-0148 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	143.16	84.12
33 31 11 00-0149 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting.....	132.28	84.12
33 31 11 00-0150 EA 4" Drain Grate, Drain And Sewer Fitting.....	72.95	43.26
33 31 11 00-0151 Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0152 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting.....	43.37	16.27
33 31 11 00-0153 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting.....	73.35	20.25
33 31 11 00-0154 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting.....	142.08	26.15
33 31 11 00-0155 Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0032)		
33 31 11 00-0156 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	26.47	15.13
33 31 11 00-0157 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	34.49	19.57
33 31 11 00-0158 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	51.76	26.27
33 31 11 00-0159 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	69.14	30.37
33 31 11 00-0160 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	121.64	39.47
33 31 11 00-0161 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	481.46	53.11
33 31 11 00-0162 Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018) Note: ASTM 3034.		



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0163	LF	4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	18.30	7.24
		For SDR 26, Add	0.75	
33 31 11 00-0164	LF	6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	24.12	8.42
		For SDR 26, Add	1.43	
33 31 11 00-0165	LF	8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	31.96	9.78
		For SDR 26, Add	2.43	
33 31 11 00-0166	LF	10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	38.85	10.13
		For SDR 26, Add	3.64	
33 31 11 00-0167	LF	12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	47.14	10.49
		For SDR 26, Add	5.13	
33 31 11 00-0168	LF	15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	60.95	10.86
		For SDR 26, Add	7.69	
33 31 11 00-0169	LF	18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	76.76	11.26
33 31 11 00-0170	LF	21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	99.24	12.22
33 31 11 00-0171	LF	24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	120.05	13.19
33 31 11 00-0172	LF	27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe	149.11	15.47
33 31 11 00-0173 Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0018)				
Note: ASTM 3034.				
33 31 11 00-0174	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	17.50	7.24
		For SDR 26, Add	0.59	
33 31 11 00-0175	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	22.88	8.42
		For SDR 26, Add	1.19	
33 31 11 00-0176	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe	30.15	9.78
		For SDR 26, Add	2.07	
33 31 11 00-0177 Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0018)				
Note: ASTM 3034.				
33 31 11 00-0178 1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0179	EA	4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	89.61	27.56
		For SDR 26, Add	4.19	
33 31 11 00-0180	EA	6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	133.76	32.04
		For SDR 26, Add	7.71	
33 31 11 00-0181	EA	8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	283.13	36.31
		For SDR 26, Add	21.34	
33 31 11 00-0182	EA	10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	818.75	42.72
		For SDR 26, Add	71.76	
33 31 11 00-0183	EA	12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,058.07	54.47
		For SDR 26, Add	92.86	
33 31 11 00-0184 1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0185	EA	4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	80.63	27.56
		For SDR 26, Add	3.33	
33 31 11 00-0186	EA	6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	123.86	32.04
		For SDR 26, Add	6.76	
33 31 11 00-0187	EA	8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	258.09	36.31
		For SDR 26, Add	18.93	
33 31 11 00-0188	EA	10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	583.04	42.72
		For SDR 26, Add	49.13	
33 31 11 00-0189	EA	12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	833.95	54.47
		For SDR 26, Add	71.34	
33 31 11 00-0190	EA	15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,792.28	76.89
		For SDR 26, Add	159.76	
33 31 11 00-0191	EA	18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,845.07	108.94
33 31 11 00-0192	EA	21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	4,751.19	144.18
33 31 11 00-0193	EA	24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC)	6,478.81	192.24
33 31 11 00-0194 Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0195	EA	4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	135.70	41.33
		For SDR 26, Add	6.41	
33 31 11 00-0196	EA	6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	220.97	45.82
		For SDR 26, Add	13.88	
33 31 11 00-0197	EA	6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	248.72	48.06
		For SDR 26, Add	16.19	
33 31 11 00-0198	EA	8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	274.90	50.30
		For SDR 26, Add	18.34	
33 31 11 00-0199	EA	8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	315.43	52.55
		For SDR 26, Add	21.87	
33 31 11 00-0200	EA	8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	609.76	54.79
		For SDR 26, Add	49.77	
33 31 11 00-0201	EA	10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	782.71	56.07
		For SDR 26, Add	66.17	
33 31 11 00-0202	EA	10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	887.71	58.74
		For SDR 26, Add	75.83	
33 31 11 00-0203	EA	10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,313.96	60.99
		For SDR 26, Add	116.39	
33 31 11 00-0204	EA	10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,714.48	64.08
		For SDR 26, Add	154.34	

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0205 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	963.16	68.25
For SDR 26, Add	81.54	
33 31 11 00-0206 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,022.74	70.49
For SDR 26, Add	86.90	
33 31 11 00-0207 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,462.77	72.73
For SDR 26, Add	128.79	
33 31 11 00-0208 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,113.50	75.83
For SDR 26, Add	190.77	
33 31 11 00-0209 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,382.25	81.70
For SDR 26, Add	215.62	
33 31 11 00-0210 Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0211 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	128.73	41.33
For SDR 26, Add	5.74	
33 31 11 00-0212 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	197.75	45.82
For SDR 26, Add	11.65	
33 31 11 00-0213 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	217.53	48.06
For SDR 26, Add	13.19	
33 31 11 00-0214 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	264.94	50.30
33 31 11 00-0215 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	303.55	52.55
33 31 11 00-0216 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	467.86	54.79
33 31 11 00-0217 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	715.29	56.50
33 31 11 00-0218 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	729.52	58.74
33 31 11 00-0219 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,100.98	60.99
33 31 11 00-0220 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,218.69	64.08
33 31 11 00-0221 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	906.95	68.25
33 31 11 00-0222 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	935.41	70.49
33 31 11 00-0223 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,343.08	72.73
33 31 11 00-0224 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,619.84	75.83
33 31 11 00-0225 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,691.00	81.70
33 31 11 00-0226 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,084.27	98.26
33 31 11 00-0227 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,312.98	104.13
33 31 11 00-0228 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,893.68	115.35
33 31 11 00-0229 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0230 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	88.82	27.56
For SDR 26, Add	4.12	
33 31 11 00-0231 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	139.05	32.04
For SDR 26, Add	8.22	
33 31 11 00-0232 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	206.36	36.52
For SDR 26, Add	13.97	
33 31 11 00-0233 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	394.09	42.72
For SDR 26, Add	30.99	
33 31 11 00-0234 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	559.90	54.47
For SDR 26, Add	45.04	
33 31 11 00-0235 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,098.75	76.89
For SDR 26, Add	93.18	
33 31 11 00-0236 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,070.94	108.94
33 31 11 00-0237 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,460.26	144.18
33 31 11 00-0238 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	5,011.17	192.24
33 31 11 00-0239 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0240 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	172.77	29.79
For SDR 26, Add	11.82	
33 31 11 00-0241 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	248.86	32.04
For SDR 26, Add	18.76	
33 31 11 00-0242 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	262.38	34.28
For SDR 26, Add	19.70	
33 31 11 00-0243 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	595.87	37.38
For SDR 26, Add	51.23	
33 31 11 00-0244 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	685.24	39.62
For SDR 26, Add	59.45	
33 31 11 00-0245 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	765.78	43.26
For SDR 26, Add	66.59	
33 31 11 00-0246 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	879.41	45.50
For SDR 26, Add	77.14	
33 31 11 00-0247 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,008.77	48.60
For SDR 26, Add	89.07	
33 31 11 00-0248 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,519.69	65.69
For SDR 26, Add	135.38	
33 31 11 00-0249 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)		
33 31 11 00-0250 EA 6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	142.07	
For SDR 26, Add	8.51	
33 31 11 00-0251 EA 8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC).....	188.13	
For SDR 26, Add	11.91	



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 31 11 00-0252	EA 8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	192.43 12.32		
33 31 11 00-0253	EA 10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	320.76 23.62		
33 31 11 00-0254	EA 10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	338.76 25.34		
33 31 11 00-0255	EA 10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	648.50 55.08		
33 31 11 00-0256	EA 12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	364.95 26.32		
33 31 11 00-0257	EA 12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	398.70 29.56		
33 31 11 00-0258	EA 12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	898.76 77.57		
33 31 11 00-0259	EA 12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	1,061.27 93.17		
33 31 11 00-0260	EA 15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	417.08 27.74		
33 31 11 00-0261	EA 15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	446.53 30.56		
33 31 11 00-0262 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0177)				
33 31 11 00-0263	EA 6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	152.15 9.48		
33 31 11 00-0264	EA 8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	188.13 11.91		
33 31 11 00-0265	EA 8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	206.15 13.64		
33 31 11 00-0266	EA 10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	294.05 21.05		
33 31 11 00-0267	EA 10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	336.61 25.14		
33 31 11 00-0268	EA 10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	514.06 42.17		
33 31 11 00-0269	EA 12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	362.81 26.11		
33 31 11 00-0270	EA 12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	396.66 29.36		
33 31 11 00-0271	EA 12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	597.75 48.67		
33 31 11 00-0272	EA 12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	728.99 61.27		
33 31 11 00-0273	EA 15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	415.75 27.61		
33 31 11 00-0274	EA 15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	436.55 29.61		
33 31 11 00-0275	EA 15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	733.88 58.15		
33 31 11 00-0276	EA 15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	813.07 65.75		
33 31 11 00-0277	EA 15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)..... <i>For SDR 26, Add</i>	1,153.46 98.43		
33 31 11 00-0278 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe and Fittings (33 31 11 00-0018) Note: ASTM F949.				
33 31 11 00-0279 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe (33 31				
11 00-0278)				
33 31 11 00-0280	LF 4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	16.58		7.24
33 31 11 00-0281	LF 6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	22.19		8.42
33 31 11 00-0282	LF 8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	27.62		9.78
33 31 11 00-0283	LF 10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	31.85		10.13
33 31 11 00-0284	LF 12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	33.56		10.49
33 31 11 00-0285	LF 15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	38.60		10.86
33 31 11 00-0286	LF 18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	47.68		11.26
33 31 11 00-0287	LF 21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	55.09		12.22
33 31 11 00-0288	LF 24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	66.47		13.19
33 31 11 00-0289	LF 30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	94.73		17.75
33 31 11 00-0290 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0278)				
33 31 11 00-0291	EA 4" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	55.64		
33 31 11 00-0292	EA 6" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	74.09		
33 31 11 00-0293	EA 8" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	101.21		
33 31 11 00-0294	EA 10" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	166.68		
33 31 11 00-0295	EA 12" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	181.00		
33 31 11 00-0296	EA 15" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	295.07		
33 31 11 00-0297	EA 18" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)	462.04		

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0298	EA		21" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	645.88	
33 31 11 00-0299	EA		24" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	829.64	
33 31 11 00-0300	EA		30" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,088.28	
33 31 11 00-0301			1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0278)		
33 31 11 00-0302	EA		4" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	52.47	
33 31 11 00-0303	EA		6" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	69.40	
33 31 11 00-0304	EA		8" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	94.38	
33 31 11 00-0305	EA		10" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	153.85	
33 31 11 00-0306	EA		12" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	167.57	
33 31 11 00-0307	EA		15" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	271.34	
33 31 11 00-0308	EA		18" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	423.34	
33 31 11 00-0309	EA		21" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	588.44	
33 31 11 00-0310	EA		24" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	753.56	
33 31 11 00-0311	EA		30" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	986.76	
33 31 11 00-0312			1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0278)		
33 31 11 00-0313	EA		4" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	47.72	
33 31 11 00-0314	EA		6" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	59.50	
33 31 11 00-0315	EA		8" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	89.33	
33 31 11 00-0316	EA		10" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	112.71	
33 31 11 00-0317	EA		12" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	153.31	
33 31 11 00-0318	EA		15" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	246.12	
33 31 11 00-0319	EA		18" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	357.02	
33 31 11 00-0320	EA		21" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	529.68	
33 31 11 00-0321	EA		24" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	702.32	
33 31 11 00-0322	EA		30" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	984.33	
33 31 11 00-0323			Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0278)		
33 31 11 00-0324	EA		4" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	86.27	
33 31 11 00-0325	EA		6" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	110.34	
33 31 11 00-0326	EA		8" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	188.32	
33 31 11 00-0327	EA		10" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	296.17	
33 31 11 00-0328	EA		12" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	482.08	
33 31 11 00-0329	EA		15" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	685.13	
33 31 11 00-0330	EA		18" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	990.72	
33 31 11 00-0331	EA		21" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,136.06	
33 31 11 00-0332	EA		24" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,281.36	
33 31 11 00-0333	EA		30" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	2,292.13	
33 31 11 00-0334			Tees, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) (33 31 11 00-0278)		
33 31 11 00-0335	EA		4" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	79.78	
33 31 11 00-0336	EA		6" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	101.44	
33 31 11 00-0337	EA		8" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	170.13	
33 31 11 00-0338	EA		10" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	265.09	
33 31 11 00-0339	EA		12" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	427.47	
33 31 11 00-0340	EA		15" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	606.31	
33 31 11 00-0341	EA		18" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	875.32	
33 31 11 00-0342	EA		21" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,002.20	
33 31 11 00-0343	EA		24" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,129.07	
33 31 11 00-0344	EA		30" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	2,006.02	
33 31 11 00-0345			Couplings And Plug Fittings (33 31 11)		
33 31 11 00-0346			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)		
			Flexible Pipe Couplings (33 31 11 00-0345)		
			Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0347	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	22.63	7.96
33 31 11 00-0348	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	24.73	9.29
33 31 11 00-0349	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	28.67	10.62
33 31 11 00-0350	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	32.53	11.28
33 31 11 00-0351	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	39.97	11.94
33 31 11 00-0352	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	47.46	13.27
33 31 11 00-0353	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	60.61	14.60
33 31 11 00-0354	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	75.06	15.26
33 31 11 00-0355	EA		12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	124.84	15.92
33 31 11 00-0356	EA		15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	170.45	17.25
33 31 11 00-0357	EA		18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	330.20	17.91
33 31 11 00-0358	EA		21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	383.85	18.91
33 31 11 00-0359	EA		24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	425.37	19.91
33 31 11 00-0360	EA		27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	509.77	21.23



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 31 11 00-0361	Manhole Inside Bowl Drop (33 31 11)	
33 31 11 00-0362	EA Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4DB)	348.88
33 31 11 00-0363	EA Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)	365.73
33 31 11 00-0364	EA Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6DB)	375.14
33 31 11 00-0365	EA Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)	387.97
33 31 11 00-0366	EA Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DB)	403.34
33 31 11 00-0367	EA Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DBR84)	432.49
33 31 11 00-0368	EA Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10DB)	450.58
33 31 11 00-0369	EA Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96)	465.16
33 31 11 00-0370	EA Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R60)	799.98
33 31 11 00-0371	EA Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96)	821.84

33 32 Sanitary Sewerage Equipment (33 30)

33 32 16 Packaged Wastewater Grinder Pump Assemblies (33 32)

33 32 16 00-0001	Submersible Grinder Pumps, Cast Iron With Bronze Impeller (33 32 16)	
33 32 16 00-0002	EA 2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge.....	2,266.38
	Note: Zoeller 840 series.	
33 32 16 00-0003	EA 2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge	2,235.68
	Note: Zoeller 840 series.	
33 32 16 00-0004	EA Simplex Control Panel With Auto Reversing Switch	1,057.49
	Note: For Zoeller 840 series grinder pump.	
33 32 16 00-0005	EA Duplex Control Panel With Auto Reversing Switch	1,627.98
	Note: For Zoeller 840 series grinder pump.	
33 32 16 00-0006	EA Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74)	13,716.40
33 32 16 00-0007	Submersible Grinder Pumps (33 32 16)	
	Note: Includes 50' of cord with pumps unless otherwise noted.	
33 32 16 00-0008	EA 2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	3,970.53
33 32 16 00-0009	EA 3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	5,882.40
33 32 16 00-0010	EA 5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof	7,214.90

33 34 Onsite Wastewater Disposal (33 30)

Note: Excludes distribution field piping, trenching or excavation.

33 34 13 Septic Tanks (33 34)

33 34 13 13 Concrete Septic Tanks (33 34 13)

33 34 13 13-0001	Precast Concrete Septic Tank (33 34 13 13)	
	Note: Includes external coating.	
33 34 13 13-0002	EA 1,000 Gallon Precast Septic Tank	4,314.25
	For Non-Traffic Rated, Deduct	
	-839.02	
33 34 13 13-0003	EA 1,250 Gallon Precast Septic Tank	5,189.21
	For Non-Traffic Rated, Deduct	
	-1,032.96	
33 34 13 13-0004	EA 1,500 Gallon Precast Septic Tank	6,030.26
	For Non-Traffic Rated, Deduct	
	-1,218.40	
33 34 13 13-0005	EA 2,000 Gallon Precast Septic Tank	7,751.09
	For Non-Traffic Rated, Deduct	
	-1,624.37	
33 34 13 13-0006	EA 2,500 Gallon Precast Septic Tank	9,224.77
	For Non-Traffic Rated, Deduct	
	-1,873.64	
33 34 13 13-0007	EA 4,000 Gallon Precast Septic Tank	24,633.01
	For Non-Traffic Rated, Deduct	
	-5,560.09	
33 34 13 13-0008	EA 5,000 Gallon Precast Septic Tank	44,828.42
	For Non-Traffic Rated, Deduct	
	-10,312.42	
33 34 13 13-0009	EA 7,500 Gallon Precast Septic Tank	50,218.46
	For Non-Traffic Rated, Deduct	
	-11,308.45	
33 34 13 13-0010	EA 10,000 Gallon Precast Septic Tank	61,583.83
	For Non-Traffic Rated, Deduct	
	-13,900.56	
33 34 13 13-0011	EA 12,500 Gallon Precast Septic Tank	72,755.31
	For Non-Traffic Rated, Deduct	
	-16,319.58	

33 34 13 23 Fiberglass Septic Tank (33 34 13)

33 34 13 23-0001	Fiberglass Septic Tank (33 34 13 23)	
33 34 13 23-0002	EA 1,000 Gallon Fiberglass Septic Tank	4,827.29
33 34 13 23-0003	EA 1,250 Gallon Fiberglass Septic Tank	5,680.68
33 34 13 23-0004	EA 1,500 Gallon Fiberglass Septic Tank	6,547.04
33 34 13 23-0005	EA 2,000 Gallon Fiberglass Septic Tank	10,963.99
33 34 13 23-0006	EA 2,500 Gallon Fiberglass Septic Tank	13,760.88
33 34 13 23-0007	EA 4,000 Gallon Fiberglass Septic Tank	21,829.93
33 34 13 23-0008	EA 5,000 Gallon Fiberglass Septic Tank	32,398.78
33 34 13 23-0009	EA 7,500 Gallon Fiberglass Septic Tank	44,479.38
33 34 13 23-0010	EA 10,000 Gallon Fiberglass Septic Tank	54,585.34

33 Utilities**33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 34 13 33 Polyethylene Septic Tank (33 34 13)

33 34 13 33-0001	High-Density Polyethylene (HDPE) Septic Tank (33 34 13 33)		
33 34 13 33-0002	EA 300 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank.....	1,366.90	239.66
33 34 13 33-0003	EA 500 Gallon One Compartment One Manhole High-Density Polyethylene (HDPE) Septic Tank.....	2,107.55	269.62
33 34 13 33-0004	EA 900 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	2,931.69	329.54
33 34 13 33-0005	EA 1,000 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	3,009.92	359.49
33 34 13 33-0006	EA 1,250 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	3,488.76	389.45
33 34 13 33-0007	EA 1,500 Gallon One Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	4,187.52	419.41
33 34 13 33-0008	EA 750 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	2,952.93	299.58
33 34 13 33-0009	EA 1,000 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	3,219.38	359.49
33 34 13 33-0010	EA 1,250 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	3,787.23	389.45
33 34 13 33-0011	EA 1,500 Gallon Two Compartment Two Manhole High-Density Polyethylene (HDPE) Septic Tank.....	4,449.35	419.41

33 34 51 Drainage Field System (33 34)

33 34 51 00-0001	Leaching Pit - Precast Concrete (33 34 51)		
	Note: Includes external coating.		
33 34 51 00-0002	EA 3' Diameter, 3' High, Precast Concrete Leaching Pit	1,035.78	114.43
33 34 51 00-0003	EA 4' Diameter, 3' High, Precast Concrete Leaching Pit	1,459.87	162.55
33 34 51 00-0004	EA 6' Diameter, 3' High, Precast Concrete Leaching Pit	1,944.57	195.06
33 34 51 00-0005	EA 8' Diameter, 4' High, Precast Concrete Leaching Pit	3,163.87	325.08
33 34 51 00-0006	EA 10' Diameter, 4' High, Precast Concrete Leaching Pit	4,622.11	455.12

33 34 53 Distribution Chambers (33 34)**33 34 53 13 Drainage Field Concrete Distribution Chambers (33 34 53)**

33 34 53 13-0001	Concrete Distribution Boxes (33 34 53 13)		
	Note: Includes internal and external coating.		
33 34 53 13-0002	EA 3 Outlet Concrete Distribution Box.....	378.91	83.42
33 34 53 13-0003	EA 5 Outlet Concrete Distribution Box.....	441.08	100.10
33 34 53 13-0004	EA 8 Outlet Concrete Distribution Box.....	770.31	116.79
33 34 53 13-0005	EA 12 Outlet Concrete Distribution Box.....	1,521.01	200.20

33 34 53 13-0006 Leaching Field Chambers - Precast Concrete (33 34 53 13)

33 34 53 13-0007	EA Standard Leaching Field Chamber 13' x 3'-7" x 1'-4".....	1,214.87	98.81
33 34 53 13-0008	EA Heavy-Duty Leaching Field Chamber 13' x 3'-9" x 1'-6".....	1,482.84	134.73

33 34 53 33 Drainage Field Polyethylene Distribution Chambers (33 34 53)

33 34 53 33-0001	Leaching Field Chambers - High-Density Polyethylene (HDPE) (33 34 53 33)		
33 34 53 33-0002	LF 16" Wide x 11" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	23.06	6.16
33 34 53 33-0003	LF 22" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	29.85	6.68
33 34 53 33-0004	LF 34" Wide x 12" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	40.50	7.29
33 34 53 33-0005	LF 34" Wide x 16" High, High-Density Polyethylene (HDPE) Leaching Field Chamber	59.03	8.02

33 34 56 Drainage Field Dosing Chambers (33 34)

33 34 56 00-0001	Dosing Siphon (33 34 56)		
33 34 56 00-0002	EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	6,164.67	
33 34 56 00-0003	EA Solar Power Control For Dosing Siphon	4,232.95	
33 34 56 00-0004	EA Electrical Power Control For Dosing Siphon	4,067.53	

33 40 Stormwater Utilities (33)**33 41 Subdrainage (33 40)****33 41 16 Subdrainage Piping (33 41)****33 41 16 13 Subdrainage Piping (33 41 16)**

See CSI section 33 42 11 00-0239 for polyethylene drain pipe.

33 41 16 13-0001	Corrugated High-Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)		
33 41 16 13-0002	Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0001)		
	Note: Excludes couplings and gaskets.		
33 41 16 13-0003	Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0004	LF 4" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	6.39	5.19
	For <100, Add	1.10	
	For >1,000, Deduct	-0.58	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 41 16 13-0005	LF 6" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	8.23		5.55
	For <100, Add	1.24		
	For >1,000, Deduct	-0.69		
33 41 16 13-0006	LF 8" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	10.57		5.83
	For <100, Add	1.40		
	For >1,000, Deduct	-0.82		
33 41 16 13-0007	LF 10" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	14.77		6.01
	For <100, Add	1.64		
	For >1,000, Deduct	-1.04		
33 41 16 13-0008	LF 12" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	17.50		6.57
	For <100, Add	1.86		
	For >1,000, Deduct	-1.20		
33 41 16 13-0009	LF 15" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	23.32		7.41
	For <100, Add	2.28		
	For >1,000, Deduct	-1.54		
33 41 16 13-0010	LF 18" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	37.18		12.26
	For <100, Add	3.70		
	For >1,000, Deduct	-2.47		
33 41 16 13-0011	LF 24" Coupled, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	52.36		13.46
	For <100, Add	4.64		
	For >1,000, Deduct	-3.29		
33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 41 16 13-0002)				
33 41 16 13-0013	LF 4" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	6.22		5.19
	For <100, Add	1.09		
	For >1,000, Deduct	-0.57		
33 41 16 13-0014	LF 6" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	8.16		5.55
	For <100, Add	1.24		
	For >1,000, Deduct	-0.69		
33 41 16 13-0015	LF 8" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	13.83		5.83
	For <100, Add	1.57		
	For >1,000, Deduct	-0.98		
33 41 16 13-0016	LF 10" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	16.49		6.01
	For <100, Add	1.73		
	For >1,000, Deduct	-1.13		
33 41 16 13-0017	LF 12" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	19.38		6.57
	For <100, Add	1.95		
	For >1,000, Deduct	-1.30		
33 41 16 13-0018	LF 15" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	23.12		7.41
	For <100, Add	2.27		
	For >1,000, Deduct	-1.53		
33 41 16 13-0019	LF 18" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	35.94		12.26
	For <100, Add	3.64		
	For >1,000, Deduct	-2.41		
33 41 16 13-0020	LF 24" Coupled, Perforated, Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	50.40		13.46
	For <100, Add	4.54		
	For >1,000, Deduct	-3.19		
33 41 16 13-0021 Single Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 41 16 13-0001)				
Note: Excludes couplings and gaskets.				
33 41 16 13-0022 Tees, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0023	EA 4" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	45.45		25.64
33 41 16 13-0024	EA 6" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	53.86		29.92
33 41 16 13-0025	EA 8" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	83.32		36.34
33 41 16 13-0026	EA 10" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	106.37		44.88
33 41 16 13-0027	EA 12" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	153.49		53.43
33 41 16 13-0028	EA 15" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	317.83		69.82
33 41 16 13-0029	EA 18" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	383.59		94.02
33 41 16 13-0030	EA 24" Tee, Single Wall, Corrugated High-Density Polyethylene (HDPE)	701.95		106.86
33 41 16 13-0031 Wyees, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0032	EA 4" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	46.49		25.64
33 41 16 13-0033	EA 6" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	57.27		29.92
33 41 16 13-0034	EA 8" Wye, Single Wall, Corrugated High-Density Polyethylene (HDPE)	119.00		36.34
33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0036	EA 4" 45 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	30.65		17.10
33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High-Density Polyethylene (HDPE) (33 41 16 13-0021)				
33 41 16 13-0038	EA 4" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	31.75		17.10
33 41 16 13-0039	EA 6" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	40.32		19.95
33 41 16 13-0040	EA 8" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	58.09		24.22
33 41 16 13-0041	EA 10" 90 Degree Bend, Single Wall, Corrugated High-Density Polyethylene (HDPE)	75.88		29.92

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16 13)		
Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping 7.08		4.43
For <100, Add	1.02	
For >1,000, Deduct	-0.58	
33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping 7.72		4.78
For <100, Add	1.10	
For >1,000, Deduct	-0.63	
33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping 10.80		5.74
For <100, Add	1.40	
For >1,000, Deduct	-0.83	
33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping 16.63		7.18
For <100, Add	1.91	
For >1,000, Deduct	-1.19	
33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping 26.37		7.46
For <100, Add	2.44	
For >1,000, Deduct	-1.69	
33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping 33.47		8.15
For <100, Add	2.90	
For >1,000, Deduct	-2.08	
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping 45.89		9.18
For <100, Add	3.67	
For >1,000, Deduct	-2.75	
33 41 16 13-0050 Perforated Non-Reinforced Concrete Drainage Piping, C444 (33 41 16 13)		
33 41 16 13-0051 LF 6" Perforated Non-Reinforced Concrete Drainage Pipe 36.80		13.17
For Extra Strength, Add	2.11	
For >1,000, Deduct	-1.84	
33 41 16 13-0052 LF 8" Perforated Non-Reinforced Concrete Drainage Pipe 43.07		14.63
For Extra Strength, Add	2.60	
For >1,000, Deduct	-2.15	
33 41 16 13-0053 LF 10" Perforated Non-Reinforced Concrete Drainage Pipe 48.80		16.10
For Extra Strength, Add	3.03	
For >1,000, Deduct	-2.44	
33 41 16 13-0054 LF 12" Perforated Non-Reinforced Concrete Drainage Pipe 57.42		17.56
For Extra Strength, Add	3.80	
For >1,000, Deduct	-2.87	
33 41 16 13-0055 Extra Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056 LF 6" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 30.25		13.17
For >1,000, Deduct	-1.51	
33 41 16 13-0057 LF 8" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 33.46		14.63
For >1,000, Deduct	-1.67	
33 41 16 13-0058 LF 10" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 36.93		16.10
For >1,000, Deduct	-1.85	
33 41 16 13-0059 LF 12" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 42.24		16.72
For >1,000, Deduct	-2.11	
33 41 16 13-0060 LF 15" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 49.17		18.82
For >1,000, Deduct	-2.46	
33 41 16 13-0061 LF 18" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 60.83		24.04
For >1,000, Deduct	-3.04	
33 41 16 13-0062 LF 21" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 75.95		30.83
For >1,000, Deduct	-3.80	
33 41 16 13-0063 LF 24" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe 92.61		37.64
For >1,000, Deduct	-4.63	
33 41 16 13-0064 Standard Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)		
33 41 16 13-0065 LF 6" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe 28.09		13.17
For >1,000, Deduct	-1.40	
33 41 16 13-0066 LF 8" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe 35.86		14.63
For >1,000, Deduct	-1.79	
33 41 16 13-0067 LF 10" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe 45.59		16.10
For >1,000, Deduct	-2.28	
33 41 16 13-0068 LF 12" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe 55.51		17.56
For >1,000, Deduct	-2.78	
33 41 16 13-0069 LF 15" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe 63.62		19.54
For >1,000, Deduct	-3.18	
33 41 16 13-0070 LF 18" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe 82.53		24.37
For >1,000, Deduct	-4.13	
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe 27.57		14.63
33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe 32.98		16.47
33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe 37.71		16.47



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0075	LF	10" Perforated Vitrified Clay Drainage Pipe.....	50.63	20.13
33 41 16 13-0076	LF	12" Perforated Vitrified Clay Drainage Pipe.....	60.24	21.95
33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)				
33 41 16 13-0078	LF	3" Geotextile Filter Fabric Sock	0.86	
33 41 16 13-0079	LF	4" Geotextile Filter Fabric Sock	1.14	
33 41 16 13-0080	LF	6" Geotextile Filter Fabric Sock	1.72	
33 41 16 13-0081	LF	8" Geotextile Filter Fabric Sock	2.32	
33 41 16 13-0082	LF	10" Geotextile Filter Fabric Sock	3.48	
33 41 16 13-0083	LF	12" Geotextile Filter Fabric Sock	4.80	
33 41 16 13-0084	LF	15" Geotextile Filter Fabric Sock	5.78	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13)				
Note: Perforations are located in the bottom quarter points of the pipe.				
33 41 16 13-0086	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	25.83	6.27
		For Full Perforated, Add	1.33	
33 41 16 13-0087	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	32.70	7.60
		For Full Perforated, Add	1.75	
33 41 16 13-0088	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	41.24	9.65
		For Full Perforated, Add	2.19	
33 41 16 13-0089	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	45.75	11.41
		For Full Perforated, Add	2.29	
33 41 16 13-0090	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	52.44	11.80
		For Full Perforated, Add	2.88	
33 41 16 13-0091	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	59.29	12.24
		For Full Perforated, Add	3.48	
33 41 16 13-0092	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe	67.86	13.20
		For Full Perforated, Add	4.15	
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)				
Note: Perforations are located in the bottom quarter points of the pipe.				
33 41 16 13-0094	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	27.96	6.27
		For Full Perforated, Add	1.54	
33 41 16 13-0095	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	35.59	7.60
		For Full Perforated, Add	2.04	
33 41 16 13-0096	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	44.77	9.65
		For Full Perforated, Add	2.55	
33 41 16 13-0097	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	49.19	11.41
		For Full Perforated, Add	2.64	
33 41 16 13-0098	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	56.69	11.80
		For Full Perforated, Add	3.31	
33 41 16 13-0099	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	64.33	12.24
		For Full Perforated, Add	3.99	
33 41 16 13-0100	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe	73.73	13.20
		For Full Perforated, Add	4.73	
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)				
Note: Perforations are located in the bottom quarter points of the pipe.				
33 41 16 13-0102	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	28.65	6.27
		For Full Perforated, Add	1.61	
33 41 16 13-0103	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	36.48	7.60
		For Full Perforated, Add	2.13	
33 41 16 13-0104	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	45.90	9.65
		For Full Perforated, Add	2.66	
33 41 16 13-0105	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	57.67	11.41
		For Full Perforated, Add	3.49	
33 41 16 13-0106	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	67.24	11.80
		For Full Perforated, Add	4.36	
33 41 16 13-0107	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	77.12	12.24
		For Full Perforated, Add	5.27	
33 41 16 13-0108	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe	88.64	13.20
		For Full Perforated, Add	6.22	
33 41 16 13-0109 Prefabricated Composite Drains (33 41 16 13)				
33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) (33 41 16 13-0109)				
Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.				
33 41 16 13-0111	LF	12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	11.73	2.40
		For External Typar Geotextile Wrap, Add	2.17	
33 41 16 13-0112	EA	Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	53.34	
33 41 16 13-0113	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	53.34	
33 41 16 13-0114	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	103.66	
33 41 16 13-0115	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	103.66	
33 41 16 13-0116	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	18.79	3.00
		For External Typar Geotextile Wrap, Add	3.26	
33 41 16 13-0117	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	79.17	
33 41 16 13-0118	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	79.17	

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 41 16 13-0119	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	136.31	
33 41 16 13-0120	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)	136.31	

33 41 19 Underslab Drainage (33 41)**33 41 19 13 Underslab Drainage Piping (33 41 19)****33 41 19 13-0001 Capillary Water Barrier Underslab Drainage (33 41 19 13)**

Note: Consists of a layer of fine granular material overlying a coarse layer.

33 41 19 13-0002	CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	64.56	
33 41 19 13-0003	CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	61.77	
33 41 19 13-0004	CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	60.66	
33 41 19 13-0005	CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage	58.99	

33 42 Stormwater Conveyance (33 40)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping (33 42)**33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)**

Note: Includes detectable tracer wire.

33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)

33 42 11 00-0003	LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	55.28	17.56
		For Class 4, Add	2.87	
		For Class 5, Add	6.04	
		For >1,000, Deduct	-2.76	
33 42 11 00-0004	LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	66.57	19.54
		For Class 4, Add	3.67	
		For Class 5, Add	7.73	
		For >1,000, Deduct	-3.33	
33 42 11 00-0005	LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	75.48	24.37
		For Class 4, Add	3.86	
		For Class 5, Add	8.13	
		For >1,000, Deduct	-3.77	
33 42 11 00-0006	LF	21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	96.76	30.74
		For Class 4, Add	5.02	
		For Class 5, Add	10.57	
		For >1,000, Deduct	-4.84	
33 42 11 00-0007	LF	24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	113.11	37.32
		For Class 4, Add	5.68	
		For Class 5, Add	11.96	
		For >1,000, Deduct	-5.66	
33 42 11 00-0008	LF	27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	143.82	47.84
		For Class 4, Add	7.17	
		For Class 5, Add	15.10	
		For >1,000, Deduct	-7.19	
33 42 11 00-0009	LF	30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	153.04	49.40
		For Class 4, Add	7.76	
		For Class 5, Add	16.33	
		For >1,000, Deduct	-7.65	
33 42 11 00-0010	LF	36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	190.10	56.14
		For Class 4, Add	10.52	
		For Class 5, Add	22.14	
		For >1,000, Deduct	-9.51	
33 42 11 00-0011	LF	42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	247.55	61.76
		For Class 4, Add	15.22	
		For Class 5, Add	32.04	
		For >1,000, Deduct	-12.38	
33 42 11 00-0012	LF	48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	296.95	68.77
		For Class 4, Add	18.88	
		For Class 5, Add	39.74	
		For >1,000, Deduct	-14.85	
33 42 11 00-0013	LF	54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	370.29	78.59
		For Class 4, Add	24.51	
		For Class 5, Add	51.60	
		For >1,000, Deduct	-18.51	
33 42 11 00-0014	LF	60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	447.56	91.17
		For Class 4, Add	30.15	
		For Class 5, Add	63.46	
		For >1,000, Deduct	-22.38	
33 42 11 00-0015	LF	66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	694.21	101.05
		For Class 4, Add	52.30	
		For Class 5, Add	110.10	
		For >1,000, Deduct	-34.71	
33 42 11 00-0016	LF	72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	810.73	110.03
		For Class 4, Add	62.09	
		For Class 5, Add	130.71	
		For >1,000, Deduct	-40.54	
33 42 11 00-0017	LF	78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	975.86	123.50
		For Class 4, Add	75.91	
		For Class 5, Add	159.80	
		For >1,000, Deduct	-48.79	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-0018	LF 84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	1,259.43		137.54
	For Class 4, Add	100.98		
	For Class 5, Add	212.59		
	For >1,000, Deduct	-62.97		
33 42 11 00-0019	LF 14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	134.29		32.41
	For Class 4, Add	8.36		
	For Class 5, Add	17.60		
	For Horizontal Elliptical - II (HE- II), Add	8.80		
	For Horizontal Elliptical - III (HE- III), Add	19.36		
	For Horizontal Elliptical - IV (HE- IV), Add	42.24		
	For >1,000, Deduct	-6.71		
33 42 11 00-0020	LF 19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	186.02		49.63
	For Class 4, Add	10.94		
	For Class 5, Add	23.02		
	For Horizontal Elliptical - II (HE- II), Add	11.51		
	For Horizontal Elliptical - III (HE- III), Add	25.33		
	For Horizontal Elliptical - IV (HE- IV), Add	55.26		
	For >1,000, Deduct	-9.30		
33 42 11 00-0021	LF 22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	219.59		63.63
	For Class 4, Add	12.23		
	For Class 5, Add	25.74		
	For Horizontal Elliptical - II (HE- II), Add	12.87		
	For Horizontal Elliptical - III (HE- III), Add	28.31		
	For Horizontal Elliptical - IV (HE- IV), Add	61.77		
	For >1,000, Deduct	-10.98		
33 42 11 00-0022	LF 24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	233.21		66.48
	For Class 4, Add	13.13		
	For Class 5, Add	27.65		
	For Horizontal Elliptical - II (HE- II), Add	13.82		
	For Horizontal Elliptical - III (HE- III), Add	30.41		
	For Horizontal Elliptical - IV (HE- IV), Add	66.35		
	For >1,000, Deduct	-11.66		
33 42 11 00-0023	LF 27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	268.37		70.20
	For Class 4, Add	15.97		
	For Class 5, Add	33.62		
	For Horizontal Elliptical - II (HE- II), Add	16.81		
	For Horizontal Elliptical - III (HE- III), Add	36.98		
	For Horizontal Elliptical - IV (HE- IV), Add	80.68		
	For >1,000, Deduct	-13.42		
33 42 11 00-0024	LF 29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	303.53		73.90
	For Class 4, Add	18.81		
	For Class 5, Add	39.59		
	For Horizontal Elliptical - II (HE- II), Add	19.80		
	For Horizontal Elliptical - III (HE- III), Add	43.55		
	For Horizontal Elliptical - IV (HE- IV), Add	95.02		
	For >1,000, Deduct	-15.18		
33 42 11 00-0025	LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	370.83		81.33
	For Class 4, Add	24.19		
	For Class 5, Add	50.93		
	For Horizontal Elliptical - II (HE- II), Add	25.47		
	For Horizontal Elliptical - III (HE- III), Add	56.02		
	For Horizontal Elliptical - IV (HE- IV), Add	122.23		
	For >1,000, Deduct	-18.54		
33 42 11 00-0026	LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	447.49		91.46
	For Class 4, Add	30.10		
	For Class 5, Add	63.36		
	For Horizontal Elliptical - II (HE- II), Add	31.68		
	For Horizontal Elliptical - III (HE- III), Add	69.70		
	For Horizontal Elliptical - IV (HE- IV), Add	152.07		
	For >1,000, Deduct	-22.37		
33 42 11 00-0027	LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	509.34		104.53
	For Class 4, Add	34.20		
	For Class 5, Add	72.00		
	For Horizontal Elliptical - II (HE- II), Add	36.00		
	For Horizontal Elliptical - III (HE- III), Add	79.20		
	For Horizontal Elliptical - IV (HE- IV), Add	172.81		
	For >1,000, Deduct	-25.47		
33 42 11 00-0028	LF 48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	631.66		121.26
	For Class 4, Add	43.55		
	For Class 5, Add	91.69		
	For Horizontal Elliptical - II (HE- II), Add	45.84		
	For Horizontal Elliptical - III (HE- III), Add	100.86		
	For Horizontal Elliptical - IV (HE- IV), Add	220.05		
	For >1,000, Deduct	-31.58		
33 42 11 00-0029	LF 53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	721.45		133.61
	For Class 4, Add	50.41		
	For Class 5, Add	106.12		
	For >1,000, Deduct	-36.07		
33 42 11 00-0030	LF 58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	876.56		145.96
	For Class 4, Add	63.41		
	For Class 5, Add	133.50		
	For >1,000, Deduct	-43.83		
33 42 11 00-0031	LF 63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	1,048.19		165.04
	For Class 4, Add	77.23		
	For Class 5, Add	162.60		
	For >1,000, Deduct	-52.41		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0032 LF 68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	1,134.22	183.01
For Class 4, Add	82.92	
For Class 5, Add	174.58	
For >1,000, Deduct	-56.71	
33 42 11 00-0033 LF 72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,457.08	192.00
For Class 4, Add	112.35	
For Class 5, Add	236.54	
For >1,000, Deduct	-72.85	
33 42 11 00-0034 LF 77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,690.93	200.98
For Class 4, Add	133.33	
For Class 5, Add	280.69	
For >1,000, Deduct	-84.55	
33 42 11 00-0035 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)		
33 42 11 00-0036 EA 12" Concrete Reducing Wye Without Gaskets.....	691.92	66.90
33 42 11 00-0037 EA 15" Concrete Reducing Wye Without Gaskets.....	829.58	81.53
33 42 11 00-0038 EA 18" Concrete Reducing Wye Without Gaskets.....	1,026.53	89.90
33 42 11 00-0039 EA 21" Concrete Reducing Wye Without Gaskets.....	1,177.06	110.80
33 42 11 00-0040 EA 24" Concrete Reducing Wye Without Gaskets.....	1,329.20	133.80
33 42 11 00-0041 Concrete Pipe Joint Gaskets (33 42 11 00-0001)		
33 42 11 00-0042 EA 12" Diameter Concrete Pipe Joint Gasket.....	6.70	
33 42 11 00-0043 EA 15" Diameter Concrete Pipe Joint Gasket.....	7.92	
33 42 11 00-0044 EA 18" Diameter Concrete Pipe Joint Gasket.....	9.18	
33 42 11 00-0045 EA 21" Diameter Concrete Pipe Joint Gasket.....	11.09	
33 42 11 00-0046 EA 24" Diameter Concrete Pipe Joint Gasket.....	12.99	
33 42 11 00-0047 EA 27" Diameter Concrete Pipe Joint Gasket.....	14.48	
33 42 11 00-0048 EA 30" Diameter Concrete Pipe Joint Gasket.....	15.91	
33 42 11 00-0049 EA 36" Diameter Concrete Pipe Joint Gasket.....	19.44	
33 42 11 00-0050 EA 42" Diameter Concrete Pipe Joint Gasket.....	22.53	
33 42 11 00-0051 EA 48" Diameter Concrete Pipe Joint Gasket.....	25.99	
33 42 11 00-0052 EA 54" Diameter Concrete Pipe Joint Gasket.....	31.86	
33 42 11 00-0053 EA 60" Diameter Concrete Pipe Joint Gasket.....	47.16	
33 42 11 00-0054 EA 66" Diameter Concrete Pipe Joint Gasket.....	49.02	
33 42 11 00-0055 EA 72" Diameter Concrete Pipe Joint Gasket.....	50.83	
33 42 11 00-0056 EA 78" Diameter Concrete Pipe Joint Gasket.....	58.54	
33 42 11 00-0057 EA 84" Diameter Concrete Pipe Joint Gasket.....	70.17	
33 42 11 00-0058 Couplings (33 42 11 00-0001)		
33 42 11 00-0059 Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC)		
Flexible Pipe Couplings (33 42 11 00-0058)		
Note: For concrete to cast iron or plastic pipe. Includes stainless steel clamps. Fernco 1006.		
33 42 11 00-0060 EA 4" x 3" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	41.07	
33 42 11 00-0061 EA 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	38.24	
33 42 11 00-0062 EA 6" x 4" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	62.97	
33 42 11 00-0063 EA 6" x 5" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	65.24	
33 42 11 00-0064 EA 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	60.89	
33 42 11 00-0065 EA 8" x 6" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	91.22	
33 42 11 00-0066 EA 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	79.40	
33 42 11 00-0067 EA 10" x 8" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	113.97	
33 42 11 00-0068 EA 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	101.50	
33 42 11 00-0069 EA 12" x 10" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	137.07	
33 42 11 00-0070 EA 12" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	115.47	
33 42 11 00-0071 EA 15" Concrete To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling.....	349.26	
33 42 11 00-0072 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0073 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	288.87	197.60
33 42 11 00-0074 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	356.31	244.77
33 42 11 00-0075 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	441.69	309.89
33 42 11 00-0076 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	522.57	370.51
33 42 11 00-0077 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	601.11	428.79
33 42 11 00-0078 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	740.50	547.91
33 42 11 00-0079 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	967.53	754.50
33 42 11 00-0080 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,205.85	952.11
33 42 11 00-0081 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,488.48	1,194.40
33 42 11 00-0082 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,665.66	1,346.20
33 42 11 00-0083 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	1,859.49	1,509.00
33 42 11 00-0084 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,055.99	1,676.29
33 42 11 00-0085 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,136.42	1,740.29
33 42 11 00-0086 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,207.16	1,796.43
33 42 11 00-0087 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,277.89	1,852.56
33 42 11 00-0088 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall.....	2,350.47	1,908.71
33 42 11 00-0089 Strap Assembly (33 42 11 00-0001)		
Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-0090	EA Up To 24" Diameter Pipe, 12' Strap Assembly	255.09		
33 42 11 00-0091	EA >24" Diameter Pipe, 12' Strap Assembly	360.24		
33 42 11 00-0092	Prestressed Concrete Cylinder Piping (33 42 11)			
	Note: Includes detectable tracer wire.			
33 42 11 00-0093	150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0092)			
33 42 11 00-0094	150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0093)			
	Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".			
33 42 11 00-0095	LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	155.17		17.56
	For 100 PSI, Deduct	-32.52		
	For >1,000, Deduct	-7.76		
33 42 11 00-0096	LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	165.52		19.54
	For 100 PSI, Deduct	-34.40		
	For >1,000, Deduct	-8.28		
33 42 11 00-0097	LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	179.95		24.37
	For 100 PSI, Deduct	-36.29		
	For >1,000, Deduct	-9.00		
33 42 11 00-0098	LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	196.58		30.74
	For 100 PSI, Deduct	-38.17		
	For >1,000, Deduct	-9.83		
33 42 11 00-0099	LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	213.51		37.32
	For 100 PSI, Deduct	-40.05		
	For >1,000, Deduct	-10.68		
33 42 11 00-0100	LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	250.77		49.40
	For 100 PSI, Deduct	-44.84		
	For >1,000, Deduct	-12.54		
33 42 11 00-0101	LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	277.92		56.14
	For 100 PSI, Deduct	-49.64		
	For >1,000, Deduct	-13.90		
33 42 11 00-0102	LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	322.86		61.76
	For 100 PSI, Deduct	-58.88		
	For >1,000, Deduct	-16.14		
33 42 11 00-0103	LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	370.72		68.77
	For 100 PSI, Deduct	-68.12		
	For >1,000, Deduct	-18.54		
33 42 11 00-0104	LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	490.63		88.49
	For 100 PSI, Deduct	-91.06		
	For >1,000, Deduct	-24.53		
33 42 11 00-0105	LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	591.64		102.65
	For 100 PSI, Deduct	-111.25		
	For >1,000, Deduct	-29.58		
33 42 11 00-0106	LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	665.01		113.77
	For 100 PSI, Deduct	-125.80		
	For >1,000, Deduct	-33.25		
33 42 11 00-0107	LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	741.79		123.88
	For 100 PSI, Deduct	-141.20		
	For >1,000, Deduct	-37.09		
33 42 11 00-0108	LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	842.64		139.05
	For 100 PSI, Deduct	-160.89		
	For >1,000, Deduct	-42.13		
33 42 11 00-0109	LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	943.49		154.85
	For 100 PSI, Deduct	-180.57		
	For >1,000, Deduct	-47.17		
33 42 11 00-0110	LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,166.26		180.77
	For 100 PSI, Deduct	-226.78		
	For >1,000, Deduct	-58.31		
33 42 11 00-0111	LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,373.20		206.43
	For 100 PSI, Deduct	-269.57		
	For >1,000, Deduct	-68.66		
33 42 11 00-0112	LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,602.85		223.44
	For 100 PSI, Deduct	-320.92		
	For >1,000, Deduct	-80.14		
33 42 11 00-0113	LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,810.88		237.26
	For 100 PSI, Deduct	-367.98		
	For >1,000, Deduct	-90.54		
33 42 11 00-0114	LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,190.08		251.10
	For 100 PSI, Deduct	-457.84		
	For >1,000, Deduct	-109.50		
33 42 11 00-0115	LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,550.48		263.77
	For 100 PSI, Deduct	-543.42		
	For >1,000, Deduct	-127.52		
33 42 11 00-0116	LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,780.81		276.44
	For 100 PSI, Deduct	-596.48		
	For >1,000, Deduct	-139.04		
33 42 11 00-0117	LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	3,014.56		289.10
	For 100 PSI, Deduct	-650.39		
	For >1,000, Deduct	-150.73		
33 42 11 00-0118	LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	3,246.61		301.77
	For 100 PSI, Deduct	-703.88		
	For >1,000, Deduct	-162.33		
33 42 11 00-0119	LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	3,478.64		314.44
	For 100 PSI, Deduct	-757.36		
	For >1,000, Deduct	-173.93		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0120		150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets ⁽³³⁾	
		42 11 00-0093	
33 42 11 00-0121	EA	12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	503.85 164.64
33 42 11 00-0122	EA	15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	696.32 235.19
33 42 11 00-0123	EA	18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	894.19 313.59
33 42 11 00-0124	EA	21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,092.07 392.00
33 42 11 00-0125	EA	24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,324.43 487.12
33 42 11 00-0126	EA	30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,698.08 653.33
33 42 11 00-0127	EA	36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,119.26 785.94
33 42 11 00-0128	EA	42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,467.87 917.30
33 42 11 00-0129	EA	48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,777.04 1,047.54
33 42 11 00-0130	EA	54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,414.49 1,308.02
33 42 11 00-0131	EA	60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,455.09 1,769.75
33 42 11 00-0132	EA	66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,964.29 1,959.38
33 42 11 00-0133	EA	72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,473.49 2,148.99
33 42 11 00-0134	EA	78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,620.95 2,465.02
33 42 11 00-0135	EA	84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,761.42 2,781.05
33 42 11 00-0136	EA	90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,201.21 3,160.27
33 42 11 00-0137	EA	96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	10,634.01 3,539.51
33 42 11 00-0138	EA	102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,220.72 4,492.01
33 42 11 00-0139	EA	108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	17,742.55 5,390.41
33 42 11 00-0140	EA	114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,039.93 7,187.22
33 42 11 00-0141	EA	120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,252.27 8,984.02
33 42 11 00-0142	EA	126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	31,928.95 9,689.91
33 42 11 00-0143	EA	132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	35,610.38 10,395.80
33 42 11 00-0144	EA	138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	46,720.99 11,101.69
33 42 11 00-0145	EA	144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	43,049.34 11,807.57

33 42 11 00-0146		150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets ⁽³³⁾	
		42 11 00-0093	
33 42 11 00-0147	EA	12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	468.93 164.64
33 42 11 00-0148	EA	15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	651.14 235.19
33 42 11 00-0149	EA	18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	840.79 313.59
33 42 11 00-0150	EA	21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,030.45 392.00
33 42 11 00-0151	EA	24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,254.59 487.12
33 42 11 00-0152	EA	30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,602.24 609.42
33 42 11 00-0153	EA	36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,009.72 785.94
33 42 11 00-0154	EA	42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,341.22 917.30
33 42 11 00-0155	EA	48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,640.80 1,047.54
33 42 11 00-0156	EA	54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,221.11 1,308.02
33 42 11 00-0157	EA	60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,270.68 1,769.75
33 42 11 00-0158	EA	66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,766.52 1,959.38
33 42 11 00-0159	EA	72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,262.36 2,148.99
33 42 11 00-0160	EA	78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,128.13 2,465.02
33 42 11 00-0161	EA	84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,986.91 2,781.05
33 42 11 00-0162	EA	90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,223.78 3,160.27
33 42 11 00-0163	EA	96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,453.65 3,539.51
33 42 11 00-0164	EA	102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,346.75 4,424.39
33 42 11 00-0165	EA	108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	15,445.43 5,390.41
33 42 11 00-0166	EA	114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,183.93 7,187.22
33 42 11 00-0167	EA	120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	24,837.38 8,984.02
33 42 11 00-0168	EA	126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,762.18 9,689.91
33 42 11 00-0169	EA	132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	30,691.73 11,807.57
33 42 11 00-0170	EA	138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	33,632.81 11,101.69
33 42 11 00-0171	EA	144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	36,920.89 11,807.57

33 42 11 00-0172		400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints ^(33 42 11 00-0092)	
33 42 11 00-0173		400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints ^(33 42 11 00-0172)	
		Note: AWWA C301	
33 42 11 00-0174	LF	30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	295.79 49.40
		For >1,000, Deduct	
		-14.79	
33 42 11 00-0175	LF	36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	361.06 56.14
		For >1,000, Deduct	
		-18.05	
33 42 11 00-0176	LF	42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	421.56 61.76
		For >1,000, Deduct	
		-21.08	

33 42 11 00-0177		400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints ^(33 42 11 00-0172)	
		Note: AWWA C301	
33 42 11 00-0178	LF	48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	568.98 68.71
		For >1,000, Deduct	
		-28.45	
33 42 11 00-0179	LF	54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	680.92 88.49
		For >1,000, Deduct	
		-34.05	
33 42 11 00-0180	LF	60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	784.93 102.65
		For >1,000, Deduct	
		-39.25	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0181	LF		66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	883.87	113.77
			<i>For >1,000, Deduct</i>	-44.19	
33 42 11 00-0182	LF		72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	1,071.65	123.88
			<i>For >1,000, Deduct</i>	-53.58	
33 42 11 00-0183 Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0172)					
Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.					
33 42 11 00-0184	EA		30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,270.57	
33 42 11 00-0185	EA		36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,438.76	
33 42 11 00-0186	EA		42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,522.85	
33 42 11 00-0187	EA		48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,859.23	
33 42 11 00-0188	EA		54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,943.33	
33 42 11 00-0189	EA		60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,111.52	
33 42 11 00-0190	EA		66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,195.61	
33 42 11 00-0191	EA		72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,279.71	
33 42 11 00-0192	EA		30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,204.75	
33 42 11 00-0193	EA		36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,204.75	
33 42 11 00-0194	EA		42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,793.42	
33 42 11 00-0195	EA		48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,793.42	
33 42 11 00-0196	EA		54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,129.80	
33 42 11 00-0197	EA		60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,129.80	
33 42 11 00-0198	EA		66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,550.27	
33 42 11 00-0199	EA		72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,550.27	
33 42 11 00-0200 Quick Test Joints (33 42 11 00-0172)					
33 42 11 00-0201	EA		30" Quick Test Joint.....	636.95	
33 42 11 00-0202	EA		36" Quick Test Joint.....	642.56	
33 42 11 00-0203	EA		42" Quick Test Joint.....	648.18	
33 42 11 00-0204	EA		48" Quick Test Joint.....	661.33	
33 42 11 00-0205	EA		54" Quick Test Joint.....	691.11	
33 42 11 00-0206	EA		60" Quick Test Joint.....	716.30	
33 42 11 00-0207	EA		66" Quick Test Joint.....	754.04	
33 42 11 00-0208	EA		72" Quick Test Joint.....	791.79	
33 42 11 00-0209 Harnessed Joints (33 42 11 00-0172)					
33 42 11 00-0210 Harness Clamp Restrained Joints (33 42 11 00-0209)					
33 42 11 00-0211	EA		30" Harness Clamp Restrained Joint.....	12,501.63	
33 42 11 00-0212	EA		36" Harness Clamp Restrained Joint.....	12,984.61	
33 42 11 00-0213	EA		42" Harness Clamp Restrained Joint.....	13,467.61	
33 42 11 00-0214	EA		48" Harness Clamp Restrained Joint.....	13,950.60	
33 42 11 00-0215	EA		54" Harness Clamp Restrained Joint.....	14,447.73	
33 42 11 00-0216	EA		60" Harness Clamp Restrained Joint.....	15,176.43	
33 42 11 00-0217	EA		66" Harness Clamp Restrained Joint.....	15,666.45	
33 42 11 00-0218	EA		72" Harness Clamp Restrained Joint.....	16,777.07	
33 42 11 00-0219 Snap Ring Restrained Joints (33 42 11 00-0209)					
33 42 11 00-0220	EA		30" Snap Ring Restrained Joint.....	1,999.33	
33 42 11 00-0221	EA		36" Snap Ring Restrained Joint.....	2,291.37	
33 42 11 00-0222	EA		42" Snap Ring Restrained Joint.....	3,108.53	
33 42 11 00-0223	EA		48" Snap Ring Restrained Joint.....	3,543.78	
33 42 11 00-0224	EA		54" Snap Ring Restrained Joint.....	3,993.17	
33 42 11 00-0225	EA		60" Snap Ring Restrained Joint.....	4,530.92	
33 42 11 00-0226	EA		66" Snap Ring Restrained Joint.....	5,020.94	
33 42 11 00-0227	EA		72" Snap Ring Restrained Joint.....	5,606.44	
33 42 11 00-0228 Pipe Repairs (33 42 11 00-0172)					
Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.					
33 42 11 00-0229 Lined Cylinder Pipe Repair (33 42 11 00-0228)					
33 42 11 00-0230	EA		30" Lined Cylinder Pipe Repair.....	6,514.26	
33 42 11 00-0231	EA		36" Lined Cylinder Pipe Repair.....	8,068.36	
33 42 11 00-0232	EA		42" Lined Cylinder Pipe Repair.....	11,275.37	
33 42 11 00-0233 Embedded Cylinder Pipe Repair (33 42 11 00-0228)					
Note: Field welded concrete enclosure assembly with concrete pipe.					
33 42 11 00-0234	EA		48" Embedded Cylinder Pipe Repair.....	16,941.88	
33 42 11 00-0235	EA		54" Embedded Cylinder Pipe Repair.....	19,695.67	
33 42 11 00-0236	EA		60" Embedded Cylinder Pipe Repair.....	22,468.14	
33 42 11 00-0237	EA		66" Embedded Cylinder Pipe Repair.....	25,387.07	
33 42 11 00-0238	EA		72" Embedded Cylinder Pipe Repair.....	30,601.90	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0239	High-Density Polyethylene (HDPE) Drainage Piping (33 42 11)			
	Note: Includes detectable tracer wire.			
33 42 11 00-0240	Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0239)			
	Note: Excludes couplings and gaskets.			
33 42 11 00-0241	Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0240)			
33 42 11 00-0242	LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	16.44	7.24	
	For <100, Add	2.90		
	For >1,000, Deduct	-1.55		
33 42 11 00-0243	LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	21.81	8.42	
	For <100, Add	3.37		
	For >1,000, Deduct	-1.93		
33 42 11 00-0244	LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	27.04	9.78	
	For <100, Add	3.92		
	For >1,000, Deduct	-2.33		
33 42 11 00-0245	LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	31.03	10.13	
	For <100, Add	4.05		
	For >1,000, Deduct	-2.57		
33 42 11 00-0246	LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	32.66	10.49	
	For <100, Add	4.20		
	For >1,000, Deduct	-2.68		
33 42 11 00-0247	LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	37.39	10.86	
	For <100, Add	4.34		
	For >1,000, Deduct	-2.96		
33 42 11 00-0248	LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	45.88	11.26	
	For <100, Add	4.50		
	For >1,000, Deduct	-3.42		
33 42 11 00-0249	LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	63.59	13.19	
	For <100, Add	5.27		
	For >1,000, Deduct	-4.50		
33 42 11 00-0250	LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	90.49	17.75	
	For <100, Add	7.10		
	For >1,000, Deduct	-6.30		
33 42 11 00-0251	LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	119.22	22.44	
	For <100, Add	8.98		
	For >1,000, Deduct	-8.21		
33 42 11 00-0252	Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0240)			
33 42 11 00-0253	LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	32.46	10.49	
	For <100, Add	4.20		
	For >1,000, Deduct	-2.67		
33 42 11 00-0254	LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	38.22	10.86	
	For <100, Add	4.34		
	For >1,000, Deduct	-3.00		
33 42 11 00-0255	LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	47.12	11.26	
	For <100, Add	4.50		
	For >1,000, Deduct	-3.48		
33 42 11 00-0256	LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	65.55	13.19	
	For <100, Add	5.27		
	For >1,000, Deduct	-4.60		
33 42 11 00-0257	LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	95.85	17.75	
	For <100, Add	7.10		
	For >1,000, Deduct	-6.57		
33 42 11 00-0258	LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	123.20	22.44	
	For <100, Add	8.98		
	For >1,000, Deduct	-8.40		
33 42 11 00-0259	LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	162.02	24.48	
	For <100, Add	9.79		
	For >1,000, Deduct	-10.55		
33 42 11 00-0260	LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	176.41	27.61	
	For <100, Add	11.05		
	For >1,000, Deduct	-11.58		
33 42 11 00-0261	Perforated, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0239)			
	Note: Excludes couplings and gaskets.			
33 42 11 00-0262	Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0261)			
33 42 11 00-0263	LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	17.47	7.24	
	For <100, Add	2.90		
	For >1,000, Deduct	-1.60		
33 42 11 00-0264	LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	21.85	8.42	
	For <100, Add	3.37		
	For >1,000, Deduct	-1.93		
33 42 11 00-0265	LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe	27.04	9.78	
	For <100, Add	3.92		
	For >1,000, Deduct	-2.33		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 42 11 00-0266	LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	31.06		10.13
	For <100, Add	4.05		
	For >1,000, Deduct	-2.57		
33 42 11 00-0267	LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	32.66		10.49
	For <100, Add	4.20		
	For >1,000, Deduct	-2.68		
33 42 11 00-0268	LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	37.43		10.86
	For <100, Add	4.34		
	For >1,000, Deduct	-2.96		
33 42 11 00-0269	LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	45.91		11.26
	For <100, Add	4.50		
	For >1,000, Deduct	-3.42		
33 42 11 00-0270	LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	63.59		13.19
	For <100, Add	5.27		
	For >1,000, Deduct	-4.50		
33 42 11 00-0271	LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	90.83		17.75
	For <100, Add	7.10		
	For >1,000, Deduct	-6.32		
33 42 11 00-0272	LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	119.22		22.44
	For <100, Add	8.98		
	For >1,000, Deduct	-8.21		
33 42 11 00-0273 Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Piping (33 42 11 00-0261)				
33 42 11 00-0274	LF 12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	32.49		10.49
	For <100, Add	4.20		
	For >1,000, Deduct	-2.67		
33 42 11 00-0275	LF 15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	38.25		10.86
	For <100, Add	4.34		
	For >1,000, Deduct	-3.00		
33 42 11 00-0276	LF 18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	47.15		11.26
	For <100, Add	4.50		
	For >1,000, Deduct	-3.48		
33 42 11 00-0277	LF 24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	65.55		13.19
	For <100, Add	5.27		
	For >1,000, Deduct	-4.60		
33 42 11 00-0278	LF 30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	95.85		17.75
	For <100, Add	7.10		
	For >1,000, Deduct	-6.57		
33 42 11 00-0279	LF 36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	123.20		22.44
	For <100, Add	8.98		
	For >1,000, Deduct	-8.40		
33 42 11 00-0280	LF 42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	162.02		24.48
	For <100, Add	9.79		
	For >1,000, Deduct	-10.55		
33 42 11 00-0281	LF 48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe.....	176.41		27.61
	For <100, Add	11.05		
	For >1,000, Deduct	-11.58		
33 42 11 00-0282 Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0239)				
Note: Excludes couplings and gaskets.				
33 42 11 00-0283 Tees, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0282)				
33 42 11 00-0284	EA 4" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	62.42		25.64
33 42 11 00-0285	EA 6" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	77.68		29.92
33 42 11 00-0286	EA 8" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	121.56		36.34
33 42 11 00-0287	EA 10" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	182.04		44.88
33 42 11 00-0288	EA 12" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	281.61		53.43
33 42 11 00-0289	EA 15" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	395.67		69.82
33 42 11 00-0290	EA 18" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	566.97		94.02
33 42 11 00-0291	EA 24" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	722.24		107.33
33 42 11 00-0292	EA 30" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	1,241.73		123.95
33 42 11 00-0293	EA 36" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	1,589.61		143.19
33 42 11 00-0294	EA 42" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	2,624.60		170.97
33 42 11 00-0295	EA 48" Tee, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	3,290.58		203.03
33 42 11 00-0296 Wyes, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0282)				
33 42 11 00-0297	EA 4" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	87.62		25.64
33 42 11 00-0298	EA 6" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	105.34		29.92

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0299	EA	8" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	139.03	36.34
33 42 11 00-0300	EA	10" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	201.28	44.88
33 42 11 00-0301	EA	12" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	343.55	53.43
33 42 11 00-0302	EA	15" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	376.67	69.82
33 42 11 00-0303	EA	18" Wye, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	530.01	94.02
33 42 11 00-0304 22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0282)				
33 42 11 00-0305	EA	4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	38.44	17.10
33 42 11 00-0306	EA	6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	47.07	19.95
33 42 11 00-0307	EA	8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	67.06	24.22
33 42 11 00-0308	EA	10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	84.22	29.92
33 42 11 00-0309	EA	12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	119.63	35.62
33 42 11 00-0310	EA	15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	185.48	45.60
33 42 11 00-0311	EA	18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	246.57	62.69
33 42 11 00-0312	EA	24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	452.26	71.24
33 42 11 00-0313	EA	30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	623.03	82.64
33 42 11 00-0314	EA	36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	729.66	95.46
33 42 11 00-0315	EA	42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	929.84	113.98
33 42 11 00-0316	EA	48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	1,250.87	135.35
33 42 11 00-0317 45 Degree Bends, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE) (33 42 11 00-0282)				
33 42 11 00-0318	EA	4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	41.20	17.10
33 42 11 00-0319	EA	6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	52.82	19.95
33 42 11 00-0320	EA	8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	70.00	24.22
33 42 11 00-0321	EA	10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	108.08	29.92
33 42 11 00-0322	EA	12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	119.63	35.62
33 42 11 00-0323	EA	15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	185.01	45.60
33 42 11 00-0324	EA	18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	285.05	62.69
33 42 11 00-0325	EA	24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	481.99	71.24
33 42 11 00-0326	EA	30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	624.45	82.64
33 42 11 00-0327	EA	36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	793.74	95.46
33 42 11 00-0328	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	1,177.14	113.98
33 42 11 00-0329	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High-Density Polyethylene (HDPE).....	1,472.52	135.35
33 42 11 00-0330 Couplings And End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0239)				
Note: For single and double wall high-density polyethylene (HDPE) piping.				
33 42 11 00-0331 Couplings, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0330)				
33 42 11 00-0332	EA	4" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	1.64	
33 42 11 00-0333	EA	6" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	2.95	
33 42 11 00-0334	EA	8" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	4.54	
33 42 11 00-0335	EA	10" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	5.59	
33 42 11 00-0336	EA	12" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	6.01	
33 42 11 00-0337	EA	15" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	8.55	
33 42 11 00-0338	EA	18" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	12.66	
33 42 11 00-0339	EA	24" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	20.15	
33 42 11 00-0340	EA	30" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	30.93	
33 42 11 00-0341	EA	36" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	40.48	
33 42 11 00-0342	EA	42" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	63.63	
33 42 11 00-0343	EA	48" Coupling, Corrugated High-Density Polyethylene (HDPE) Pipe	86.06	
33 42 11 00-0344 Self-Adhering Gaskets, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0330)				
33 42 11 00-0345	EA	4" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	87.14	
33 42 11 00-0346	EA	6" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	91.24	
33 42 11 00-0347	EA	8" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	95.53	
33 42 11 00-0348	EA	10" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	100.02	
33 42 11 00-0349	EA	12" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	118.63	
33 42 11 00-0350	EA	15" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	122.49	
33 42 11 00-0351	EA	18" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	127.75	
33 42 11 00-0352	EA	24" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	145.52	
33 42 11 00-0353	EA	30" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	233.27	
33 42 11 00-0354	EA	36" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	255.51	
33 42 11 00-0355	EA	42" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	278.40	
33 42 11 00-0356	EA	48" Self-Adhering Gasket, Corrugated High-Density Polyethylene (HDPE) Pipe	338.12	
33 42 11 00-0357 End Caps, Corrugated High-Density Polyethylene (HDPE) Pipe (33 42 11 00-0330)				
33 42 11 00-0358	EA	6" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	35.06	
33 42 11 00-0359	EA	8" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	41.11	
33 42 11 00-0360	EA	10" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	66.28	
33 42 11 00-0361	EA	12" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	112.37	
33 42 11 00-0362	EA	15" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe	130.67	



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0363	EA	18" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe		176.46	
33 42 11 00-0364	EA	24" End Cap For Corrugated High-Density Polyethylene (HDPE) Pipe		182.93	
33 42 11 00-0365		Vitrified Clay Piping (33 42 11)			
33 42 11 00-0366		Extra Strength Vitrified Clay Piping (33 42 11 00-0365)			
33 42 11 00-0367		Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0366)			
Note: ASTM C700.					
33 42 11 00-0368	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe		22.92	
		For 3' Lengths, Add		2.02	
		For 2' Lengths, Add		2.69	
		For Standard Strength, Deduct		-0.67	
		For >1,000, Deduct		-1.15	
33 42 11 00-0369	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe		38.03	
		For 3' Lengths, Add		3.14	
		For 2' Lengths, Add		4.18	
		For Standard Strength, Deduct		-1.05	
		For >1,000, Deduct		-1.90	
33 42 11 00-0370	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe		45.59	
		For 3' Lengths, Add		4.48	
		For 2' Lengths, Add		5.98	
		For Standard Strength, Deduct		-1.49	
		For >1,000, Deduct		-2.28	
33 42 11 00-0371	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe		54.89	
		For 3' Lengths, Add		6.86	
		For 2' Lengths, Add		9.15	
		For Standard Strength, Deduct		-2.29	
		For >1,000, Deduct		-2.74	
33 42 11 00-0372	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe		67.23	
		For 3' Lengths, Add		9.69	
		For 2' Lengths, Add		12.92	
		For Standard Strength, Deduct		-3.23	
		For >1,000, Deduct		-3.36	
33 42 11 00-0373	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe		99.42	
		For 3' Lengths, Add		18.17	
		For 2' Lengths, Add		24.22	
		For Standard Strength, Deduct		-6.06	
		For >1,000, Deduct		-4.97	
33 42 11 00-0374	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe		135.26	
		For 3' Lengths, Add		26.04	
		For 2' Lengths, Add		34.72	
		For Standard Strength, Deduct		-8.68	
		For >1,000, Deduct		-6.76	
33 42 11 00-0375	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe		200.18	
		For 3' Lengths, Add		41.72	
		For 2' Lengths, Add		55.62	
		For Standard Strength, Deduct		-13.91	
		For >1,000, Deduct		-10.01	
33 42 11 00-0376	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe		255.89	
		For 3' Lengths, Add		54.50	
		For 2' Lengths, Add		72.67	
		For Standard Strength, Deduct		-18.17	
		For >1,000, Deduct		-12.79	
33 42 11 00-0377	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe		316.65	
		For 3' Lengths, Add		67.96	
		For 2' Lengths, Add		90.61	
		For Standard Strength, Deduct		-22.65	
		For >1,000, Deduct		-15.83	
33 42 11 00-0378	LF	36" Plain Joint, Extra Strength, Vitrified Clay Pipe		383.07	
		For 3' Lengths, Add		82.09	
		For 2' Lengths, Add		109.45	
		For Standard Strength, Deduct		-27.36	
		For >1,000, Deduct		-19.15	
33 42 11 00-0379		Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0366)			
Note: ASTM C425.					
33 42 11 00-0380	LF	4" Compression Joint, Extra Strength, Vitrified Clay Pipe		32.46	
		For 3' Lengths, Add		2.38	
		For 2' Lengths, Add		3.18	
		For Standard Strength, Deduct		-0.79	
		For >1,000, Deduct		-1.62	
33 42 11 00-0381	LF	6" Compression Joint, Extra Strength, Vitrified Clay Pipe		40.54	
		For 3' Lengths, Add		3.89	
		For 2' Lengths, Add		5.18	
		For Standard Strength, Deduct		-1.30	
		For >1,000, Deduct		-2.03	
33 42 11 00-0382	LF	8" Compression Joint, Extra Strength, Vitrified Clay Pipe		48.95	
		For 3' Lengths, Add		5.49	
		For 2' Lengths, Add		7.32	
		For Standard Strength, Deduct		-1.83	
		For >1,000, Deduct		-2.45	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0383 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	62.06	
For 3' Lengths, Add	9.02	
For 2' Lengths, Add	12.02	
For Standard Strength, Deduct	-3.01	
For >1,000, Deduct	-3.10	
33 42 11 00-0384 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	74.40	
For 3' Lengths, Add	11.84	
For 2' Lengths, Add	15.79	
For Standard Strength, Deduct	-3.95	
For >1,000, Deduct	-3.72	
33 42 11 00-0385 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	110.86	
For 3' Lengths, Add	21.60	
For 2' Lengths, Add	28.80	
For Standard Strength, Deduct	-7.20	
For >1,000, Deduct	-5.54	
33 42 11 00-0386 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	153.87	
For 3' Lengths, Add	31.62	
For 2' Lengths, Add	42.16	
For Standard Strength, Deduct	-10.54	
For >1,000, Deduct	-7.69	
33 42 11 00-0387 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	221.49	
For 3' Lengths, Add	48.11	
For 2' Lengths, Add	64.15	
For Standard Strength, Deduct	-16.04	
For >1,000, Deduct	-11.07	
33 42 11 00-0388 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	289.54	
For 3' Lengths, Add	64.60	
For 2' Lengths, Add	86.13	
For Standard Strength, Deduct	-21.53	
For >1,000, Deduct	-14.48	
33 42 11 00-0389 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	464.68	
For 3' Lengths, Add	112.37	
For 2' Lengths, Add	149.82	
For Standard Strength, Deduct	-37.46	
For >1,000, Deduct	-23.23	
33 42 11 00-0390 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	661.19	
For 3' Lengths, Add	165.53	
For 2' Lengths, Add	220.70	
For Standard Strength, Deduct	-55.18	
For >1,000, Deduct	-33.06	
33 42 11 00-0391 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0385)		
33 42 11 00-0392 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0393 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0392)		
33 42 11 00-0394 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	96.58	
33 42 11 00-0395 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	130.67	
33 42 11 00-0396 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	187.31	
33 42 11 00-0397 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	258.31	
33 42 11 00-0398 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	341.78	
33 42 11 00-0399 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	819.94	
33 42 11 00-0400 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,156.99	
33 42 11 00-0401 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,806.41	
33 42 11 00-0402 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,084.56	
33 42 11 00-0403 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,420.13	
33 42 11 00-0404 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,633.65	
33 42 11 00-0405 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0392)		
33 42 11 00-0406 EA 4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	109.05	
33 42 11 00-0407 EA 6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	155.53	
33 42 11 00-0408 EA 8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	211.16	
33 42 11 00-0409 EA 10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	283.90	
33 42 11 00-0410 EA 12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	360.79	
33 42 11 00-0411 EA 15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	919.57	
33 42 11 00-0412 EA 18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,338.56	
33 42 11 00-0413 EA 21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,375.02	
33 42 11 00-0414 EA 24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,670.02	
33 42 11 00-0415 EA 30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,972.62	
33 42 11 00-0416 EA 36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	4,417.86	
33 42 11 00-0417 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0418 Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0417)		
33 42 11 00-0419 EA 4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	112.76	
33 42 11 00-0420 EA 6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	150.17	
33 42 11 00-0421 EA 8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	210.12	
33 42 11 00-0422 EA 10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	283.11	
33 42 11 00-0423 EA 12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	369.72	
33 42 11 00-0424 EA 15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	851.03	
33 42 11 00-0425 EA 18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,195.76	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0426	EA		21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	1,855.30	
33 42 11 00-0427	EA		24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,143.93	
33 42 11 00-0428	EA		30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	2,494.18	
33 42 11 00-0429	EA		36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay	3,715.96	
33 42 11 00-0430			Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0417)		
33 42 11 00-0431	EA		4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	128.47	
33 42 11 00-0432	EA		6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	178.93	
33 42 11 00-0433	EA		8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	238.53	
33 42 11 00-0434	EA		10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	313.65	
33 42 11 00-0435	EA		12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	394.31	
33 42 11 00-0436	EA		15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	956.86	
33 42 11 00-0437	EA		18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	1,385.08	
33 42 11 00-0438	EA		21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,690.98	
33 42 11 00-0439	EA		24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	2,741.27	
33 42 11 00-0440	EA		30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	3,061.47	
33 42 11 00-0441	EA		36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay	4,516.64	
33 42 11 00-0442			Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0391)		
33 42 11 00-0443			Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0442)		
33 42 11 00-0444	EA		4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	123.61	
33 42 11 00-0445	EA		6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	161.61	
33 42 11 00-0446	EA		8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	220.18	
33 42 11 00-0447	EA		10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	292.08	
33 42 11 00-0448	EA		12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	369.73	
33 42 11 00-0449	EA		15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	858.74	
33 42 11 00-0450	EA		18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,202.37	
33 42 11 00-0451	EA		21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	1,738.23	
33 42 11 00-0452	EA		24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,420.10	
33 42 11 00-0453	EA		30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	2,559.78	
33 42 11 00-0454	EA		36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay	3,684.85	
33 42 11 00-0455			Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0442)		
33 42 11 00-0456	EA		4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	151.07	
33 42 11 00-0457	EA		6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	207.65	
33 42 11 00-0458	EA		8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	273.94	
33 42 11 00-0459	EA		10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	355.58	
33 42 11 00-0460	EA		12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	444.10	
33 42 11 00-0461	EA		15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,044.64	
33 42 11 00-0462	EA		18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	1,506.54	
33 42 11 00-0463	EA		21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,238.07	
33 42 11 00-0464	EA		24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	2,966.04	
33 42 11 00-0465	EA		30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay	3,430.04	
33 42 11 00-0466	EA		36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee	4,873.00	
33 42 11 00-0467			Vitrified Clay Couplings (33 42 11 00-0365)		
33 42 11 00-0468			Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0467)		
			Note: Stainless steel tightening band at each end (Fernco #1002)		
33 42 11 00-0469	EA		4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	38.58	
33 42 11 00-0470	EA		4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	38.24	
33 42 11 00-0471	EA		5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	51.87	
33 42 11 00-0472	EA		5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	49.09	
33 42 11 00-0473	EA		6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	62.97	
33 42 11 00-0474	EA		6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	65.38	
33 42 11 00-0475	EA		6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	60.06	
33 42 11 00-0476	EA		8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	85.49	
33 42 11 00-0477	EA		8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	79.40	
33 42 11 00-0478	EA		10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	110.91	
33 42 11 00-0479	EA		10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	101.50	
33 42 11 00-0480	EA		12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	137.07	
33 42 11 00-0481	EA		12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	115.47	
33 42 11 00-0482	EA		15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	228.72	
33 42 11 00-0483	EA		15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	177.22	
33 42 11 00-0484			Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0467)		
			Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0485	EA		4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	77.22	
33 42 11 00-0486	EA		6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	102.72	
33 42 11 00-0487	EA		6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	108.57	
33 42 11 00-0488	EA		8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	113.82	
33 42 11 00-0489	EA		10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	140.36	
33 42 11 00-0490	EA		12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	162.77	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0491	Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0467)			
	Note: Stainless steel tightening band at each end. (NDS Non-shear)			
33 42 11 00-0492	EA	4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	79.18	
33 42 11 00-0493	EA	6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	104.68	
33 42 11 00-0494	EA	6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	95.96	
33 42 11 00-0495	EA	8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	125.55	
33 42 11 00-0496	EA	10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	181.41	
33 42 11 00-0497	EA	12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	204.93	
33 42 11 00-0498	Corrugated Metal Piping (33 42 11)			
33 42 11 00-0499	Galvanized Corrugated Steel Piping (33 42 11 00-0498)			
33 42 11 00-0500	2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)			
33 42 11 00-0501	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0500)			
33 42 11 00-0502	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	42.62	10.97
		For Bituminous Coated Pipe, Add	4.79	
		For Bituminous Coated And 25% Paved, Add	9.81	
		For Smooth-Flo, Add	17.51	
33 42 11 00-0503	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	48.55	11.50
		For Bituminous Coated Pipe, Add	6.04	
		For Bituminous Coated And 25% Paved, Add	12.35	
		For Smooth-Flo, Add	22.05	
33 42 11 00-0504	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	54.68	12.55
		For Bituminous Coated Pipe, Add	7.31	
		For Bituminous Coated And 25% Paved, Add	14.95	
		For Smooth-Flo, Add	26.71	
33 42 11 00-0505	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	62.55	13.59
		For Bituminous Coated Pipe, Add	8.75	
		For Bituminous Coated And 25% Paved, Add	17.89	
		For Smooth-Flo, Add	31.95	
33 42 11 00-0506	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	69.34	14.63
		For Bituminous Coated Pipe, Add	9.84	
		For Bituminous Coated And 25% Paved, Add	20.13	
		For Smooth-Flo, Add	35.95	
33 42 11 00-0507	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	91.35	18.82
		For Bituminous Coated Pipe, Add	12.77	
		For Bituminous Coated And 25% Paved, Add	26.12	
		For Smooth-Flo, Add	46.64	
33 42 11 00-0508	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	118.95	24.70
		For Bituminous Coated Pipe, Add	16.11	
		For Bituminous Coated And 25% Paved, Add	32.94	
		For Smooth-Flo, Add	58.83	
33 42 11 00-0509	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	135.90	29.20
		For Bituminous Coated Pipe, Add	19.06	
		For Bituminous Coated And 25% Paved, Add	38.98	
		For Smooth-Flo, Add	69.62	
33 42 11 00-0510	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	152.69	33.69
		For Bituminous Coated Pipe, Add	21.34	
		For Bituminous Coated And 25% Paved, Add	43.66	
		For Smooth-Flo, Add	77.97	
33 42 11 00-0511	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0500)			
33 42 11 00-0512	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	46.90	10.97
		For Bituminous Coated Pipe, Add	4.87	
		For Bituminous Coated And 25% Paved, Add	11.27	
		For Smooth-Flo, Add	22.79	
33 42 11 00-0513	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	53.82	11.50
		For Bituminous Coated Pipe, Add	6.10	
		For Bituminous Coated And 25% Paved, Add	14.14	
		For Smooth-Flo, Add	28.58	
33 42 11 00-0514	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	61.06	12.55
		For Bituminous Coated Pipe, Add	7.39	
		For Bituminous Coated And 25% Paved, Add	17.12	
		For Smooth-Flo, Add	34.61	
33 42 11 00-0515	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	69.91	13.59
		For Bituminous Coated Pipe, Add	8.79	
		For Bituminous Coated And 25% Paved, Add	20.36	
		For Smooth-Flo, Add	41.15	
33 42 11 00-0516	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	77.90	14.63
		For Bituminous Coated Pipe, Add	9.94	
		For Bituminous Coated And 25% Paved, Add	23.04	
		For Smooth-Flo, Add	46.57	
33 42 11 00-0517	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	101.81	18.82
		For Bituminous Coated Pipe, Add	12.77	
		For Bituminous Coated And 25% Paved, Add	29.59	
		For Smooth-Flo, Add	59.81	
33 42 11 00-0518	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	131.64	24.70
		For Bituminous Coated Pipe, Add	16.01	
		For Bituminous Coated And 25% Paved, Add	37.08	
		For Smooth-Flo, Add	74.96	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0519	LF	42"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	150.43 18.84 43.66 88.24	29.20
33 42 11 00-0520	LF	48"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	169.32 21.18 49.06 99.17	33.69
33 42 11 00-0521	LF	54"	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	202.89 26.04 60.33 121.96	38.17
33 42 11 00-0522			12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾ 42 11 00-0500)		
33 42 11 00-0523	LF	18"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	74.25 8.46 15.28 29.37	12.55
33 42 11 00-0524	LF	21"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	85.25 10.00 18.06 34.72	13.59
33 42 11 00-0525	LF	24"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	95.37 11.34 20.48 39.35	13.59
33 42 11 00-0526	LF	30"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	123.41 14.42 26.04 50.04	18.82
33 42 11 00-0527	LF	36"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	157.28 17.83 32.20 61.88	24.70
33 42 11 00-0528	LF	42"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	180.05 20.89 37.73 72.51	29.20
33 42 11 00-0529	LF	48"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	203.27 23.59 42.61 81.88	33.69
33 42 11 00-0530	LF	54"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	240.37 28.29 51.08 98.18	38.17
33 42 11 00-0531	LF	60"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	262.84 30.98 55.94 107.52	40.42
33 42 11 00-0532	LF	66"	12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	318.58 37.71 68.11 130.89	49.40
33 42 11 00-0533			10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping⁽³³⁾ 42 11 00-0500)		
33 42 11 00-0534	LF	36"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	181.27 22.68 37.89 54.06	24.70
33 42 11 00-0535	LF	42"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	208.12 26.57 44.39 63.33	29.20
33 42 11 00-0536	LF	48"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	235.12 30.03 50.17 71.58	33.69
33 42 11 00-0537	LF	54"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	276.06 35.57 59.41 84.78	38.17
33 42 11 00-0538	LF	60"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	302.56 39.06 65.25 93.11	40.42
33 42 11 00-0539	LF	66"	10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	362.24 46.73 78.06 111.38	49.40

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
33 42 11 00-0540	LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....		427.97		71.86
	For Bituminous Coated Pipe, Add		50.17		
	For Bituminous Coated And 25% Paved, Add		83.81		
	For Smooth-Flo, Add		119.59		
33 42 11 00-0541	3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)				
33 42 11 00-0542	16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)				
33 42 11 00-0543	LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		140.95		24.70
	For Bituminous Coated Pipe, Add		17.71		
	For Bituminous Coated And 25% Paved, Add		40.20		
	For Smooth-Flo, Add		80.05		
33 42 11 00-0544	LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		161.13		29.20
	For Bituminous Coated Pipe, Add		20.80		
	For Bituminous Coated And 25% Paved, Add		47.21		
	For Smooth-Flo, Add		94.00		
33 42 11 00-0545	LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		181.12		33.69
	For Bituminous Coated Pipe, Add		23.33		
	For Bituminous Coated And 25% Paved, Add		52.95		
	For Smooth-Flo, Add		105.43		
33 42 11 00-0546	LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		216.43		38.17
	For Bituminous Coated Pipe, Add		28.49		
	For Bituminous Coated And 25% Paved, Add		64.68		
	For Smooth-Flo, Add		128.78		
33 42 11 00-0547	LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		235.81		40.42
	For Bituminous Coated Pipe, Add		31.04		
	For Bituminous Coated And 25% Paved, Add		70.46		
	For Smooth-Flo, Add		140.30		
33 42 11 00-0548	LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		296.08		49.40
	For Bituminous Coated Pipe, Add		39.87		
	For Bituminous Coated And 25% Paved, Add		90.50		
	For Smooth-Flo, Add		180.21		
33 42 11 00-0549	LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		355.39		71.86
	For Bituminous Coated Pipe, Add		42.50		
	For Bituminous Coated And 25% Paved, Add		96.47		
	For Smooth-Flo, Add		192.09		
33 42 11 00-0550	LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		382.87		78.59
	For Bituminous Coated Pipe, Add		45.14		
	For Bituminous Coated And 25% Paved, Add		102.46		
	For Smooth-Flo, Add		204.01		
33 42 11 00-0551	LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		407.30		84.20
	For Bituminous Coated Pipe, Add		47.78		
	For Bituminous Coated And 25% Paved, Add		108.45		
	For Smooth-Flo, Add		215.95		
33 42 11 00-0552	LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		431.77		89.82
	For Bituminous Coated Pipe, Add		50.42		
	For Bituminous Coated And 25% Paved, Add		114.46		
	For Smooth-Flo, Add		227.92		
33 42 11 00-0553	LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		456.96		95.43
	For Bituminous Coated Pipe, Add		53.05		
	For Bituminous Coated And 25% Paved, Add		120.43		
	For Smooth-Flo, Add		239.80		
33 42 11 00-0554	LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		485.38		101.05
	For Bituminous Coated Pipe, Add		55.71		
	For Bituminous Coated And 25% Paved, Add		126.46		
	For Smooth-Flo, Add		251.81		
33 42 11 00-0555	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)				
33 42 11 00-0556	LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		238.88		38.17
	For Bituminous Coated Pipe, Add		32.98		
	For Bituminous Coated And 25% Paved, Add		64.64		
	For Smooth-Flo, Add		130.61		
33 42 11 00-0557	LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		260.65		40.42
	For Bituminous Coated Pipe, Add		36.01		
	For Bituminous Coated And 25% Paved, Add		70.58		
	For Smooth-Flo, Add		142.59		
33 42 11 00-0558	LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		323.41		49.40
	For Bituminous Coated Pipe, Add		45.34		
	For Bituminous Coated And 25% Paved, Add		88.86		
	For Smooth-Flo, Add		179.53		
33 42 11 00-0559	LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		385.16		71.86
	For Bituminous Coated Pipe, Add		48.45		
	For Bituminous Coated And 25% Paved, Add		94.97		
	For Smooth-Flo, Add		191.87		
33 42 11 00-0560	LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		415.03		78.59
	For Bituminous Coated Pipe, Add		51.57		
	For Bituminous Coated And 25% Paved, Add		101.07		
	For Smooth-Flo, Add		204.21		
33 42 11 00-0561	LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....		441.99		84.20
	For Bituminous Coated Pipe, Add		54.71		
	For Bituminous Coated And 25% Paved, Add		107.24		
	For Smooth-Flo, Add		216.67		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
33 42 11 00-0562	LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	468.80 57.83 113.35 229.01		89.82
33 42 11 00-0563	LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	496.43 60.95 119.45 241.35		95.43
33 42 11 00-0564	LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	527.24 64.08 125.60 253.76		101.05
33 42 11 00-0565	LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	560.64 67.22 131.75 266.18		112.27
33 42 11 00-0566	LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	593.30 70.29 137.78 278.36		123.50
33 42 11 00-0567 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)				
33 42 11 00-0568	LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	315.75 47.03 89.59 146.02		40.42
33 42 11 00-0569	LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	384.44 57.54 109.62 178.67		49.40
33 42 11 00-0570	LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	451.51 61.72 117.58 191.65		71.86
33 42 11 00-0571	LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	486.76 65.91 125.57 204.66		78.59
33 42 11 00-0572	LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	519.04 70.12 133.59 217.74		84.20
33 42 11 00-0573	LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	551.23 74.32 141.57 230.75		89.82
33 42 11 00-0574	LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	584.28 78.52 149.57 243.79		95.43
33 42 11 00-0575	LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	620.47 82.73 157.60 256.87		101.05
33 42 11 00-0576	LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	659.14 86.92 165.58 269.88		112.27
33 42 11 00-0577	LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	697.23 91.08 173.51 282.80		123.50
33 42 11 00-0578	LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	734.15 95.29 181.53 295.88		134.73
33 42 11 00-0579 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0541)				
33 42 11 00-0580	LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	513.38 74.10 140.78 188.20		71.86
33 42 11 00-0581	LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	553.71 79.30 150.68 201.43		78.59
33 42 11 00-0582	LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	591.07 84.53 160.61 214.71		84.20

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0583 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	628.33	89.82
For Bituminous Coated Pipe, Add	89.74	
For Bituminous Coated And 25% Paved, Add	170.50	
For Smooth-Flo, Add	227.93	
33 42 11 00-0584 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	666.46	95.43
For Bituminous Coated Pipe, Add	94.95	
For Bituminous Coated And 25% Paved, Add	180.41	
For Smooth-Flo, Add	241.18	
33 42 11 00-0585 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	707.73	101.05
For Bituminous Coated Pipe, Add	100.18	
For Bituminous Coated And 25% Paved, Add	190.34	
For Smooth-Flo, Add	254.46	
33 42 11 00-0586 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	751.48	112.27
For Bituminous Coated Pipe, Add	105.39	
For Bituminous Coated And 25% Paved, Add	200.23	
For Smooth-Flo, Add	267.68	
33 42 11 00-0587 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	794.59	123.50
For Bituminous Coated Pipe, Add	110.55	
For Bituminous Coated And 25% Paved, Add	210.05	
For Smooth-Flo, Add	280.80	
33 42 11 00-0588 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	836.63	134.73
For Bituminous Coated Pipe, Add	115.79	
For Bituminous Coated And 25% Paved, Add	220.00	
For Smooth-Flo, Add	294.10	
33 42 11 00-0589 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	880.65	145.96
For Bituminous Coated Pipe, Add	120.98	
For Bituminous Coated And 25% Paved, Add	229.85	
For Smooth-Flo, Add	307.28	
33 42 11 00-0590 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	927.59	157.19
For Bituminous Coated Pipe, Add	126.20	
For Bituminous Coated And 25% Paved, Add	239.78	
For Smooth-Flo, Add	320.55	
33 42 11 00-0591 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	977.99	168.42
For Bituminous Coated Pipe, Add	131.44	
For Bituminous Coated And 25% Paved, Add	249.73	
For Smooth-Flo, Add	333.85	
33 42 11 00-0592 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0593 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0592)		
33 42 11 00-0594 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	181.76	33.69
For Bituminous Coated Pipe, Add	29.32	
For Bituminous Coated And 25% Paved, Add	66.84	
For Smooth-Flo, Add	106.13	
33 42 11 00-0595 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	217.67	38.17
For Bituminous Coated Pipe, Add	35.93	
For Bituminous Coated And 25% Paved, Add	81.91	
For Smooth-Flo, Add	130.05	
33 42 11 00-0596 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	236.91	40.42
For Bituminous Coated Pipe, Add	39.08	
For Bituminous Coated And 25% Paved, Add	89.09	
For Smooth-Flo, Add	141.45	
33 42 11 00-0597 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	293.49	49.40
For Bituminous Coated Pipe, Add	49.19	
For Bituminous Coated And 25% Paved, Add	112.15	
For Smooth-Flo, Add	178.07	
33 42 11 00-0598 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	352.51	71.86
For Bituminous Coated Pipe, Add	52.40	
For Bituminous Coated And 25% Paved, Add	119.48	
For Smooth-Flo, Add	189.70	
33 42 11 00-0599 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	379.59	78.59
For Bituminous Coated Pipe, Add	55.60	
For Bituminous Coated And 25% Paved, Add	126.77	
For Smooth-Flo, Add	201.27	
33 42 11 00-0600 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	403.56	84.20
For Bituminous Coated Pipe, Add	58.79	
For Bituminous Coated And 25% Paved, Add	134.03	
For Smooth-Flo, Add	212.80	
33 42 11 00-0601 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	427.48	89.82
For Bituminous Coated Pipe, Add	61.96	
For Bituminous Coated And 25% Paved, Add	141.26	
For Smooth-Flo, Add	224.29	
33 42 11 00-0602 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	452.43	95.43
For Bituminous Coated Pipe, Add	65.18	
For Bituminous Coated And 25% Paved, Add	148.62	
For Smooth-Flo, Add	235.96	
33 42 11 00-0603 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	480.75	101.05
For Bituminous Coated Pipe, Add	68.48	
For Bituminous Coated And 25% Paved, Add	156.13	
For Smooth-Flo, Add	247.90	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 42 11 00-0604	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel			
	Piping (33 42 11 00-0592)			
33 42 11 00-0605	LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	245.75		38.17
	For Bituminous Coated Pipe, Add	34.36		
	For Bituminous Coated And 25% Paved, Add	80.74		
	For Smooth-Flo, Add	146.18		
33 42 11 00-0606	LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	268.12		40.42
	For Bituminous Coated Pipe, Add	37.50		
	For Bituminous Coated And 25% Paved, Add	88.13		
	For Smooth-Flo, Add	159.57		
33 42 11 00-0607	LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	327.54		49.40
	For Bituminous Coated Pipe, Add	46.16		
	For Bituminous Coated And 25% Paved, Add	108.48		
	For Smooth-Flo, Add	196.42		
33 42 11 00-0608	LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	389.29		71.86
	For Bituminous Coated Pipe, Add	49.28		
	For Bituminous Coated And 25% Paved, Add	115.80		
	For Smooth-Flo, Add	209.68		
33 42 11 00-0609	LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	419.71		78.59
	For Bituminous Coated Pipe, Add	52.50		
	For Bituminous Coated And 25% Paved, Add	123.38		
	For Smooth-Flo, Add	223.40		
33 42 11 00-0610	LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	446.82		84.20
	For Bituminous Coated Pipe, Add	55.68		
	For Bituminous Coated And 25% Paved, Add	130.85		
	For Smooth-Flo, Add	236.92		
33 42 11 00-0611	LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	472.28		89.82
	For Bituminous Coated Pipe, Add	58.53		
	For Bituminous Coated And 25% Paved, Add	137.54		
	For Smooth-Flo, Add	249.03		
33 42 11 00-0612	LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	501.75		95.43
	For Bituminous Coated Pipe, Add	62.01		
	For Bituminous Coated And 25% Paved, Add	145.72		
	For Smooth-Flo, Add	263.85		
33 42 11 00-0613	LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	532.71		101.05
	For Bituminous Coated Pipe, Add	65.18		
	For Bituminous Coated And 25% Paved, Add	153.16		
	For Smooth-Flo, Add	277.32		
33 42 11 00-0614	LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	566.11		112.27
	For Bituminous Coated Pipe, Add	68.31		
	For Bituminous Coated And 25% Paved, Add	160.53		
	For Smooth-Flo, Add	290.67		
33 42 11 00-0615	LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	599.47		123.50
	For Bituminous Coated Pipe, Add	71.53		
	For Bituminous Coated And 25% Paved, Add	168.09		
	For Smooth-Flo, Add	304.35		
33 42 11 00-0616	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel			
	Piping (33 42 11 00-0592)			
33 42 11 00-0617	LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	326.55		40.42
	For Bituminous Coated Pipe, Add	49.19		
	For Bituminous Coated And 25% Paved, Add	93.46		
	For Smooth-Flo, Add	168.71		
33 42 11 00-0618	LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	391.90		49.40
	For Bituminous Coated Pipe, Add	59.03		
	For Bituminous Coated And 25% Paved, Add	112.16		
	For Smooth-Flo, Add	202.49		
33 42 11 00-0619	LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	459.77		71.86
	For Bituminous Coated Pipe, Add	63.37		
	For Bituminous Coated And 25% Paved, Add	120.41		
	For Smooth-Flo, Add	217.37		
33 42 11 00-0620	LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	495.62		78.59
	For Bituminous Coated Pipe, Add	67.69		
	For Bituminous Coated And 25% Paved, Add	128.60		
	For Smooth-Flo, Add	232.16		
33 42 11 00-0621	LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	528.20		84.20
	For Bituminous Coated Pipe, Add	71.96		
	For Bituminous Coated And 25% Paved, Add	136.72		
	For Smooth-Flo, Add	246.81		
33 42 11 00-0622	LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	561.08		89.82
	For Bituminous Coated Pipe, Add	76.29		
	For Bituminous Coated And 25% Paved, Add	144.94		
	For Smooth-Flo, Add	261.66		
33 42 11 00-0623	LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	594.64		95.43
	For Bituminous Coated Pipe, Add	80.59		
	For Bituminous Coated And 25% Paved, Add	153.12		
	For Smooth-Flo, Add	276.42		
33 42 11 00-0624	LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	631.22		101.05
	For Bituminous Coated Pipe, Add	84.88		
	For Bituminous Coated And 25% Paved, Add	161.27		
	For Smooth-Flo, Add	291.13		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0625 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	670.59	112.27
For Bituminous Coated Pipe, Add	89.21	
For Bituminous Coated And 25% Paved, Add	169.50	
For Smooth-Flo, Add	305.98	
33 42 11 00-0626 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	709.38	123.50
For Bituminous Coated Pipe, Add	93.51	
For Bituminous Coated And 25% Paved, Add	177.67	
For Smooth-Flo, Add	320.74	
33 42 11 00-0627 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	746.74	134.73
For Bituminous Coated Pipe, Add	97.81	
For Bituminous Coated And 25% Paved, Add	185.84	
For Smooth-Flo, Add	335.49	
33 42 11 00-0628 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0592)		
33 42 11 00-0629 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	527.27	71.86
For Bituminous Coated Pipe, Add	76.87	
For Bituminous Coated And 25% Paved, Add	146.06	
For Smooth-Flo, Add	229.47	
33 42 11 00-0630 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	569.39	78.59
For Bituminous Coated Pipe, Add	82.44	
For Bituminous Coated And 25% Paved, Add	156.64	
For Smooth-Flo, Add	246.08	
33 42 11 00-0631 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	607.84	84.20
For Bituminous Coated Pipe, Add	87.88	
For Bituminous Coated And 25% Paved, Add	166.98	
For Smooth-Flo, Add	262.33	
33 42 11 00-0632 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	646.05	89.82
For Bituminous Coated Pipe, Add	93.28	
For Bituminous Coated And 25% Paved, Add	177.23	
For Smooth-Flo, Add	278.44	
33 42 11 00-0633 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	685.38	95.43
For Bituminous Coated Pipe, Add	98.74	
For Bituminous Coated And 25% Paved, Add	187.60	
For Smooth-Flo, Add	294.73	
33 42 11 00-0634 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	727.54	101.05
For Bituminous Coated Pipe, Add	104.14	
For Bituminous Coated And 25% Paved, Add	197.87	
For Smooth-Flo, Add	310.86	
33 42 11 00-0635 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	772.48	112.27
For Bituminous Coated Pipe, Add	109.59	
For Bituminous Coated And 25% Paved, Add	208.21	
For Smooth-Flo, Add	327.11	
33 42 11 00-0636 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	816.94	123.50
For Bituminous Coated Pipe, Add	115.02	
For Bituminous Coated And 25% Paved, Add	218.54	
For Smooth-Flo, Add	343.34	
33 42 11 00-0637 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	859.83	134.73
For Bituminous Coated Pipe, Add	120.43	
For Bituminous Coated And 25% Paved, Add	228.81	
For Smooth-Flo, Add	359.48	
33 42 11 00-0638 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	913.60	145.96
For Bituminous Coated Pipe, Add	127.57	
For Bituminous Coated And 25% Paved, Add	242.38	
For Smooth-Flo, Add	380.78	
33 42 11 00-0639 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	963.83	157.19
For Bituminous Coated Pipe, Add	133.45	
For Bituminous Coated And 25% Paved, Add	253.56	
For Smooth-Flo, Add	398.35	
33 42 11 00-0640 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	1,018.61	168.42
For Bituminous Coated Pipe, Add	139.56	
For Bituminous Coated And 25% Paved, Add	265.17	
For Smooth-Flo, Add	416.59	
33 42 11 00-0641 Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0499)		
33 42 11 00-0642 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)		
33 42 11 00-0643 LF 18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	63.25	12.55
For Bituminous Coated Pipe, Add	9.04	
33 42 11 00-0644 LF 21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	72.60	13.59
For Bituminous Coated Pipe, Add	10.76	
33 42 11 00-0645 LF 24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	81.13	14.63
For Bituminous Coated Pipe, Add	12.22	
33 42 11 00-0646 LF 30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	106.19	18.82
For Bituminous Coated Pipe, Add	15.75	
33 42 11 00-0647 LF 36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	137.12	24.70
For Bituminous Coated Pipe, Add	19.74	
33 42 11 00-0648 LF 42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	157.05	29.20
For Bituminous Coated Pipe, Add	23.28	
33 42 11 00-0649 LF 48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	176.93	33.69
For Bituminous Coated Pipe, Add	26.20	
33 42 11 00-0650 LF 54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	211.70	38.17
For Bituminous Coated Pipe, Add	32.09	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 42 11 00-0651	LF 60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	230.98 35.04		40.42
33 42 11 00-0652	14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)			
33 42 11 00-0653	LF 18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	69.72 10.45		12.55
33 42 11 00-0654	LF 21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	80.17 12.42		13.59
33 42 11 00-0655	LF 24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	89.75 14.11		14.63
33 42 11 00-0656	LF 30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	116.89 18.09		18.82
33 42 11 00-0657	LF 36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	150.01 22.55		24.70
33 42 11 00-0658	LF 42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	172.13 26.56		29.20
33 42 11 00-0659	LF 48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	194.16 29.95		33.69
33 42 11 00-0660	LF 54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	231.06 36.29		38.17
33 42 11 00-0661	LF 60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	252.54 39.72		40.42
33 42 11 00-0662	LF 66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	310.32 49.34		49.40
33 42 11 00-0663	LF 72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	371.12 52.72		71.86
33 42 11 00-0664	LF 78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	400.30 56.16		78.59
33 42 11 00-0665	12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0641)			
33 42 11 00-0666	LF 30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	138.59 18.90		18.82
33 42 11 00-0667	LF 36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	175.94 23.35		24.70
33 42 11 00-0668	LF 42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	202.50 27.47		29.20
33 42 11 00-0669	LF 48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	228.80 31.05		33.69
33 42 11 00-0670	LF 54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	270.09 37.07		38.17
33 42 11 00-0671	LF 60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	295.94 40.70		40.42
33 42 11 00-0672	LF 66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	357.95 49.37		49.40
33 42 11 00-0673	LF 72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	423.04 52.95		71.86
33 42 11 00-0674	LF 78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	456.49 56.57		78.59
33 42 11 00-0675	LF 84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	486.79 60.17		84.20
33 42 11 00-0676	LF 90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	517.03 63.76		89.82
33 42 11 00-0677	LF 96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	548.10 67.36		95.43
33 42 11 00-0678	LF 102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	580.15 70.56		101.05
33 42 11 00-0679	1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0499)			
33 42 11 00-0680	1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0679)			
33 42 11 00-0681	LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	21.97 2.31		6.27
33 42 11 00-0682	LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	23.90 2.78		6.27
33 42 11 00-0683	LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	27.67 3.06		7.84
33 42 11 00-0684	LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	30.12 3.66		7.84
33 42 11 00-0685	LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	34.96 3.84		9.41
33 42 11 00-0686	LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	38.07 4.60		9.41
33 42 11 00-0687	Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0679)			
33 42 11 00-0688	LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	22.24 2.28		6.27
33 42 11 00-0689	LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe..... For Bituminous Coated Pipe, Add	24.11 2.72		6.27

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0690	LF	8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	27.94 2.99	7.84
33 42 11 00-0691	LF	8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	30.54 3.60	7.84
33 42 11 00-0692	LF	10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	35.43 3.79	9.41
33 42 11 00-0693	LF	10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	38.61 4.54	9.41
33 42 11 00-0694 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0679)				
33 42 11 00-0695	EA	6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	14.26 3.21	
33 42 11 00-0696	EA	8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	18.88 4.25	
33 42 11 00-0697	EA	10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	23.15 5.21	
33 42 11 00-0698	EA	6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	51.43 7.10	
33 42 11 00-0699	EA	6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	10.48 1.62	
33 42 11 00-0700	EA	8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe <i>For Bituminous Coated Pipe, Add</i>	13.44 2.43	
33 42 11 00-0701 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)				
33 42 11 00-0702 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)				
33 42 11 00-0703	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	70.92	10.97
33 42 11 00-0704	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	84.22	11.50
33 42 11 00-0705	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	97.94	12.55
33 42 11 00-0706	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	114.24	13.59
33 42 11 00-0707	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	127.58	14.63
33 42 11 00-0708	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	166.80	18.82
33 42 11 00-0709	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	214.23	24.70
33 42 11 00-0710	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	248.60	29.20
33 42 11 00-0711	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	278.96	33.69
33 42 11 00-0712 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)				
33 42 11 00-0713	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	81.34	10.97
33 42 11 00-0714	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	97.12	11.50
33 42 11 00-0715	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	113.39	12.55
33 42 11 00-0716	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	132.13	13.59
33 42 11 00-0717	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	148.37	14.63
33 42 11 00-0718	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	192.32	18.82
33 42 11 00-0719	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	245.03	24.70
33 42 11 00-0720	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	283.94	29.20
33 42 11 00-0721	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	319.30	33.69
33 42 11 00-0722	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	387.38	38.17
33 42 11 00-0723 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)				
33 42 11 00-0724	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	145.60	12.55
33 42 11 00-0725	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	169.74	13.59
33 42 11 00-0726	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	191.13	14.63
33 42 11 00-0727	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	245.74	18.82
33 42 11 00-0728	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	296.04	24.70
33 42 11 00-0729	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	358.67	29.20
33 42 11 00-0730	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	404.58	33.69
33 42 11 00-0731	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	484.68	38.17
33 42 11 00-0732	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	529.67	40.42
33 42 11 00-0733	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	649.07	49.40
33 42 11 00-0734 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0701)				
33 42 11 00-0735	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	367.69	24.70
33 42 11 00-0736	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	426.74	29.20
33 42 11 00-0737	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	481.90	33.69
33 42 11 00-0738	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	571.30	38.17
33 42 11 00-0739	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	626.10	40.42
33 42 11 00-0740	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	754.98	49.40
33 42 11 00-0741	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe	848.63	71.86
33 42 11 00-0742 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)				
33 42 11 00-0743 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)				
33 42 11 00-0744	LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe	273.37	24.70



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-0745	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	316.78		29.20
33 42 11 00-0746	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	355.41		33.69
33 42 11 00-0747	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	430.86		38.17
33 42 11 00-0748	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	469.12		40.42
33 42 11 00-0749	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	598.38		49.40
33 42 11 00-0750	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	677.21		71.86
33 42 11 00-0751	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	724.14		78.59
33 42 11 00-0752	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	768.11		84.20
33 42 11 00-0753	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	812.14		89.82
33 42 11 00-0754	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	856.82		95.43
33 42 11 00-0755	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	904.88		101.05
33 42 11 00-0756 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)					
33 42 11 00-0757	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	486.54		38.17
33 42 11 00-0758	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	530.68		40.42
33 42 11 00-0759	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	666.18		49.40
33 42 11 00-0760	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	750.95		71.86
33 42 11 00-0761	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	803.90		78.59
33 42 11 00-0762	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	854.13		84.20
33 42 11 00-0763	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	904.00		89.82
33 42 11 00-0764	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	954.66		95.43
33 42 11 00-0765	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,008.79		101.05
33 42 11 00-0766	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,065.35		112.27
33 42 11 00-0767	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,120.75		123.50
33 42 11 00-0768 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)					
33 42 11 00-0769	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	670.72		40.42
33 42 11 00-0770	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	821.97		49.40
33 42 11 00-0771	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	920.24		71.86
33 42 11 00-0772	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	986.77		78.59
33 42 11 00-0773	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,050.50		84.20
33 42 11 00-0774	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,113.97		89.82
33 42 11 00-0775	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,178.32		95.43
33 42 11 00-0776	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,245.93		101.05
33 42 11 00-0777	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,315.88		112.27
33 42 11 00-0778	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,385.06		123.50
33 42 11 00-0779	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,453.43		134.73
33 42 11 00-0780 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0742)					
33 42 11 00-0781	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,074.51		71.86
33 42 11 00-0782	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,153.60		78.59
33 42 11 00-0783	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,230.01		84.20
33 42 11 00-0784	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,306.08		89.82
33 42 11 00-0785	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,383.14		95.43
33 42 11 00-0786	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,463.40		101.05
33 42 11 00-0787	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,546.04		112.27
33 42 11 00-0788	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,627.80		123.50
33 42 11 00-0789	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,708.82		134.73
33 42 11 00-0790	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,791.59		145.96
33 42 11 00-0791	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,877.54		157.19
33 42 11 00-0792	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,966.96		168.42
33 42 11 00-0793 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0499)					
33 42 11 00-0794 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)					
33 42 11 00-0795	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	343.40		33.69
33 42 11 00-0796	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	417.64		38.17
33 42 11 00-0797	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	453.98		40.42
33 42 11 00-0798	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	570.25		49.40
33 42 11 00-0799	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	646.77		71.86
33 42 11 00-0800	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	691.30		78.59
33 42 11 00-0801	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	732.57		84.20
33 42 11 00-0802	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	773.72		89.82
33 42 11 00-0803	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	816.14		95.43
33 42 11 00-0804	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	862.52		101.05
33 42 11 00-0805 14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)					
33 42 11 00-0806	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	483.79		38.17
33 42 11 00-0807	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	527.65		40.42
33 42 11 00-0808	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	650.59		49.40
33 42 11 00-0809	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	733.59		71.86
33 42 11 00-0810	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	785.96		78.59
33 42 11 00-0811	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	834.59		84.20

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0812 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	879.45	89.82
33 42 11 00-0813 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	932.60	95.43
33 42 11 00-0814 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	985.13	101.05
33 42 11 00-0815 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,039.81	112.27
33 42 11 00-0816 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,095.04	123.50
33 42 11 00-0817 12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0818 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	675.31	40.42
33 42 11 00-0819 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	813.95	49.40
33 42 11 00-0820 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	912.38	71.86
33 42 11 00-0821 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	978.32	78.59
33 42 11 00-0822 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,040.80	84.20
33 42 11 00-0823 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,104.09	89.82
33 42 11 00-0824 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,167.79	95.43
33 42 11 00-0825 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,234.37	101.05
33 42 11 00-0826 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,304.12	112.27
33 42 11 00-0827 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,373.06	123.50
33 42 11 00-0828 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,440.52	134.73
33 42 11 00-0829 10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0793)		
33 42 11 00-0830 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,074.44	71.86
33 42 11 00-0831 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,155.46	78.59
33 42 11 00-0832 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,232.14	84.20
33 42 11 00-0833 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,308.17	89.82
33 42 11 00-0834 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,385.60	95.43
33 42 11 00-0835 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,465.73	101.05
33 42 11 00-0836 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,548.75	112.27
33 42 11 00-0837 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,631.27	123.50
33 42 11 00-0838 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,712.11	134.73
33 42 11 00-0839 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,815.85	145.96
33 42 11 00-0840 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,907.35	157.19
33 42 11 00-0841 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	2,004.93	168.42
33 42 11 00-0842 Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0498)		
33 42 11 00-0843 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0844 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)		
33 42 11 00-0845 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	49.99	11.50
For Bituminous Coated Pipe, Add	6.57	
For Bituminous Coated And 25% Paved, Add	15.88	
For Smooth-Flo, Add	26.20	
33 42 11 00-0846 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	55.98	12.55
For Bituminous Coated Pipe, Add	7.85	
For Bituminous Coated And 25% Paved, Add	18.97	
For Smooth-Flo, Add	31.29	
33 42 11 00-0847 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	64.34	13.59
For Bituminous Coated Pipe, Add	9.44	
For Bituminous Coated And 25% Paved, Add	22.83	
For Smooth-Flo, Add	37.66	
33 42 11 00-0848 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	72.37	14.63
For Bituminous Coated Pipe, Add	10.88	
For Bituminous Coated And 25% Paved, Add	26.31	
For Smooth-Flo, Add	43.39	
33 42 11 00-0849 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	94.09	18.82
For Bituminous Coated Pipe, Add	13.82	
For Bituminous Coated And 25% Paved, Add	33.41	
For Smooth-Flo, Add	55.11	
33 42 11 00-0850 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	123.98	24.70
For Bituminous Coated Pipe, Add	17.82	
For Bituminous Coated And 25% Paved, Add	43.09	
For Smooth-Flo, Add	71.08	
33 42 11 00-0851 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)		
33 42 11 00-0852 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	55.32	11.50
For Bituminous Coated Pipe, Add	6.82	
For Bituminous Coated And 25% Paved, Add	15.95	
For Smooth-Flo, Add	26.16	
33 42 11 00-0853 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	62.50	12.55
For Bituminous Coated Pipe, Add	8.18	
For Bituminous Coated And 25% Paved, Add	19.13	
For Smooth-Flo, Add	31.37	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
33 42 11 00-0854	LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	71.61 9.72 22.74 37.29		13.59
33 42 11 00-0855	LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	80.79 11.21 26.22 43.00		14.63
33 42 11 00-0856	LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	104.59 14.19 33.20 54.45		18.82
33 42 11 00-0857	LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	136.47 18.08 42.29 69.36		24.70
33 42 11 00-0858	LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	157.30 21.53 50.38 82.62		29.20
33 42 11 00-0859 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)				
33 42 11 00-0860	LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	81.79 8.84 19.68 30.26		13.48
33 42 11 00-0861	LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	93.72 10.49 23.34 35.89		14.59
33 42 11 00-0862	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	105.47 12.03 26.77 41.17		15.72
33 42 11 00-0863	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	135.93 15.15 33.71 51.84		20.21
33 42 11 00-0864	LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	161.96 18.95 42.18 64.86		24.70
33 42 11 00-0865	LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	186.72 22.42 49.88 76.71		29.20
33 42 11 00-0866	LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	218.15 26.58 59.16 90.97		33.69
33 42 11 00-0867	LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	243.66 29.36 65.33 100.46		38.17
33 42 11 00-0868 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0843)				
33 42 11 00-0869	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	185.95 22.84 48.08 60.63		24.70
33 42 11 00-0870	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	214.69 26.94 56.71 71.52		29.20
33 42 11 00-0871	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	249.86 31.70 66.73 84.16		33.69
33 42 11 00-0872	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	279.50 35.15 73.99 93.31		38.17
33 42 11 00-0873	LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	306.24 38.58 81.23 102.44		40.42
33 42 11 00-0874 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-0875	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)				
33 42 11 00-0876	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	243.31 33.87 102.96 115.15		38.17	
33 42 11 00-0877	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	265.93 37.06 112.67 126.02		40.42	
33 42 11 00-0878	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	329.48 46.55 141.51 158.27		49.40	
33 42 11 00-0879	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	392.43 49.91 151.71 169.68		71.86	
33 42 11 00-0880	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	424.34 53.43 162.43 181.66		78.59	
33 42 11 00-0881	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	453.29 56.97 173.20 193.71		84.20	
33 42 11 00-0882	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	482.14 60.50 183.91 205.69		89.82	
33 42 11 00-0883	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	511.76 64.01 194.60 217.64		95.43	
33 42 11 00-0884	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)				
33 42 11 00-0885	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	321.08 48.09 126.01 149.09		40.42	
33 42 11 00-0886	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	390.66 58.79 154.02 182.24		49.40	
33 42 11 00-0887	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	459.03 63.23 165.65 196.00		71.86	
33 42 11 00-0888	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	496.31 67.82 177.70 210.25		78.59	
33 42 11 00-0889	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	530.64 72.44 189.80 224.58		84.20	
33 42 11 00-0890	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	564.92 77.05 201.88 238.87		89.82	
33 42 11 00-0891	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	599.91 81.64 213.90 253.09		95.43	
33 42 11 00-0892	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	638.24 86.28 226.06 267.47		101.05	
33 42 11 00-0893	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	679.00 90.89 238.13 281.76		112.27	
33 42 11 00-0894	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	721.62 95.96 251.41 297.47		123.50	
33 42 11 00-0895	10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0874)				
33 42 11 00-0896	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	520.90 75.60 179.93 195.43		71.86	



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 42 11 00-0897	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	563.31 81.22 193.31 209.96	78.59
33 42 11 00-0898	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	602.72 86.86 206.73 224.53	84.20
33 42 11 00-0899	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	641.97 92.46 220.06 239.02	89.82
33 42 11 00-0900	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	682.09 98.08 233.43 253.53	95.43
33 42 11 00-0901	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	725.45 103.72 246.86 268.13	101.05
33 42 11 00-0902	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	771.29 109.35 260.25 282.66	112.27
33 42 11 00-0903	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	818.58 115.35 274.53 298.18	123.50
33 42 11 00-0904	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	870.48 122.56 291.69 316.81	134.73
33 42 11 00-0905		125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0906		12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0905)		
33 42 11 00-0907	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	465.10 64.44 157.23 200.09	71.86
33 42 11 00-0908	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	501.79 68.92 168.16 214.00	78.59
33 42 11 00-0909	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	535.17 73.35 178.97 227.75	84.20
33 42 11 00-0910	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	568.55 77.78 189.78 241.51	89.82
33 42 11 00-0911	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	602.90 82.24 200.67 255.36	95.43
33 42 11 00-0912	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	640.73 86.78 211.74 269.45	101.05
33 42 11 00-0913	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	681.00 91.29 222.75 283.46	112.27
33 42 11 00-0914	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	726.55 96.94 236.54 301.01	123.50
33 42 11 00-0915		10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0905)		
33 42 11 00-0916	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	533.59 78.14 176.59 191.83	71.86
33 42 11 00-0917	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	575.76 83.71 189.19 205.52	78.59

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0918 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	614.71 89.26 201.72 219.13	84.20
33 42 11 00-0919 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	653.82 94.83 214.32 232.82	89.82
33 42 11 00-0920 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	692.80 100.22 226.50 246.04	95.43
33 42 11 00-0921 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	736.94 106.02 239.61 260.28	101.05
33 42 11 00-0922 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	782.89 111.67 252.37 274.14	112.27
33 42 11 00-0923 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	834.06 118.45 267.69 290.78	123.50
33 42 11 00-0924 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	881.93 124.85 282.16 306.50	134.73
33 42 11 00-0925 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0926 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)		
33 42 11 00-0927 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	84.31	11.50
33 42 11 00-0928 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	97.00	12.55
33 42 11 00-0929 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	113.83	13.59
33 42 11 00-0930 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	129.49	14.63
33 42 11 00-0931 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	166.85	18.82
33 42 11 00-0932 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	218.49	24.70
33 42 11 00-0933 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)		
33 42 11 00-0934 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	96.56	11.50
33 42 11 00-0935 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	111.96	12.55
33 42 11 00-0936 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	130.54	13.59
33 42 11 00-0937 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	148.91	14.63
33 42 11 00-0938 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	190.99	18.82
33 42 11 00-0939 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	247.21	24.70
33 42 11 00-0940 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	289.50	29.20
33 42 11 00-0941 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)		
33 42 11 00-0942 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	148.65	12.55
33 42 11 00-0943 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	174.00	13.59
33 42 11 00-0944 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	198.12	14.63
33 42 11 00-0945 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	252.41	18.82
33 42 11 00-0946 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	321.39	24.70
33 42 11 00-0947 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	375.89	29.20
33 42 11 00-0948 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	444.02	33.69
33 42 11 00-0949 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	492.41	38.17
33 42 11 00-0950 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0925)		
33 42 11 00-0951 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	379.59	24.70
33 42 11 00-0952 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	443.78	29.20
33 42 11 00-0953 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	520.99	33.69
33 42 11 00-0954 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	579.43	38.17
33 42 11 00-0955 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	634.86	40.42
33 42 11 00-0956 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0842)		
33 42 11 00-0957 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0956)		
33 42 11 00-0958 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	497.47	38.17
33 42 11 00-0959 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	543.53	40.42
33 42 11 00-0960 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	681.10	49.40
33 42 11 00-0961 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	768.87	71.86
33 42 11 00-0962 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	826.90	78.59
33 42 11 00-0963 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	882.06	84.20
33 42 11 00-0964 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	936.97	89.82



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0965	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	992.81	95.43
33 42 11 00-0966		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0966)			
33 42 11 00-0967	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	683.84	40.42
33 42 11 00-0968	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	837.29	49.40
33 42 11 00-0969	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	938.86	71.86
33 42 11 00-0970	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,010.44	78.59
33 42 11 00-0971	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,079.22	84.20
33 42 11 00-0972	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,147.90	89.82
33 42 11 00-0973	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,217.22	95.43
33 42 11 00-0974	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,290.10	101.05
33 42 11 00-0975	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,365.27	112.27
33 42 11 00-0976	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,445.74	123.50
33 42 11 00-0977		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0977)			
33 42 11 00-0978	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,093.07	71.86
33 42 11 00-0979	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,177.41	78.59
33 42 11 00-0980	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,258.93	84.20
33 42 11 00-0981	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,340.00	89.82
33 42 11 00-0982	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,422.02	95.43
33 42 11 00-0983	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,507.51	101.05
33 42 11 00-0984	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,595.38	112.27
33 42 11 00-0985	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,687.43	123.50
33 42 11 00-0986	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,793.09	134.73
33 42 11 00-0987		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0987)			
33 42 11 00-0988		12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0988)			
33 42 11 00-0989	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	924.99	71.86
33 42 11 00-0990	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	993.11	78.59
33 42 11 00-0991	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,057.56	84.20
33 42 11 00-0992	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,121.92	89.82
33 42 11 00-0993	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,187.50	95.43
33 42 11 00-0994	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,257.15	101.05
33 42 11 00-0995	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,328.99	112.27
33 42 11 00-0996	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,414.14	123.50
33 42 11 00-0997		10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0997)			
33 42 11 00-0998	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,089.47	71.86
33 42 11 00-0999	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,170.64	78.59
33 42 11 00-1000	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,248.44	84.20
33 42 11 00-1001	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,326.60	89.82
33 42 11 00-1002	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,403.41	95.43
33 42 11 00-1003	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,488.13	101.05
33 42 11 00-1004	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,573.65	112.27
33 42 11 00-1005	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,672.49	123.50
33 42 11 00-1006	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	.....	1,764.95	134.73
33 42 11 00-1007		Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)			
33 42 11 00-1008		2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1008)			
33 42 11 00-1009		16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1009)			
33 42 11 00-1010	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	47.00	10.97
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	9.77	
33 42 11 00-1011	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	54.07	11.50
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	12.31	
33 42 11 00-1012	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	61.40	12.55
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	14.92	
33 42 11 00-1013	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	70.56	13.59
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	17.84	
33 42 11 00-1014	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	78.40	14.63
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	20.09	
33 42 11 00-1015	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	103.10	18.82
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	26.06	
33 42 11 00-1016	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	133.78	24.70
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	32.88	
33 42 11 00-1017	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	153.42	29.20
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	38.89	
33 42 11 00-1018	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	.....	172.35	33.69
		For 1/2 Bituminous Coated And 25% Paved, Add	.....	43.58	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-1019 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel**Piping** (33 42 11 00-1008)

33 42 11 00-1020	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	52.28	10.97
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	9.28	
33 42 11 00-1021	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	60.59	11.50
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	11.65	
33 42 11 00-1022	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	69.17	12.55
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	14.08	
33 42 11 00-1023	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	79.57	13.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	16.75	
33 42 11 00-1024	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	88.85	14.63
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	18.96	
33 42 11 00-1025	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	115.89	18.82
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	24.35	
33 42 11 00-1026	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	149.26	24.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	30.51	
33 42 11 00-1027	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	171.24	29.20
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	35.94	
33 42 11 00-1028	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	192.66	33.69
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	40.37	
33 42 11 00-1029	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	231.56	38.17
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	49.64	

33 42 11 00-1030 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel**Piping** (33 42 11 00-1008)

33 42 11 00-1031	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	85.50	12.55
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	13.12	
33 42 11 00-1032	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	98.63	13.59
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	15.53	
33 42 11 00-1033	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	110.50	14.63
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	17.59	
33 42 11 00-1034	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	142.92	18.82
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	22.43	
33 42 11 00-1035	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	181.87	24.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	27.84	
33 42 11 00-1036	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	209.02	29.20
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	32.65	
33 42 11 00-1037	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	235.77	33.69
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	36.83	
33 42 11 00-1038	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	280.79	38.17
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	44.47	
33 42 11 00-1039	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	306.74	40.42
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	48.62	
33 42 11 00-1040	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	374.83	49.40
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	59.79	

33 42 11 00-1041 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel**Piping** (33 42 11 00-1008)

33 42 11 00-1042	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	211.19	24.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	30.49	
33 42 11 00-1043	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	243.31	29.20
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	35.74	
33 42 11 00-1044	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	274.69	33.69
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	40.36	
33 42 11 00-1045	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	324.44	38.17
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	48.09	
33 42 11 00-1046	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	355.32	40.42
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	52.74	
33 42 11 00-1047	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	428.19	49.40
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	63.64	
33 42 11 00-1048	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	498.25	71.86
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	68.23	

33 42 11 00-1049 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)**33 42 11 00-1050 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping**

(33 42 11 00-1049)

33 42 11 00-1051	LF	36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	156.83	24.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	36.55	
33 42 11 00-1052	LF	42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	179.80	29.20
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	42.93	
33 42 11 00-1053	LF	48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	202.02	33.69
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	48.14	
33 42 11 00-1054	LF	54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	241.96	38.17
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	58.80	
33 42 11 00-1055	LF	60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	263.64	40.42
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	64.06	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
33 42 11 00-1056	LF 66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	331.82		49.40
	For 1/2 Bituminous Coated And 25% Paved, Add	82.28		
33 42 11 00-1057	LF 72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	393.47		71.86
	For 1/2 Bituminous Coated And 25% Paved, Add	87.70		
33 42 11 00-1058	LF 78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	423.29		78.59
	For 1/2 Bituminous Coated And 25% Paved, Add	93.14		
33 42 11 00-1059	LF 84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	450.10		84.20
	For 1/2 Bituminous Coated And 25% Paved, Add	98.59		
33 42 11 00-1060	LF 90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	476.91		89.82
	For 1/2 Bituminous Coated And 25% Paved, Add	104.04		
33 42 11 00-1061	LF 96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	504.49		95.43
	For 1/2 Bituminous Coated And 25% Paved, Add	109.48		
33 42 11 00-1062	LF 102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	535.30		101.05
	For 1/2 Bituminous Coated And 25% Paved, Add	114.96		
33 42 11 00-1063 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping				
(33 42 11 00-1049)				
33 42 11 00-1064	LF 54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	268.44		38.17
	For 1/2 Bituminous Coated And 25% Paved, Add	50.95		
33 42 11 00-1065	LF 60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	292.90		40.42
	For 1/2 Bituminous Coated And 25% Paved, Add	55.62		
33 42 11 00-1066	LF 66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	364.03		49.40
	For 1/2 Bituminous Coated And 25% Paved, Add	70.03		
33 42 11 00-1067	LF 72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	428.56		71.86
	For 1/2 Bituminous Coated And 25% Paved, Add	74.84		
33 42 11 00-1068	LF 78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	461.22		78.59
	For 1/2 Bituminous Coated And 25% Paved, Add	79.66		
33 42 11 00-1069	LF 84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	491.02		84.20
	For 1/2 Bituminous Coated And 25% Paved, Add	84.52		
33 42 11 00-1070	LF 90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	520.62		89.82
	For 1/2 Bituminous Coated And 25% Paved, Add	89.33		
33 42 11 00-1071	LF 96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	551.03		95.43
	For 1/2 Bituminous Coated And 25% Paved, Add	94.14		
33 42 11 00-1072	LF 102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	584.68		101.05
	For 1/2 Bituminous Coated And 25% Paved, Add	99.00		
33 42 11 00-1073	LF 108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	620.87		112.27
	For 1/2 Bituminous Coated And 25% Paved, Add	103.84		
33 42 11 00-1074	LF 114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	656.31		123.50
	For 1/2 Bituminous Coated And 25% Paved, Add	108.59		
33 42 11 00-1075 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping				
(33 42 11 00-1049)				
33 42 11 00-1076	LF 60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	357.96		40.42
	For 1/2 Bituminous Coated And 25% Paved, Add	74.61		
33 42 11 00-1077	LF 66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	436.05		49.40
	For 1/2 Bituminous Coated And 25% Paved, Add	91.28		
33 42 11 00-1078	LF 72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	506.86		71.86
	For 1/2 Bituminous Coated And 25% Paved, Add	97.91		
33 42 11 00-1079	LF 78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	545.89		78.59
	For 1/2 Bituminous Coated And 25% Paved, Add	104.56		
33 42 11 00-1080	LF 84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	581.96		84.20
	For 1/2 Bituminous Coated And 25% Paved, Add	111.24		
33 42 11 00-1081	LF 90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	617.93		89.82
	For 1/2 Bituminous Coated And 25% Paved, Add	117.90		
33 42 11 00-1082	LF 96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	654.67		95.43
	For 1/2 Bituminous Coated And 25% Paved, Add	124.54		
33 42 11 00-1083	LF 102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	694.63		101.05
	For 1/2 Bituminous Coated And 25% Paved, Add	131.22		
33 42 11 00-1084	LF 108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	737.09		112.27
	For 1/2 Bituminous Coated And 25% Paved, Add	137.87		
33 42 11 00-1085	LF 114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	778.91		123.50
	For 1/2 Bituminous Coated And 25% Paved, Add	144.47		
33 42 11 00-1086	LF 120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	819.61		134.73
	For 1/2 Bituminous Coated And 25% Paved, Add	151.16		
33 42 11 00-1087 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping				
(33 42 11 00-1049)				
33 42 11 00-1088	LF 72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	579.88		71.86
	For 1/2 Bituminous Coated And 25% Paved, Add	120.17		
33 42 11 00-1089	LF 78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	624.79		78.59
	For 1/2 Bituminous Coated And 25% Paved, Add	128.59		
33 42 11 00-1090	LF 84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	666.88		84.20
	For 1/2 Bituminous Coated And 25% Paved, Add	137.08		
33 42 11 00-1091	LF 90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	708.77		89.82
	For 1/2 Bituminous Coated And 25% Paved, Add	145.51		
33 42 11 00-1092	LF 96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	751.58		95.43
	For 1/2 Bituminous Coated And 25% Paved, Add	153.97		
33 42 11 00-1093	LF 102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	797.57		101.05
	For 1/2 Bituminous Coated And 25% Paved, Add	162.45		
33 42 11 00-1094	LF 108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe	845.95		112.27
	For 1/2 Bituminous Coated And 25% Paved, Add	170.89		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1095 LF 114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	893.75 179.28	123.50
33 42 11 00-1096 LF 120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	940.47 187.76	134.73
33 42 11 00-1097 LF 126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	989.16 196.18	145.96
33 42 11 00-1098 LF 132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,040.78 204.66	157.19
33 42 11 00-1099 LF 138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	1,095.86 213.14	168.42
33 42 11 00-1100 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)		
33 42 11 00-1101 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1100)		
33 42 11 00-1102 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	202.87 59.64	33.69
33 42 11 00-1103 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	243.51 73.07	38.17
33 42 11 00-1104 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	264.98 79.46	40.42
33 42 11 00-1105 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	328.84 100.04	49.40
33 42 11 00-1106 LF 72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	390.14 106.56	71.86
33 42 11 00-1107 LF 78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	419.56 113.08	78.59
33 42 11 00-1108 LF 84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	445.82 119.56	84.20
33 42 11 00-1109 LF 90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	471.98 125.99	89.82
33 42 11 00-1110 LF 96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	499.27 132.56	95.43
33 42 11 00-1111 LF 102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	529.98 139.28	101.05
33 42 11 00-1112 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1100)		
33 42 11 00-1113 LF 54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	276.61 68.90	38.17
33 42 11 00-1114 LF 60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	301.86 75.23	40.42
33 42 11 00-1115 LF 66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	369.00 92.57	49.40
33 42 11 00-1116 LF 72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	433.59 98.83	71.86
33 42 11 00-1117 LF 78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	466.90 105.30	78.59
33 42 11 00-1118 LF 84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	496.84 111.66	84.20
33 42 11 00-1119 LF 90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	524.90 117.39	89.82
33 42 11 00-1120 LF 96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	557.45 124.36	95.43
33 42 11 00-1121 LF 102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	591.30 130.72	101.05
33 42 11 00-1122 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	627.54 137.02	112.27
33 42 11 00-1123 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	663.78 143.46	123.50
33 42 11 00-1124 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1100)		
33 42 11 00-1125 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	370.80 82.99	40.42
33 42 11 00-1126 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	445.01 99.61	49.40
33 42 11 00-1127 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	516.82 106.94	71.86
33 42 11 00-1128 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	556.49 114.20	78.59
33 42 11 00-1129 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	592.96 121.42	84.20
33 42 11 00-1130 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	629.77 128.73	89.82
33 42 11 00-1131 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	667.16 135.98	95.43
33 42 11 00-1132 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	707.63 143.23	101.05



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-1133	LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	750.88		112.27	
	For 1/2 Bituminous Coated And 25% Paved, Add	150.53			
33 42 11 00-1134	LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	793.55		123.50	
	For 1/2 Bituminous Coated And 25% Paved, Add	157.79			
33 42 11 00-1135	LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	834.79		134.73	
	For 1/2 Bituminous Coated And 25% Paved, Add	165.05			
33 42 11 00-1136 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1100)					
33 42 11 00-1137	LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	596.51		71.86	
	For 1/2 Bituminous Coated And 25% Paved, Add	129.73			
33 42 11 00-1138	LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	643.60		78.59	
	For 1/2 Bituminous Coated And 25% Paved, Add	139.11			
33 42 11 00-1139	LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	686.99		84.20	
	For 1/2 Bituminous Coated And 25% Paved, Add	148.31			
33 42 11 00-1140	LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	730.07		89.82	
	For 1/2 Bituminous Coated And 25% Paved, Add	157.42			
33 42 11 00-1141	LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	774.23		95.43	
	For 1/2 Bituminous Coated And 25% Paved, Add	166.60			
33 42 11 00-1142	LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	821.31		101.05	
	For 1/2 Bituminous Coated And 25% Paved, Add	175.74			
33 42 11 00-1143	LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	871.14		112.27	
	For 1/2 Bituminous Coated And 25% Paved, Add	184.92			
33 42 11 00-1144	LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	920.48		123.50	
	For 1/2 Bituminous Coated And 25% Paved, Add	194.09			
33 42 11 00-1145	LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	968.24		134.73	
	For 1/2 Bituminous Coated And 25% Paved, Add	203.22			
33 42 11 00-1146	LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,028.48		145.96	
	For 1/2 Bituminous Coated And 25% Paved, Add	215.28			
33 42 11 00-1147	LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,083.99		157.19	
	For 1/2 Bituminous Coated And 25% Paved, Add	225.20			
33 42 11 00-1148	LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	1,144.24		168.42	
	For 1/2 Bituminous Coated And 25% Paved, Add	235.50			
33 42 11 00-1149 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1007)					
33 42 11 00-1150 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)					
33 42 11 00-1151	LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	70.31		12.55	
33 42 11 00-1152	LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	80.86		13.59	
33 42 11 00-1153	LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	90.59		14.63	
33 42 11 00-1154	LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	117.98		18.82	
33 42 11 00-1155	LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	151.26		24.70	
33 42 11 00-1156	LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	173.58		29.20	
33 42 11 00-1157	LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	195.80		33.69	
33 42 11 00-1158	LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	232.95		38.17	
33 42 11 00-1159	LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	254.58		40.42	
33 42 11 00-1160 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)					
33 42 11 00-1161	LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	77.98		12.55	
33 42 11 00-1162	LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	89.82		13.59	
33 42 11 00-1163	LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	100.75		14.63	
33 42 11 00-1164	LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	130.68		18.82	
33 42 11 00-1165	LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	166.54		24.70	
33 42 11 00-1166	LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	191.45		29.20	
33 42 11 00-1167	LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	216.21		33.69	
33 42 11 00-1168	LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	255.90		38.17	
33 42 11 00-1169	LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	280.16		40.42	
33 42 11 00-1170	LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	340.98		49.40	
33 42 11 00-1171	LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	404.52		71.86	
33 42 11 00-1172	LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	436.43		78.59	
33 42 11 00-1173 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1149)					
33 42 11 00-1174	LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	156.41		18.82	
33 42 11 00-1175	LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	197.35		24.70	
33 42 11 00-1176	LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	227.53		29.20	
33 42 11 00-1177	LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	257.37		33.69	
33 42 11 00-1178	LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	302.19		38.17	
33 42 11 00-1179	LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	331.68		40.42	
33 42 11 00-1180	LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	397.53		49.40	
33 42 11 00-1181	LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	466.15		71.86	
33 42 11 00-1182	LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	503.18		78.59	
33 42 11 00-1183	LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	537.01		84.20	
33 42 11 00-1184	LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	570.89		89.82	
33 42 11 00-1185	LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	605.44		95.43	
33 42 11 00-1186	LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	640.68		101.05	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-1187	Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0498)		
33 42 11 00-1188	2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)		
33 42 11 00-1189	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1190	LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	55.86 15.90	11.50
33 42 11 00-1191	LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	63.00 19.00	12.55
33 42 11 00-1192	LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	72.75 22.85	13.59
33 42 11 00-1193	LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	82.08 26.33	14.63
33 42 11 00-1194	LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	106.43 33.45	18.82
33 42 11 00-1195	LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	139.91 43.14	24.70
33 42 11 00-1196	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1197	LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	62.39 16.48	11.50
33 42 11 00-1198	LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	70.91 19.74	12.55
33 42 11 00-1199	LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	81.66 23.48	13.59
33 42 11 00-1200	LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	92.38 27.08	14.63
33 42 11 00-1201	LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	119.28 34.29	18.82
33 42 11 00-1202	LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	155.19 43.69	24.70
33 42 11 00-1203	LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	179.60 52.04	29.20
33 42 11 00-1204	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1205	LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	87.04 18.08	12.55
33 42 11 00-1206	LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	100.78 21.49	13.59
33 42 11 00-1207	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	114.04 24.67	14.63
33 42 11 00-1208	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	146.31 31.13	18.82
33 42 11 00-1209	LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	187.84 39.14	24.70
33 42 11 00-1210	LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	217.68 46.39	29.20
33 42 11 00-1211	LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	255.63 55.24	33.69
33 42 11 00-1212	LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	284.67 60.89	38.17
33 42 11 00-1213	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1188)		
33 42 11 00-1214	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	217.16 41.19	24.70
33 42 11 00-1215	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	251.87 48.68	29.20
33 42 11 00-1216	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	294.41 57.48	33.69
33 42 11 00-1217	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	328.52 63.64	38.17
33 42 11 00-1218	LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	359.75 69.79	40.42
33 42 11 00-1219	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)		
33 42 11 00-1220	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1219)		
33 42 11 00-1221	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	273.67 91.46	38.17
33 42 11 00-1222	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	299.13 100.08	40.42



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1223	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	371.19 125.70		49.40
33 42 11 00-1224	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	437.13 134.76		71.86
33 42 11 00-1225	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	472.22 144.28		78.59
33 42 11 00-1226	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	504.31 153.84		84.20
33 42 11 00-1227	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	536.29 163.34		89.82
33 42 11 00-1228	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	569.15 172.87		95.43
33 42 11 00-1229 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1219)				
33 42 11 00-1230	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	364.23 113.73		40.42
33 42 11 00-1231	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	443.37 139.00		49.40
33 42 11 00-1232	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	515.72 149.50		71.86
33 42 11 00-1233	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	557.09 160.36		78.59
33 42 11 00-1234	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	595.60 171.30		84.20
33 42 11 00-1235	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	634.01 182.20		89.82
33 42 11 00-1236	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	673.13 193.05		95.43
33 42 11 00-1237	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	715.59 204.01		101.05
33 42 11 00-1238	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	760.49 214.91		112.27
33 42 11 00-1239	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	807.68 226.91		123.50
33 42 11 00-1240 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1219)				
33 42 11 00-1241	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	588.69 161.82		71.86
33 42 11 00-1242	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	636.13 173.86		78.59
33 42 11 00-1243	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	680.62 185.93		84.20
33 42 11 00-1244	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	724.90 197.93		89.82
33 42 11 00-1245	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	774.08 211.40		95.43
33 42 11 00-1246	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	818.48 222.03		101.05
33 42 11 00-1247	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	869.40 234.08		112.27
33 42 11 00-1248	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	922.02 246.91		123.50
33 42 11 00-1249	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	980.39 262.34		134.73
33 42 11 00-1250 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1187)				
33 42 11 00-1251 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1250)				
33 42 11 00-1252	LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	523.09 147.13		71.86
33 42 11 00-1253	LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	563.81 157.36		78.59
33 42 11 00-1254	LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	601.22 167.49		84.20
33 42 11 00-1255	LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	638.58 177.61		89.82
33 42 11 00-1256	LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	676.92 187.78		95.43
33 42 11 00-1257	LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	718.83 198.14		101.05
33 42 11 00-1258	LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	763.18 208.45		112.27
33 42 11 00-1259	LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	813.81 221.36		123.50

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 42 11 00-1260	10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1250)				
33 42 11 00-1261	LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	603.93 163.20		71.86	
33 42 11 00-1262	LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	651.12 174.85		78.59	
33 42 11 00-1263	LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	695.05 186.43		84.20	
33 42 11 00-1264	LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	739.18 198.07		89.82	
33 42 11 00-1265	LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	783.04 209.33		95.43	
33 42 11 00-1266	LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	832.37 221.44		101.05	
33 42 11 00-1267	LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	883.43 233.24		112.27	
33 42 11 00-1268	LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	940.69 247.40		123.50	
33 42 11 00-1269	LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	994.33 260.77		134.73	
33 42 11 00-1270	Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-0498)				
33 42 11 00-1271	1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1270)				
33 42 11 00-1272	18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1271)				
33 42 11 00-1273	LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	28.30 3.02		6.27	
33 42 11 00-1274	LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	36.59 4.11		7.84	
33 42 11 00-1275	LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	47.48 5.41		9.41	
33 42 11 00-1276	16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1271)				
33 42 11 00-1277	LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	31.77 3.00		6.27	
33 42 11 00-1278	LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	41.50 4.10		7.84	
33 42 11 00-1279	LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	54.02 5.42		9.41	
33 42 11 00-1280	2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1270)				
33 42 11 00-1281	16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)				
33 42 11 00-1282	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	54.98 5.95		10.97	
33 42 11 00-1283	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	63.97 7.47		11.50	
33 42 11 00-1284	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	73.52 9.07		12.55	
33 42 11 00-1285	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	84.96 10.83		13.59	
33 42 11 00-1286	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	95.06 12.28		14.63	
33 42 11 00-1287	14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)				
33 42 11 00-1288	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	62.41 5.82		10.97	
33 42 11 00-1289	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	73.45 7.33		11.50	
33 42 11 00-1290	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	84.88 8.88		12.55	
33 42 11 00-1291	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	98.13 10.54		13.59	
33 42 11 00-1292	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	110.18 11.98		14.63	
33 42 11 00-1293	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	143.06 15.36		18.82	
33 42 11 00-1294	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	182.29 19.09		24.70	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 42 11 00-1295	12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)			
33 42 11 00-1296	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	139.08 11.37		14.63
33 42 11 00-1297	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	179.03 14.47		18.82
33 42 11 00-1298	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	225.50 17.83		24.70
33 42 11 00-1299	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	260.74 20.97		29.20
33 42 11 00-1300	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	294.93 23.74		33.69
33 42 11 00-1301	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	347.35 28.16		38.17
33 42 11 00-1302	10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1280)			
33 42 11 00-1303	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	271.55 17.53		24.70
33 42 11 00-1304	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	314.38 20.58		29.20
33 42 11 00-1305	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	356.42 23.35		33.69
33 42 11 00-1306	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	416.52 27.40		38.17
33 42 11 00-1307	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	458.08 30.20		40.42
33 42 11 00-1308	3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1270)			
33 42 11 00-1309	16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)			
33 42 11 00-1310	LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	140.71 17.53		18.82
33 42 11 00-1311	LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	179.36 17.53		24.70
33 42 11 00-1312	LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	205.95 17.53		29.20
33 42 11 00-1313	LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	233.29 20.58		33.69
33 42 11 00-1314	LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	275.94 23.35		38.17
33 42 11 00-1315	14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)			
33 42 11 00-1316	LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	159.66 17.53		18.82
33 42 11 00-1317	LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	206.39 17.53		24.70
33 42 11 00-1318	LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	237.33 17.53		29.20
33 42 11 00-1319	LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	267.54 20.58		33.69
33 42 11 00-1320	LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	316.06 23.35		38.17
33 42 11 00-1321	LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	345.64 27.40		40.42
33 42 11 00-1322	LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	420.71 28.16		49.40
33 42 11 00-1323	LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	490.07 30.20		71.86
33 42 11 00-1324	LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	527.61 33.69		78.59
33 42 11 00-1325	12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)			
33 42 11 00-1326	LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	203.90 17.53		18.82
33 42 11 00-1327	LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	256.14 17.53		24.70
33 42 11 00-1328	LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	296.78 17.53		29.20
33 42 11 00-1329	LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	335.72 20.58		33.69
33 42 11 00-1330	LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	392.60 23.35		38.17
33 42 11 00-1331	LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	430.40 27.40		40.42
33 42 11 00-1332	LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	513.67 28.16		49.40
33 42 11 00-1333	LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	591.44 30.20		71.86
33 42 11 00-1334	LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	637.27 33.69		78.59
33 42 11 00-1335	LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	680.17 38.17		84.20
33 42 11 00-1336	LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	722.94 40.42		89.82
33 42 11 00-1337	LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	766.53 44.70		95.43
33 42 11 00-1338	10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1308)			
33 42 11 00-1339	LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	519.54 17.53		40.42
33 42 11 00-1340	LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	607.97 17.53		49.40
33 42 11 00-1341	LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	694.21 20.58		71.86
33 42 11 00-1342	LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	748.51 23.35		78.59
33 42 11 00-1343	LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	799.74 27.40		84.20
33 42 11 00-1344	LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	850.95 28.16		89.82
33 42 11 00-1345	LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	902.94 30.20		95.43

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1346	LF	102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	958.21	101.05
33 42 11 00-1347	LF	108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	1,015.94	112.27
33 42 11 00-1348		Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1270) Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1349		16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1350	LF	18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	99.03	12.55
33 42 11 00-1351	LF	21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	106.50	13.59
33 42 11 00-1352	LF	24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	128.97	14.63
33 42 11 00-1353	LF	27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	148.94	16.72
33 42 11 00-1354	LF	30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	166.66	18.82
33 42 11 00-1355	LF	33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	186.53	20.90
33 42 11 00-1356		14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1357	LF	18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	115.06	12.55
33 42 11 00-1358	LF	21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	133.38	13.59
33 42 11 00-1359	LF	24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	150.52	14.63
33 42 11 00-1360	LF	27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	173.13	16.72
33 42 11 00-1361	LF	30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	193.49	18.82
33 42 11 00-1362	LF	33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	216.10	20.90
33 42 11 00-1363	LF	36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	243.19	24.70
33 42 11 00-1364	LF	42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	281.34	29.20
33 42 11 00-1365	LF	48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	318.40	33.69
33 42 11 00-1366		12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1367	LF	30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	245.96	18.82
33 42 11 00-1368	LF	33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	273.69	20.90
33 42 11 00-1369	LF	36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	306.11	24.70
33 42 11 00-1370	LF	42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	354.81	29.20
33 42 11 00-1371	LF	48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	402.37	33.69
33 42 11 00-1372	LF	54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	559.39	38.17
33 42 11 00-1373	LF	60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	615.80	40.42
33 42 11 00-1374		10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1348)		
33 42 11 00-1375	LF	48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	573.45	33.69
33 42 11 00-1376	LF	54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	664.86	38.17
33 42 11 00-1377	LF	60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	733.12	40.42
33 42 11 00-1378	LF	66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	851.18	49.40
33 42 11 00-1379	LF	72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	957.63	71.86
33 42 11 00-1380	LF	78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,033.10	78.59
33 42 11 00-1381	LF	84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	1,104.86	84.20
33 42 11 00-1382		Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-0498)		
33 42 11 00-1383		2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1382)		
33 42 11 00-1384		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1383)		
33 42 11 00-1385	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	67.36 7.48	11.50
33 42 11 00-1386	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	76.73 8.94	12.55
33 42 11 00-1387	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	88.61 10.64	13.59
33 42 11 00-1388		14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1383)		
33 42 11 00-1389	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	76.85 7.45	11.50
33 42 11 00-1390	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	85.84 8.59	12.55
33 42 11 00-1391	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	101.78 10.55	13.59
33 42 11 00-1392	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	115.13 12.10	14.63
33 42 11 00-1393	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	147.99 15.32	18.82
33 42 11 00-1394		12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1383)		



Utilities		33	CS
Stormwater Utilities		33 40	
Stormwater Conveyance		33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1395	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	144.05 11.54	14.63
33 42 11 00-1396	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	184.05 14.55	18.82
33 42 11 00-1397	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	233.99 18.16	24.70
33 42 11 00-1398	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	271.91 21.48	29.20
33 42 11 00-1399 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
(33 42 11 00-1383)				
33 42 11 00-1400	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	279.98 17.52	24.70
33 42 11 00-1401	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	325.65 20.67	29.20
33 42 11 00-1402	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	379.04 24.22	33.69
33 42 11 00-1403	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... <i>For Bituminous Coated Pipe, Add</i>	423.96 26.95	38.17
33 42 11 00-1404 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
(33 42 11 00-1382)				
33 42 11 00-1405 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
(33 42 11 00-1404)				
33 42 11 00-1406	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	323.50	38.17
33 42 11 00-1407	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	354.28	40.42
33 42 11 00-1408	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	431.40	49.40
33 42 11 00-1409 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
(33 42 11 00-1404)				
33 42 11 00-1410	LF	60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	400.04	38.17
33 42 11 00-1411	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	439.04	40.42
33 42 11 00-1412	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	523.97	49.40
33 42 11 00-1413	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	602.53	71.86
33 42 11 00-1414	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	649.14	78.59
33 42 11 00-1415	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	692.83	84.20
33 42 11 00-1416 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch				
(33 42 11 00-1404)				
33 42 11 00-1417	LF	66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	528.06	40.42
33 42 11 00-1418	LF	73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	617.89	49.40
33 42 11 00-1419	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	704.90	71.86
33 42 11 00-1420	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	759.97	78.59
33 42 11 00-1421	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	811.99	84.20
33 42 11 00-1422	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	863.97	89.82
33 42 11 00-1423 Corrugated Steel Pipe Fittings				
(33 42 11 00-0498)				
Note: Equivalent pipe-arch sizes are approximate.				
33 42 11 00-1424 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings				
(33 42 11 00-1423)				
Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.				
33 42 11 00-1425	EA	Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	92.38	
33 42 11 00-1426	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	115.84	
33 42 11 00-1427	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	139.31	
33 42 11 00-1428	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	164.26	
33 42 11 00-1429	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	199.43	
33 42 11 00-1430	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	234.61	
33 42 11 00-1431	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	269.81	
33 42 11 00-1432	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	304.99	
33 42 11 00-1433	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	397.39	
33 42 11 00-1434	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	473.62	
33 42 11 00-1435	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	549.89	
33 42 11 00-1436	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	711.19	
33 42 11 00-1437	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	802.11	
33 42 11 00-1438	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	895.96	
33 42 11 00-1439	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	992.73	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1440	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,209.75	
33 42 11 00-1441	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,319.72	
33 42 11 00-1442	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,432.62	
33 42 11 00-1443	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,758.16	
33 42 11 00-1444	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,887.22	
33 42 11 00-1445	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	2,017.72	
33 42 11 00-1446	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,148.21	
33 42 11 00-1447	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,277.25	
33 42 11 00-1448	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,407.77	
33 42 11 00-1449	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,545.37	
33 42 11 00-1450	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,690.83	
33 42 11 00-1451	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	2,844.57	

33 42 11 00-1452**Fabricate Corrugated Steel Pipe Tees Or Laterals** (33 42 11 00-1423)

Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.

33 42 11 00-1453	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	120.25	
33 42 11 00-1454	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	153.97	
33 42 11 00-1455	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	187.67	
33 42 11 00-1456	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	221.43	
33 42 11 00-1457	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	269.81	
33 42 11 00-1458	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	319.65	
33 42 11 00-1459	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	369.54	
33 42 11 00-1460	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	419.36	
33 42 11 00-1461	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	549.89	
33 42 11 00-1462	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	655.47	
33 42 11 00-1463	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	762.50	
33 42 11 00-1464	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	989.78	
33 42 11 00-1465	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,114.42	
33 42 11 00-1466	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,243.46	
33 42 11 00-1467	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,375.43	
33 42 11 00-1468	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,677.50	
33 42 11 00-1469	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,827.10	
33 42 11 00-1470	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,979.59	
33 42 11 00-1471	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,435.59	
33 42 11 00-1472	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,610.11	
33 42 11 00-1473	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,784.60	
33 42 11 00-1474	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,960.55	
33 42 11 00-1475	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,136.54	
33 42 11 00-1476	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,311.00	
33 42 11 00-1477	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,495.21	
33 42 11 00-1478	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,689.65	
33 42 11 00-1479	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,894.88	

33 42 11 00-1480**Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting** (33 42 11 00-1423)

Note: Applied to pipe tasks.

33 42 11 00-1481	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	46.36	
33 42 11 00-1482	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	58.31	
33 42 11 00-1483	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	73.35	
33 42 11 00-1484	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	89.81	
33 42 11 00-1485	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	113.66	
33 42 11 00-1486	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	139.17	
33 42 11 00-1487	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	163.01	



	Utilities	33	CS
	Stormwater Utilities	33 40	
	Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 42 11 00-1488	EA		Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	189.40	
33 42 11 00-1489	EA		Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	232.63	
33 42 11 00-1490	EA		Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	277.36	
33 42 11 00-1491	EA		Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	330.94	
33 42 11 00-1492	EA		Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	407.09	
33 42 11 00-1493	EA		Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	460.77	
33 42 11 00-1494	EA		Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	518.91	
33 42 11 00-1495	EA		Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	629.28	
33 42 11 00-1496	EA		Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	697.86	
33 42 11 00-1497	EA		Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	851.45	
33 42 11 00-1498	EA		Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	927.53	
33 42 11 00-1499	EA		Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,008.08	
33 42 11 00-1500	EA		Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,087.06	
33 42 11 00-1501	EA		Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,167.58	
33 42 11 00-1502	EA		Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,249.58	
33 42 11 00-1503	EA		Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,330.14	
33 42 11 00-1504	EA		Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting	1,410.64	
33 42 11 00-1505	EA		Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,496.02	
33 42 11 00-1506	EA		Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,586.54	
33 42 11 00-1507	EA		Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,682.57	

33 42 11 00-1508 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1423)

33 42 11 00-1509	EA		6" Coupling Band, Corrugated Metal Pipe Fitting	17.32	
			<i>For Bituminous Coated, Add</i>	5.02	
33 42 11 00-1510	EA		8" Coupling Band, Corrugated Metal Pipe Fitting	23.00	
			<i>For Bituminous Coated, Add</i>	6.67	
33 42 11 00-1511	EA		10" Coupling Band, Corrugated Metal Pipe Fitting	28.97	
			<i>For Bituminous Coated, Add</i>	8.40	
33 42 11 00-1512	EA		12" Coupling Band, Corrugated Metal Pipe Fitting	48.08	
			<i>For Bituminous Coated, Add</i>	13.94	
33 42 11 00-1513	EA		15" Coupling Band, Corrugated Metal Pipe Fitting	60.63	
			<i>For Bituminous Coated, Add</i>	17.58	
33 42 11 00-1514	EA		18" Coupling Band, Corrugated Metal Pipe Fitting	88.95	
			<i>For Bituminous Coated, Add</i>	25.80	
33 42 11 00-1515	EA		21" Coupling Band, Corrugated Metal Pipe Fitting	105.57	
			<i>For Bituminous Coated, Add</i>	30.62	
33 42 11 00-1516	EA		24" Coupling Band, Corrugated Metal Pipe Fitting	119.71	
			<i>For Bituminous Coated, Add</i>	34.72	
33 42 11 00-1517	EA		30" Coupling Band, Corrugated Metal Pipe Fitting	207.17	
			<i>For Bituminous Coated, Add</i>	60.08	
33 42 11 00-1518	EA		36" Coupling Band, Corrugated Metal Pipe Fitting	331.46	
			<i>For Bituminous Coated, Add</i>	79.55	
33 42 11 00-1519	EA		42" Coupling Band, Corrugated Metal Pipe Fitting	389.45	
			<i>For Bituminous Coated, Add</i>	93.47	
33 42 11 00-1520	EA		48" Coupling Band, Corrugated Metal Pipe Fitting	436.39	
			<i>For Bituminous Coated, Add</i>	104.73	
33 42 11 00-1521	EA		54" Coupling Band, Corrugated Metal Pipe Fitting	618.86	
			<i>For Bituminous Coated, Add</i>	148.53	
33 42 11 00-1522	EA		60" Coupling Band, Corrugated Metal Pipe Fitting	885.17	
			<i>For Bituminous Coated, Add</i>	159.33	
33 42 11 00-1523	EA		66" Coupling Band, Corrugated Metal Pipe Fitting	1,087.85	
			<i>For Bituminous Coated, Add</i>	195.81	
33 42 11 00-1524	EA		72" Coupling Band, Corrugated Metal Pipe Fitting	1,397.41	
			<i>For Bituminous Coated, Add</i>	195.64	
33 42 11 00-1525	EA		78" Coupling Band, Corrugated Metal Pipe Fitting	1,494.62	
			<i>For Bituminous Coated, Add</i>	209.25	
33 42 11 00-1526	EA		84" Coupling Band, Corrugated Metal Pipe Fitting	1,592.38	
			<i>For Bituminous Coated, Add</i>	222.93	
33 42 11 00-1527	EA		90" Coupling Band, Corrugated Metal Pipe Fitting	1,689.65	
			<i>For Bituminous Coated, Add</i>	236.55	
33 42 11 00-1528	EA		96" Coupling Band, Corrugated Metal Pipe Fitting	1,787.16	
			<i>For Bituminous Coated, Add</i>	250.20	
33 42 11 00-1529	EA		102" Coupling Band, Corrugated Metal Pipe Fitting	1,884.92	
			<i>For Bituminous Coated, Add</i>	263.89	
33 42 11 00-1530	EA		108" Coupling Band, Corrugated Metal Pipe Fitting	1,982.23	
			<i>For Bituminous Coated, Add</i>	277.51	
33 42 11 00-1531	EA		114" Coupling Band, Corrugated Metal Pipe Fitting	2,347.73	
			<i>For Bituminous Coated, Add</i>	281.73	
33 42 11 00-1532	EA		120" Coupling Band, Corrugated Metal Pipe Fitting	2,176.70	
			<i>For Bituminous Coated, Add</i>	261.20	
33 42 11 00-1533	EA		126" Coupling Band, Corrugated Metal Pipe Fitting	2,273.72	
			<i>For Bituminous Coated, Add</i>	272.85	
33 42 11 00-1534	EA		132" Coupling Band, Corrugated Metal Pipe Fitting	2,371.43	
			<i>For Bituminous Coated, Add</i>	284.57	
33 42 11 00-1535	EA		138" Coupling Band, Corrugated Metal Pipe Fitting	2,469.24	
			<i>For Bituminous Coated, Add</i>	296.31	

33 42 13 Stormwater Culverts (33 42)

33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 13 13-0001**Precast Reinforced Concrete Box Culvert** (33 42 13 13)

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0914 for crane lifting equipment.

33 42 13 13-0002	LF 3' x 3' Precast Reinforced Concrete Box Culvert	451.00	56.14
	For Each LF Of Cut-Off Section, Add	18.04	
33 42 13 13-0003	LF 4' x 2' Precast Reinforced Concrete Box Culvert	508.36	56.14
	For Each LF Of Cut-Off Section, Add	20.33	
33 42 13 13-0004	LF 4' x 3' Precast Reinforced Concrete Box Culvert	601.01	56.14
	For Each LF Of Cut-Off Section, Add	24.04	
33 42 13 13-0005	LF 5' x 3' Precast Reinforced Concrete Box Culvert	721.49	70.18
	For Each LF Of Cut-Off Section, Add	28.86	
33 42 13 13-0006	LF 5' x 4' Precast Reinforced Concrete Box Culvert	739.14	70.18
	For Each LF Of Cut-Off Section, Add	29.57	
33 42 13 13-0007	LF 5' x 5' Precast Reinforced Concrete Box Culvert	747.97	70.18
	For Each LF Of Cut-Off Section, Add	29.92	
33 42 13 13-0008	LF 6' x 3' Precast Reinforced Concrete Box Culvert	771.17	72.98
	For Each LF Of Cut-Off Section, Add	30.85	
33 42 13 13-0009	LF 6' x 4' Precast Reinforced Concrete Box Culvert	775.59	72.98
	For Each LF Of Cut-Off Section, Add	31.02	
33 42 13 13-0010	LF 6' x 6' Precast Reinforced Concrete Box Culvert	855.00	72.98
	For Each LF Of Cut-Off Section, Add	34.20	
33 42 13 13-0011	LF 7' x 4' Precast Reinforced Concrete Box Culvert	877.26	84.20
	For Each LF Of Cut-Off Section, Add	35.09	
33 42 13 13-0012	LF 7' x 6' Precast Reinforced Concrete Box Culvert	937.35	114.52
	For Each LF Of Cut-Off Section, Add	37.49	
33 42 13 13-0013	LF 8' x 2' Precast Reinforced Concrete Box Culvert	859.41	72.98
	For Each LF Of Cut-Off Section, Add	34.38	
33 42 13 13-0014	LF 8' x 3' Precast Reinforced Concrete Box Culvert	881.67	84.20
	For Each LF Of Cut-Off Section, Add	35.27	
33 42 13 13-0015	LF 8' x 4' Precast Reinforced Concrete Box Culvert	894.91	84.20
	For Each LF Of Cut-Off Section, Add	35.80	
33 42 13 13-0016	LF 8' x 5' Precast Reinforced Concrete Box Culvert	1,079.37	112.27
	For Each LF Of Cut-Off Section, Add	43.17	
33 42 13 13-0017	LF 8' x 6' Precast Reinforced Concrete Box Culvert	1,082.90	112.27
	For Each LF Of Cut-Off Section, Add	43.32	
33 42 13 13-0018	LF 8' x 8' Precast Reinforced Concrete Box Culvert	1,197.66	140.35
	For Each LF Of Cut-Off Section, Add	47.91	
33 42 13 13-0019	LF 9' x 4' Precast Reinforced Concrete Box Culvert	1,193.20	112.27
	For Each LF Of Cut-Off Section, Add	47.73	
33 42 13 13-0020	LF 9' x 6' Precast Reinforced Concrete Box Culvert	1,262.08	140.35
	For Each LF Of Cut-Off Section, Add	50.48	
33 42 13 13-0021	LF 10' x 3' Precast Reinforced Concrete Box Culvert	1,266.49	140.35
	For Each LF Of Cut-Off Section, Add	50.66	
33 42 13 13-0022	LF 10' x 4' Precast Reinforced Concrete Box Culvert	1,540.03	140.35
	For Each LF Of Cut-Off Section, Add	61.60	
33 42 13 13-0023	LF 10' x 5' Precast Reinforced Concrete Box Culvert	1,613.32	168.42
	For Each LF Of Cut-Off Section, Add	64.53	
33 42 13 13-0024	LF 10' x 6' Precast Reinforced Concrete Box Culvert	1,630.97	168.42
	For Each LF Of Cut-Off Section, Add	65.24	
33 42 13 13-0025	LF 10' x 7' Precast Reinforced Concrete Box Culvert	1,635.38	168.42
	For Each LF Of Cut-Off Section, Add	65.42	
33 42 13 13-0026	LF 10' x 8' Precast Reinforced Concrete Box Culvert	1,641.56	168.42
	For Each LF Of Cut-Off Section, Add	65.66	
33 42 13 13-0027	LF 12' x 3' Precast Reinforced Concrete Box Culvert	1,704.27	196.49
	For Each LF Of Cut-Off Section, Add	68.17	
33 42 13 13-0028	LF 12' x 4' Precast Reinforced Concrete Box Culvert	1,704.27	196.49
	For Each LF Of Cut-Off Section, Add	68.17	
33 42 13 13-0029	LF 12' x 6' Precast Reinforced Concrete Box Culvert	1,704.27	196.49
	For Each LF Of Cut-Off Section, Add	68.17	
33 42 13 13-0030	LF 12' x 8' Precast Reinforced Concrete Box Culvert	1,704.27	196.49
	For Each LF Of Cut-Off Section, Add	68.17	
33 42 13 13-0031	LF 16' x 10' Precast Reinforced Concrete Box Culvert	2,483.47	224.55
	For Each LF Of Cut-Off Section, Add	99.34	
33 42 13 13-0032	LF 24' x 10' Precast Reinforced Concrete Box Culvert	3,454.11	224.55
	For Each LF Of Cut-Off Section, Add	138.16	

33 42 13 13-0033**Precast Reinforced Concrete Box Culvert For Roadways** (33 42 13 13)

Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0914 for crane lifting equipment.

33 42 13 13-0034	LF 3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,126.48	56.14
	For Each LF Of Cut-Off Section, Add	45.06	
33 42 13 13-0035	LF 4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,211.24	56.14
	For Each LF Of Cut-Off Section, Add	48.45	
33 42 13 13-0036	LF 4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,361.23	56.14
	For Each LF Of Cut-Off Section, Add	54.45	
33 42 13 13-0037	LF 5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,539.03	70.18
	For Each LF Of Cut-Off Section, Add	61.56	
33 42 13 13-0038	LF 5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,689.03	70.18
	For Each LF Of Cut-Off Section, Add	67.56	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0039 LF 5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	1,839.03	70.18
For Each LF Of Cut-Off Section, Add	73.56	
33 42 13 13-0040 LF 6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,694.59	72.98
For Each LF Of Cut-Off Section, Add	67.78	
33 42 13 13-0041 LF 6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,844.59	72.98
For Each LF Of Cut-Off Section, Add	73.78	
33 42 13 13-0042 LF 6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,144.59	72.98
For Each LF Of Cut-Off Section, Add	85.78	
33 42 13 13-0043 LF 7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,016.85	84.20
For Each LF Of Cut-Off Section, Add	80.67	
33 42 13 13-0044 LF 7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,376.90	114.52
For Each LF Of Cut-Off Section, Add	95.08	
33 42 13 13-0045 LF 8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,844.59	72.98
For Each LF Of Cut-Off Section, Add	73.78	
33 42 13 13-0046 LF 8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,016.85	84.20
For Each LF Of Cut-Off Section, Add	80.67	
33 42 13 13-0047 LF 8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,166.85	84.20
For Each LF Of Cut-Off Section, Add	86.67	
33 42 13 13-0048 LF 8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,372.44	112.27
For Each LF Of Cut-Off Section, Add	94.90	
33 42 13 13-0049 LF 8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,522.44	112.27
For Each LF Of Cut-Off Section, Add	100.90	
33 42 13 13-0050 LF 8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	2,878.08	140.35
For Each LF Of Cut-Off Section, Add	115.12	
33 42 13 13-0051 LF 9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,546.99	112.27
For Each LF Of Cut-Off Section, Add	101.88	
33 42 13 13-0052 LF 9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,923.22	140.35
For Each LF Of Cut-Off Section, Add	116.93	
33 42 13 13-0053 LF 10' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,890.58	140.35
For Each LF Of Cut-Off Section, Add	115.62	
33 42 13 13-0054 LF 10' x 4' Precast Reinforced Concrete Box Culvert For Roadways	3,068.69	140.35
For Each LF Of Cut-Off Section, Add	122.75	
33 42 13 13-0055 LF 10' x 5' Precast Reinforced Concrete Box Culvert For Roadways	3,302.44	168.42
For Each LF Of Cut-Off Section, Add	132.10	
33 42 13 13-0056 LF 10' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,480.55	168.42
For Each LF Of Cut-Off Section, Add	139.22	
33 42 13 13-0057 LF 10' x 7' Precast Reinforced Concrete Box Culvert For Roadways	3,658.69	168.42
For Each LF Of Cut-Off Section, Add	146.35	
33 42 13 13-0058 LF 10' x 8' Precast Reinforced Concrete Box Culvert For Roadways	3,836.80	168.42
For Each LF Of Cut-Off Section, Add	153.47	
33 42 13 13-0059 LF 12' x 3' Precast Reinforced Concrete Box Culvert For Roadways	3,831.84	196.49
For Each LF Of Cut-Off Section, Add	153.27	
33 42 13 13-0060 LF 12' x 4' Precast Reinforced Concrete Box Culvert For Roadways	4,034.30	196.49
For Each LF Of Cut-Off Section, Add	161.37	
33 42 13 13-0061 LF 12' x 6' Precast Reinforced Concrete Box Culvert For Roadways	4,439.28	196.49
For Each LF Of Cut-Off Section, Add	177.57	
33 42 13 13-0062 LF 12' x 8' Precast Reinforced Concrete Box Culvert For Roadways	4,844.27	196.49
For Each LF Of Cut-Off Section, Add	193.77	
33 42 13 13-0063 LF 16' x 10' Precast Reinforced Concrete Box Culvert For Roadways	5,799.87	224.55
For Each LF Of Cut-Off Section, Add	231.99	
33 42 13 13-0064 LF 24' x 10' Precast Reinforced Concrete Box Culvert For Roadways	7,329.79	224.55
For Each LF Of Cut-Off Section, Add	293.19	

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)

33 42 23 00-0001 Headwalls (33 42 23)

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 42 23 00-0002 Cast In Place Concrete Headwalls (33 42 23 00-0001)

Note: Includes concrete, forms, rebar (where required), finish and curing.

33 42 23 00-0003 Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)

Note: Sized by pipe diameter.

33 42 23 00-0004 EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,662.62	743.26
33 42 23 00-0005 EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,094.19	792.82
33 42 23 00-0006 EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,736.46	1,038.48
33 42 23 00-0007 EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,279.87	1,486.53
33 42 23 00-0008 EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,949.17	1,982.04
33 42 23 00-0009 EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	7,212.95	2,612.55
33 42 23 00-0010 EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	9,927.29	3,603.68
33 42 23 00-0011 EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	11,803.45	4,247.18
33 42 23 00-0012 EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	14,198.28	5,170.59
33 42 23 00-0013 EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	17,035.60	6,259.06

33 42 23 00-0014 Precast Concrete Headwalls (33 42 23 00-0001)

33 42 23 00-0015 EA 12" Pipe, Precast Concrete Headwall	911.09	188.16
33 42 23 00-0016 EA 15" Pipe, Precast Concrete Headwall	942.45	198.61
33 42 23 00-0017 EA 18" Pipe, Precast Concrete Headwall	1,037.30	225.79
33 42 23 00-0018 EA 24" Pipe, Precast Concrete Headwall	1,146.08	240.42
33 42 23 00-0019 EA 30" Pipe, Precast Concrete Headwall	1,540.08	282.24
33 42 23 00-0020 EA 36" Pipe, Precast Concrete Headwall	1,729.79	292.69
33 42 23 00-0021 EA 42" Pipe, Precast Concrete Headwall	2,279.78	346.49

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 23 00-0022	EA	48" Pipe, Precast Concrete Headwall	2,517.49	381.74
33 42 23 00-0023	EA	54" Pipe, Precast Concrete Headwall	2,778.67	404.19
33 42 23 00-0024	EA	60" Pipe, Precast Concrete Headwall	3,153.58	404.19
33 42 23 00-0025	EA	72" Pipe, Precast Concrete Headwall	3,813.59	505.25
33 42 23 00-0026	EA	84" Pipe, Precast Concrete Headwall	5,406.00	606.30
33 42 23 00-0027		Precast Concrete Wingwalls (33 42 23 00-0001)		
33 42 23 00-0028	EA	18" ID Pipe (26" Hole) Precast Concrete Wingwall	5,693.22	2,000.77
		Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029	EA	24" ID Pipe (32" Hole) Precast Concrete Wingwall	6,030.05	2,223.08
		Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030	EA	30" ID Pipe (42" Hole) Precast Concrete Wingwall	6,591.44	2,593.59
		Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031	EA	33" ID Pipe (46" Hole) Precast Concrete Wingwall	7,152.82	2,964.11
		Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032	EA	36" ID Pipe (50" Hole) Precast Concrete Wingwall	7,152.82	2,964.11
		Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033	EA	44" ID Pipe (58" Hole) Precast Concrete Wingwall	7,377.38	3,112.31
		Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034	EA	48" ID Pipe (62" Hole) Precast Concrete Wingwall	12,757.79	3,186.42
		Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035	EA	52" ID Pipe (66" Hole) Precast Concrete Wingwall	13,094.63	3,408.73
		Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0036		Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)		
33 42 23 00-0037	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate.....	3,752.31	785.94
33 42 26		End Sections for Stormwater Piping (33 42)		
33 42 26 16		Corrugated Metal End Sections for Stormwater Piping (33 42 26)		
33 42 26 16-0001		Corrugated Metal Pipe End Sections (33 42 26 16)		
33 42 26 16-0002		Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0003		Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	321.86	73.17
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	376.31	78.40
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	442.71	83.63
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	540.32	91.46
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section.....	599.41	99.31
33 42 26 16-0009		Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	986.81	112.38
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,286.84	134.73
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	1,997.56	157.19
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,445.25	179.65
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	2,908.64	224.55
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section.....	3,393.89	269.46
33 42 26 16-0016		Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)		
		Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.		
33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	337.54	73.17
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	392.44	78.40
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	467.50	83.63
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	570.09	91.46
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	633.15	99.31
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,090.44	112.38
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,416.45	134.73
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,278.54	157.19
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,807.87	179.65
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,275.34	224.55
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,555.32	269.46
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,130.86	404.19
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,978.01	538.93
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	6,515.14	578.22
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	7,065.74	617.52
33 42 26 16-0032		Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)		
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	43.43	
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	48.63	
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	54.99	
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	59.82	
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	67.06	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	118.48	
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	127.45	
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	175.95	
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	188.03	
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	230.06	
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	235.24	
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	250.14	
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	281.56	
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	315.16	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	322.22	
33 42 26 16-0048	Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)			
33 42 26 16-0049	Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)			
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.				
33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	376.31	78.40
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	442.71	83.63
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	540.32	91.46
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	599.41	99.31
33 42 26 16-0054	Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)			
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.				
33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	362.77	78.40
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	417.67	83.63
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	468.64	91.46
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	530.96	99.31
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	791.69	112.38
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,170.51	134.73
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,843.30	157.19
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	2,342.47	179.65
33 42 26 16-0063	Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)			
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.				
33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	369.64	78.40
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	432.61	83.63
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	491.99	91.46
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	558.64	99.31
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	838.73	112.38
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,234.67	134.73
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,945.94	157.19
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,460.58	179.65
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,957.17	224.55
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,897.81	269.46
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	5,428.91	404.19
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	5,974.03	538.93
33 42 26 16-0076	Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)			
33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	48.63	
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	54.99	
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	59.82	
33 42 26 16-0080	EA	Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	67.06	
33 42 26 16-0081	EA	Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	118.48	
33 42 26 16-0082	EA	Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	127.45	
33 42 26 16-0083	EA	Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	175.95	
33 42 26 16-0084	EA	Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	195.80	
33 42 26 16-0085	EA	Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	230.06	
33 42 26 16-0086	EA	Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	238.33	
33 42 26 16-0087	EA	Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	275.33	
33 42 26 16-0088	EA	Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	309.28	
33 42 26 16-0089	Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)			
33 42 26 16-0090	Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)			
33 42 26 16-0091	EA	12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	504.11	73.17
33 42 26 16-0092	EA	15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	583.82	78.40
33 42 26 16-0093	EA	18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	696.66	83.63
33 42 26 16-0094	EA	21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	869.54	91.46
33 42 26 16-0095	EA	24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,145.41	99.31
33 42 26 16-0096	EA	30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,735.28	112.38
33 42 26 16-0097	EA	36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	2,370.85	134.73
33 42 26 16-0098	EA	36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,967.12	134.73
33 42 26 16-0099	EA	42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,791.45	157.19
33 42 26 16-0100	EA	48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	5,432.98	179.65
33 42 26 16-0101	EA	54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	6,005.72	224.55
33 42 26 16-0102	EA	60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section.....	8,110.70	269.46

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	9,139.11	404.19
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	10,657.55	538.93
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	11,644.83	578.22
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,283.89	617.52
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	16,887.71	673.66
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	18,703.04	729.80
33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)		
33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	78.93	
33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	83.84	
33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	91.27	
33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	103.07	
33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	109.16	
33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	140.98	
33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	167.38	
33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	177.34	
33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	194.58	
33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	219.99	
33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	260.68	
33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	370.26	
33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	396.51	
33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	497.70	
33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	538.00	
33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	573.05	
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	610.01	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	647.25	
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	603.10	78.40
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	743.64	83.63
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	807.23	91.46
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	870.77	99.31
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,323.32	112.38
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,398.25	134.73
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,549.43	134.73
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,418.58	157.19
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	5,287.77	179.65
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	6,045.15	224.55
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	7,310.09	269.46
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	12,268.55	404.19
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	12,821.85	538.93
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	13,964.85	578.22
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	14,569.08	617.52
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	15,880.13	673.66
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	16,815.36	729.80
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	83.84	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	91.27	
33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	96.10	
33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	105.33	
33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	119.08	
33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	154.79	
33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	170.67	
33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	194.58	
33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	219.99	
33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	260.68	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	334.94	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	426.07	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	571.62	
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	650.52	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	680.37	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	704.19	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	733.76	
33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	788.19	78.40
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,024.24	83.63
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,259.93	91.46
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,512.64	99.31
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,596.47	112.38
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,094.01	134.73



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	3,344.10	157.19
33 42 26 16-0174		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165) Note: Includes nut and bolt set.		
33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	570.64	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	1,163.94	
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	1,277.36	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	1,326.88	
33 42 26 16-0179		6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	827.34	78.40
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,094.67	83.63
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,467.17	91.46
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,728.03	99.31
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,053.71	112.38
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,497.59	134.73
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	3,849.05	157.19
33 42 26 16-0187		3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165) Note: Includes nut and bolt set.		
33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	1,125.46	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	1,192.69	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	1,311.34	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	1,373.92	
33 42 26 16-0192		Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)		
33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section	94.21	
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section	106.32	
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section	115.78	
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section	129.51	
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section	199.29	
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section	213.95	
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section	289.61	
33 42 26 16-0200		Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201		4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	941.77	83.63
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,188.88	91.46
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	1,412.02	99.31
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section	2,701.15	112.38
33 42 26 16-0206		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200) Note: Includes nut and bolt set.		
33 42 26 16-0207	EA	3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section	682.54	
33 42 26 16-0208	EA	3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section	1,260.12	
33 42 26 16-0209	EA	3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section	1,326.88	
33 42 26 16-0210	EA	3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section	1,962.20	
33 42 26 16-0211		Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212	EA	Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section	95.07	
33 42 26 16-0213	EA	Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section	108.26	
33 42 26 16-0214	EA	Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section	118.04	
33 42 26 16-0215	EA	Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section	139.43	
33 42 26 19		Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)		
33 42 26 19-0001		Corrugated High-Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)		
33 42 26 19-0002	EA	4" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	60.18	21.36
33 42 26 19-0003	EA	6" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	109.48	32.04
33 42 26 19-0004	EA	8" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	147.48	40.05
33 42 26 19-0005	EA	10" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	232.62	64.08
33 42 26 19-0006	EA	12" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	274.89	72.09
33 42 26 19-0007	EA	15" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	292.10	77.43
33 42 26 19-0008	EA	18" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe	345.69	85.44

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 19-0009 EA 24" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	443.62	101.46
33 42 26 19-0010 EA 30" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	882.89	114.81
33 42 26 19-0011 EA 36" End Section, Corrugated High-Density Polyethylene (HDPE) Pipe.....	1,072.93	128.16
33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)		
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)		
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0003 EA 12" Diameter Pipe, Precast Concrete End Section.....	742.15	122.62
33 42 26 23-0004 EA 15" Diameter Pipe, Precast Concrete End Section.....	996.64	151.78
33 42 26 23-0005 EA 18" Diameter Pipe, Precast Concrete End Section.....	1,233.88	192.13
33 42 26 23-0006 EA 21" Diameter Pipe, Precast Concrete End Section.....	1,415.71	229.76
33 42 26 23-0007 EA 24" Diameter Pipe, Precast Concrete End Section.....	1,503.97	265.93
33 42 26 23-0008 EA 27" Diameter Pipe, Precast Concrete End Section.....	1,894.31	334.58
33 42 26 23-0009 EA 30" Diameter Pipe, Precast Concrete End Section.....	2,347.45	502.55
33 42 26 23-0010 EA 36" Diameter Pipe, Precast Concrete End Section.....	2,898.14	634.14
33 42 26 23-0011 EA 42" Diameter Pipe, Precast Concrete End Section.....	3,505.83	795.48
33 42 26 23-0012 EA 48" Diameter Pipe, Precast Concrete End Section.....	3,841.87	897.09
33 42 26 23-0013 EA 54" Diameter Pipe, Precast Concrete End Section.....	4,190.01	1,004.88
33 42 26 23-0014 EA 60" Diameter Pipe, Precast Concrete End Section.....	4,546.91	1,117.15
33 42 26 23-0015 EA 66" Diameter Pipe Precast Concrete End Section.....	4,525.95	891.14
33 42 26 23-0016 EA 72" Diameter Pipe Precast Concrete End Section.....	5,181.04	1,113.89
33 42 26 23-0017 EA 78" Diameter Pipe Precast Concrete End Section.....	6,158.04	1,392.37
33 42 26 23-0018 EA 84" Diameter Pipe Precast Concrete End Section.....	7,285.90	1,670.84
33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0020 EA 12" Diameter Pipe, Flared Precast Concrete End Section.....	935.26	130.80
33 42 26 23-0021 EA 15" Diameter Pipe, Flared Precast Concrete End Section.....	1,126.21	163.03
33 42 26 23-0022 EA 18" Diameter Pipe, Flared Precast Concrete End Section.....	1,367.11	206.37
33 42 26 23-0023 EA 21" Diameter Pipe, Flared Precast Concrete End Section.....	1,561.98	246.78
33 42 26 23-0024 EA 24" Diameter Pipe, Flared Precast Concrete End Section.....	1,906.22	285.64
33 42 26 23-0025 EA 27" Diameter Pipe, Flared Precast Concrete End Section.....	2,297.01	456.18
33 42 26 23-0026 EA 30" Diameter Pipe, Flared Precast Concrete End Section.....	2,387.31	628.07
33 42 26 23-0027 EA 36" Diameter Pipe, Flared Precast Concrete End Section.....	3,226.46	792.67
33 42 26 23-0028 EA 42" Diameter Pipe, Flared Precast Concrete End Section.....	3,871.00	994.55
33 42 26 23-0029 EA 48" Diameter Pipe, Flared Precast Concrete End Section.....	4,187.85	1,121.65
33 42 26 23-0030 EA 54" Diameter Pipe, Flared Precast Concrete End Section.....	4,684.13	1,256.27
33 42 26 23-0031 EA 60" Diameter Pipe, Flared Precast Concrete End Section.....	5,189.73	1,395.38
33 42 26 23-0032 EA 66" Diameter Pipe, Flared Precast Concrete End Section.....	6,053.53	1,607.70
33 42 26 23-0033 EA 72" Diameter Pipe, Flared Precast Concrete End Section.....	7,062.00	1,794.40
33 42 26 23-0034 EA 78" Diameter Pipe, Flared Precast Concrete End Section.....	8,008.32	2,018.63
33 42 26 23-0035 EA 84" Diameter Pipe, Flared Precast Concrete End Section.....	9,239.42	2,242.62
33 42 31 Stormwater Area Drains and Inlets (33 42)		
33 42 31 00-0001 Storm Drains (33 42 31)		
See CSI section 33 05 61 00-0001 for manhole structures.		
33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)		
Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0005 EA 2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	1,939.60	365.58
33 42 31 00-0006 EA 3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,314.47	428.34
33 42 31 00-0007 EA 4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,689.34	491.00
33 42 31 00-0008 EA 5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,064.21	553.76
33 42 31 00-0009 EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,439.08	616.42
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0011 EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,470.77	363.38
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,062.96	484.50
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,919.18	660.68
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,767.17	770.80
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	5,446.96	880.90
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	2,654.40	396.40
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	3,676.12	550.57
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	4,501.30	715.73
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	5,198.36	825.85
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin.....	6,595.70	1,057.09



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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0022	Cast In Place, Catch Basin (33 42 31 00-0002) Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
33 42 31 00-0023	3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0024	EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,429.40	441.99
33 42 31 00-0025	EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,577.23	469.96
33 42 31 00-0026	EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,817.17	504.76
33 42 31 00-0027	EA 4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,164.85	558.72
33 42 31 00-0028	EA 5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,414.14	594.72
33 42 31 00-0029	EA 5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,576.27	623.68
33 42 31 00-0030	EA 6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,825.76	659.69
33 42 31 00-0031	EA 6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,983.60	688.76
33 42 31 00-0032	EA 7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,235.45	724.66
33 42 31 00-0033	EA 7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,395.22	753.72
33 42 31 00-0034	EA 8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,644.61	789.74
33 42 31 00-0035	VLF >8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	580.60	98.66
33 42 31 00-0036	3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0037	EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,796.14	510.93
33 42 31 00-0038	EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,983.64	546.82
33 42 31 00-0039	EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,233.36	582.83
33 42 31 00-0040	EA 4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,639.84	645.49
33 42 31 00-0041	EA 5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,913.65	686.22
33 42 31 00-0042	EA 5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,100.10	720.03
33 42 31 00-0043	EA 6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,377.98	760.77
33 42 31 00-0044	EA 6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,564.42	794.58
33 42 31 00-0045	EA 7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,840.49	835.31
33 42 31 00-0046	EA 7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,026.40	869.12
33 42 31 00-0047	EA 8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,302.57	909.87
33 42 31 00-0048	VLF >8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	662.84	113.75
33 42 31 00-0049	4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0050	EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,189.10	584.49
33 42 31 00-0051	EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,386.39	621.59
33 42 31 00-0052	EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,673.41	665.52
33 42 31 00-0053	EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,139.36	736.99
33 42 31 00-0054	EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,441.68	782.47
33 42 31 00-0055	EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,654.15	821.12
33 42 31 00-0056	EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,956.47	866.60
33 42 31 00-0057	EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,169.48	905.24
33 42 31 00-0058	EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,471.79	950.72
33 42 31 00-0059	EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,684.26	989.37
33 42 31 00-0060	EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,986.58	1,034.95
33 42 31 00-0061	VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	748.28	129.38
33 42 31 00-0062	4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0063	EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,699.73	677.74
33 42 31 00-0064	EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,931.60	716.07
33 42 31 00-0065	EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,251.50	765.62
33 42 31 00-0066	EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,783.15	846.88
33 42 31 00-0067	EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,120.81	898.19
33 42 31 00-0068	EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,368.76	942.57
33 42 31 00-0069	EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,705.90	993.88
33 42 31 00-0070	EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,953.84	1,038.37
33 42 31 00-0071	EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,291.52	1,089.68
33 42 31 00-0072	EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,537.08	1,134.05
33 42 31 00-0073	EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,876.58	1,185.37
33 42 31 00-0074	VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	859.62	148.21
33 42 31 00-0075	5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076	EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,760.86	859.66
33 42 31 00-0077	EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,353.17	949.95
33 42 31 00-0078	EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,719.78	1,006.21
33 42 31 00-0079	EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,994.30	1,055.54
33 42 31 00-0080	EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,356.74	1,111.70
33 42 31 00-0081	EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,633.62	1,161.04
33 42 31 00-0082	EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,997.87	1,217.30
33 42 31 00-0083	EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,270.57	1,266.64
33 42 31 00-0084	EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,637.18	1,322.80
33 42 31 00-0085	VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,335.70	165.40
33 42 31 00-0086	5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087	EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,295.18	958.65
33 42 31 00-0088	EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,184.13	1,085.18
33 42 31 00-0089	EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,592.32	1,147.71

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,908.41	1,203.76
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,318.43	1,266.74
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,636.88	1,322.80
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,045.08	1,385.77
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,361.17	1,441.82
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,769.36	1,504.81
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,096.16	188.07
33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin.....	5,858.01	1,062.26
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	6,838.15	1,201.12
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,275.94	1,269.17
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	7,622.18	1,330.27
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,057.61	1,398.33
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,405.65	1,459.44
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,841.62	1,527.49
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,187.32	1,588.60
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,625.10	1,656.66
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,203.19	207.12
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	6,445.14	1,170.84
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	7,817.77	1,356.49
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,301.60	1,431.80
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	8,695.55	1,500.19
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,179.37	1,575.39
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,573.34	1,643.88
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	10,057.16	1,719.09
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	10,451.12	1,787.47
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	10,936.76	1,862.79
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,367.04	232.89
33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin.....	7,059.18	1,284.14
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	8,563.14	1,486.75
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,077.21	1,567.35
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	9,499.73	1,640.91
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,016.05	1,721.40
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,438.57	1,795.07
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,952.64	1,875.55
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	11,377.51	1,949.22
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	11,891.49	2,029.72
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,486.50	253.70
33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin.....	8,039.33	1,441.27
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,338.87	1,622.29
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	9,881.38	1,708.08
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	10,336.52	1,786.92
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	10,881.28	1,872.70
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	11,336.42	1,951.53
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	11,878.93	2,037.31
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	12,334.06	2,116.16
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	12,878.94	2,201.94
33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin.....	1,609.83	275.28
33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin.....	8,738.98	1,568.12
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,142.91	1,763.14
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	10,716.33	1,854.09
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	11,201.72	1,938.22
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	11,775.04	2,029.16
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	12,255.71	2,113.29
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	12,833.74	2,204.25
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	13,319.14	2,288.37
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	13,882.67	2,379.33
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin.....	1,736.55	297.41
33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins.....	736.67	229.03
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins.....	1,025.20	343.55



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 42 31 00-0156	EA	8' Deep, 1'-6" Diameter Precast Catch Basins.....	1,299.56		446.60
33 42 31 00-0157	EA	10' Deep, 1'-6" Diameter Precast Catch Basins.....	1,556.19		527.91
33 42 31 00-0158	EA	12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,916.82		669.90
33 42 31 00-0159	EA	14' Deep, 1'-6" Diameter Precast Catch Basins.....	2,192.96		772.97
33 42 31 00-0160	VLF	Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	152.77		51.53
33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0162	EA	4' Deep, 2' Diameter Precast Catch Basin.....	839.30		254.80
33 42 31 00-0163	EA	6' Deep, 2' Diameter Precast Catch Basin.....	1,161.61		377.90
33 42 31 00-0164	EA	8' Deep, 2' Diameter Precast Catch Basin.....	1,466.70		498.14
33 42 31 00-0165	EA	10' Deep, 2' Diameter Precast Catch Basin	1,750.71		581.16
33 42 31 00-0166	EA	12' Deep, 2' Diameter Precast Catch Basin	2,169.49		744.34
33 42 31 00-0167	EA	14' Deep, 2' Diameter Precast Catch Basin	2,478.90		858.86
33 42 31 00-0168	VLF	Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	172.74		61.84
33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0170	EA	4' Deep, 3' Diameter Precast Catch Basin.....	1,107.06		300.60
33 42 31 00-0171	EA	6' Deep, 3' Diameter Precast Catch Basin	1,511.58		444.31
33 42 31 00-0172	EA	8' Deep, 3' Diameter Precast Catch Basin	1,899.56		586.88
33 42 31 00-0173	EA	10' Deep, 3' Diameter Precast Catch Basin	2,365.73		732.89
33 42 31 00-0174	EA	12' Deep, 3' Diameter Precast Catch Basin	2,794.67		873.75
33 42 31 00-0175	EA	14' Deep, 3' Diameter Precast Catch Basin	3,208.85		1,016.88
33 42 31 00-0176	VLF	Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	220.80		72.63
33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0178	EA	4' Deep, 4' Diameter Precast Catch Basin.....	1,338.70		334.38
33 42 31 00-0179	EA	6' Deep, 4' Diameter Precast Catch Basin	1,741.52		458.05
33 42 31 00-0180	EA	8' Deep, 4' Diameter Precast Catch Basin.....	2,333.39		687.08
33 42 31 00-0181	EA	10' Deep, 4' Diameter Precast Catch Basin	2,911.76		858.86
33 42 31 00-0182	EA	12' Deep, 4' Diameter Precast Catch Basin	3,442.19		1,030.63
33 42 31 00-0183	EA	14' Deep, 4' Diameter Precast Catch Basin	3,956.12		1,202.39
33 42 31 00-0184	VLF	Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	271.56		85.89
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0186	EA	4' Deep, 5' Diameter Precast Catch Basin.....	1,802.36		458.05
33 42 31 00-0187	EA	6' Deep, 5' Diameter Precast Catch Basin	2,468.60		687.08
33 42 31 00-0188	EA	8' Deep, 5' Diameter Precast Catch Basin	3,138.22		916.11
33 42 31 00-0189	EA	10' Deep, 5' Diameter Precast Catch Basin	3,838.28		1,145.15
33 42 31 00-0190	EA	12' Deep, 5' Diameter Precast Catch Basin	4,528.20		1,374.17
33 42 31 00-0191	EA	14' Deep, 5' Diameter Precast Catch Basin	5,270.46		1,603.20
33 42 31 00-0192	VLF	Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	361.30		114.52
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)					
33 42 31 00-0194	EA	4' Deep, 6' Diameter Precast Catch Basin.....	2,637.63		687.08
33 42 31 00-0195	EA	6' Deep, 6' Diameter Precast Catch Basin	3,577.40		1,030.63
33 42 31 00-0196	EA	8' Deep, 6' Diameter Precast Catch Basin	4,582.28		1,374.17
33 42 31 00-0197	EA	10' Deep, 6' Diameter Precast Catch Basin	5,710.95		1,717.71
33 42 31 00-0198	EA	12' Deep, 6' Diameter Precast Catch Basin	6,805.81		2,061.25
33 42 31 00-0199	EA	14' Deep, 6' Diameter Precast Catch Basin	7,875.82		2,404.80
33 42 31 00-0200	VLF	Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	538.60		171.77
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)					
33 42 31 00-0202	EA	Single Or Double Wing Slab Top With Throat	1,597.34		744.34
33 42 31 00-0203	EA	4' x 4' Weir Box, Precast Catch Basin.....	729.38		91.61
33 42 31 00-0204	EA	4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	410.98		97.34
33 42 31 00-0205	EA	3' Diameter, Up To 6" High, Precast Extension Ring	512.85		143.14
		For Each Additional Inch In Height, Add	61.60		
33 42 31 00-0206	EA	4' Diameter, Up To 6" High, Precast Extension Ring	605.00		171.77
		For Each Additional Inch In Height, Add	72.18		
33 42 31 00-0207	EA	5' Diameter, Up To 6" High, Precast Extension Ring	705.65		200.40
		For Each Additional Inch In Height, Add	84.25		
33 42 31 00-0208	EA	6' Diameter, Up To 6" High, Precast Extension Ring	884.06		286.29
		For Each Additional Inch In Height, Add	99.68		
33 42 31 00-0209	EA	Adjust Existing Catch Basin Inlet Grate To Match Grade	687.04		
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)					
33 42 31 00-0211	EA	Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser	426.21		
33 42 31 00-0212	EA	>860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	476.11		
33 42 31 00-0213	EA	>1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	535.46		
33 42 31 00-0214	EA	Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	458.86		
33 42 31 00-0215	EA	>860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	512.12		
33 42 31 00-0216	EA	>1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	577.90		
33 42 31 00-0217	EA	Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	507.74		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	555.04	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	621.03	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,105.91	871.88
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,840.86	994.98
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	6,674.79	1,129.21
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	8,005.96	1,354.61
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	9,759.50	1,635.41
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	919.09	80.16
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,079.90	97.34
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,240.72	114.52
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,402.97	132.40
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	223.80	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	367.44	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	522.52	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	677.61	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	832.70	
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	987.80	
33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,871.06	224.55
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,103.29	259.64
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,335.52	294.73
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,567.92	329.90
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,800.32	365.07
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	3,032.72	400.24
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	3,265.13	435.41
33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	437.73	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	715.16	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	772.47	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	991.79	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,211.09	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,421.47	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,653.70	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	1,885.93	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,118.33	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,350.73	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,583.13	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser.....	2,815.54	
33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		
33 42 31 00-0265 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,797.57	247.01
33 42 31 00-0266 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,029.45	285.60
33 42 31 00-0267 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,261.32	324.20
33 42 31 00-0268 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,493.38	362.89
33 42 31 00-0269 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,725.45	401.57
33 42 31 00-0270 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,957.51	440.26
33 42 31 00-0271 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	3,189.57	478.95
33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273 EA 6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	433.00	
33 42 31 00-0274 EA 12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	699.82	
33 42 31 00-0275 EA 18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	758.23	
33 42 31 00-0276 EA 24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	972.42	
33 42 31 00-0277 EA 30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser.....	1,186.61	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 31 00-0278	EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,399.68			
33 42 31 00-0279	EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,628.46			
33 42 31 00-0280	EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,856.14			
33 42 31 00-0281	EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,084.92			
33 42 31 00-0282	EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,312.58			
33 42 31 00-0283	EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,541.38			
33 42 31 00-0284	EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,770.16			
33 42 31 00-0285	42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
33 42 31 00-0286	42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)				
33 42 31 00-0287	EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,143.37		269.46	
33 42 31 00-0288	EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,415.93		313.25	
33 42 31 00-0289	EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,688.49		358.17	
33 42 31 00-0290	EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box	2,959.91		401.95	
33 42 31 00-0291	EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box	3,232.47		446.86	
33 42 31 00-0292	EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box	3,505.03		490.65	
33 42 31 00-0293	EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box	3,776.45		534.44	
33 42 31 00-0294	42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)				
33 42 31 00-0295	EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	480.12			
33 42 31 00-0296	EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	791.84			
33 42 31 00-0297	EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	851.91			
33 42 31 00-0298	EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,095.83			
33 42 31 00-0299	EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,339.76			
33 42 31 00-0300	EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,583.67			
33 42 31 00-0301	EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,842.76			
33 42 31 00-0302	EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,101.84			
33 42 31 00-0303	EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,360.92			
33 42 31 00-0304	EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,620.00			
33 42 31 00-0305	EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,879.09			
33 42 31 00-0306	EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	3,138.17			
33 42 31 00-0307	42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)				
33 42 31 00-0308	EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab	1,212.44		168.42	
33 42 31 00-0309	48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
33 42 31 00-0310	48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)				
33 42 31 00-0311	EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,059.56		299.41	
33 42 31 00-0312	EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,426.08		348.62	
33 42 31 00-0313	EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box	3,792.60		397.83	
33 42 31 00-0314	EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box	4,158.76		446.86	
33 42 31 00-0315	EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box	4,524.92		495.90	
33 42 31 00-0316	EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box	4,891.09		544.93	
33 42 31 00-0317	EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box	5,257.26		593.96	
33 42 31 00-0318	48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)				
33 42 31 00-0319	EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	481.43			
33 42 31 00-0320	EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	779.45			
33 42 31 00-0321	EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,141.12			
33 42 31 00-0322	EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,502.77			
33 42 31 00-0323	EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	1,845.73			
33 42 31 00-0324	EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,207.39			
33 42 31 00-0325	EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,573.91			
33 42 31 00-0326	EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	2,940.43			
33 42 31 00-0327	EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,306.60			
33 42 31 00-0328	EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	3,672.75			
33 42 31 00-0329	EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	4,038.92			
33 42 31 00-0330	EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser	4,405.09			
33 42 31 00-0331	48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)				
33 42 31 00-0332	EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab	1,317.86		182.45	
33 42 31 00-0333	48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)				
33 42 31 00-0334	48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)				
33 42 31 00-0335	EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,519.90		377.25	
33 42 31 00-0336	EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box	3,920.91		440.28	
33 42 31 00-0337	EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,321.91		503.31	
33 42 31 00-0338	EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box	4,722.21		565.99	
33 42 31 00-0339	EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,122.52		628.67	
33 42 31 00-0340	EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,522.83		691.35	
33 42 31 00-0341	EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box	5,923.13		754.04	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0342		48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343	EA	6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	526.44	
33 42 31 00-0344	EA	12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	832.83	
33 42 31 00-0345	EA	18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,233.51	
33 42 31 00-0346	EA	24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,634.21	
33 42 31 00-0347	EA	30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,003.47	
33 42 31 00-0348	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,404.16	
33 42 31 00-0349	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,805.16	
33 42 31 00-0350	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,206.17	
33 42 31 00-0351	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,606.47	
33 42 31 00-0352	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	4,006.77	
33 42 31 00-0353	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	4,407.09	
33 42 31 00-0354	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	4,807.39	
33 42 31 00-0355		48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)		
33 42 31 00-0356	EA	48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,464.81	204.34
33 42 31 00-0357		42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0358		42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)		
33 42 31 00-0359	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,400.19	508.61
33 42 31 00-0360	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box	4,906.72	592.82
33 42 31 00-0361	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,413.25	675.91
33 42 31 00-0362	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box	5,918.65	760.11
33 42 31 00-0363	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box	6,425.18	843.20
33 42 31 00-0364	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box	6,930.58	926.29
33 42 31 00-0365	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box	7,438.23	1,010.49
33 42 31 00-0366		42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)		
33 42 31 00-0367	EA	6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	701.89	
33 42 31 00-0368	EA	12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,091.65	
33 42 31 00-0369	EA	18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	1,590.32	
33 42 31 00-0370	EA	24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,088.99	
33 42 31 00-0371	EA	30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	2,555.10	
33 42 31 00-0372	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,053.76	
33 42 31 00-0373	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	3,560.30	
33 42 31 00-0374	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,066.83	
33 42 31 00-0375	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	4,572.22	
33 42 31 00-0376	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	5,078.76	
33 42 31 00-0377	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	5,584.15	
33 42 31 00-0378	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser.....	6,090.69	
33 42 31 00-0379		42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)		
33 42 31 00-0380	EA	42" x 102" ID, Precast Concrete Inlet Box Top Slab	2,009.90	224.55
33 42 31 00-0381		Frames And Grates For Inlets (33 42 31 00-0226)		
33 42 31 00-0382		Inlet Frames And Grates (33 42 31 00-0381)		
33 42 31 00-0383	EA	24" x 24", Heavy-Duty Inlet Grate	424.61	52.27
		Note: For type A, B, D, or E inlets.		
33 42 31 00-0384	EA	47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)	551.86	52.27
		Note: For type A, B, D, or E inlets.		
33 42 31 00-0385	EA	47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)	551.86	52.27
		Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT)	551.86	52.27
		Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	605.12	52.27
33 42 31 00-0388	EA	Type B Inlet Dirt Plate (US Foundry 5217 BK)	443.38	104.53
33 42 31 00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942)	517.93	104.53
33 42 31 00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4)	644.76	130.66
		Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".		
33 42 31 00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	548.90	130.66
33 42 31 00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	559.55	130.66
33 42 31 00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	580.85	130.66
33 42 31 00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	602.15	130.66
33 42 31 00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	580.85	130.66
33 42 31 00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	602.15	130.66
33 42 31 00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	623.46	130.66
33 42 31 00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	900.37	130.66
33 42 31 00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	942.98	130.66
33 42 31 00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	985.58	130.66
33 42 31 00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701)	666.06	130.66
33 42 31 00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6)	602.15	130.66



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8)	602.15	130.66
33 42 31 00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6)	1,243.07	130.66
33 42 31 00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8)	1,243.07	130.66
33 42 31 00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB)	500.48	143.73
33 42 31 00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)	702.84	143.73
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.				
33 42 31 00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)	702.84	143.73
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.				
33 42 31 00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)	777.39	143.73
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.				
33 42 31 00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM)	894.55	143.73
33 42 31 00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM)	766.74	143.73
33 42 31 00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202)	1,096.92	143.73
33 42 31 00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002)	969.11	143.73
33 42 31 00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340)	1,248.89	209.06
33 42 31 00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342)	2,015.74	209.06
33 42 31 00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340)	1,216.94	209.06
33 42 31 00-0417	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342)	1,915.63	209.06
33 42 31 00-0418	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340)	2,043.74	313.59
33 42 31 00-0419	EA	Heavy-Duty Rectangular Frame And Grate (Campbell Foundry 3084)	2,091.98	418.13
33 42 31 00-0420	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186)	2,295.41	418.13
33 42 31 00-0421	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198)	2,295.41	418.13
33 42 31 00-0422	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266)	2,029.14	418.13
33 42 31 00-0423	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268)	2,029.14	418.13
33 42 31 00-0424	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198)	2,380.62	418.13
33 42 31 00-0425	Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)			
33 42 31 00-0426	Type OS Concrete Drainage Inlet Structure (33 42 31 00-0425)			
33 42 31 00-0427	EA	3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	2,850.14	
33 42 31 00-0428	EA	4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,312.00	
33 42 31 00-0429	EA	5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,741.13	
33 42 31 00-0430	EA	6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,137.53	
33 42 31 00-0431	EA	7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,501.19	
33 42 31 00-0432	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,832.12	
33 42 31 00-0433	EA	8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	6,575.13	
33 42 31 00-0434	EA	10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,666.27	
33 42 31 00-0435	EA	12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,673.87	
33 42 31 00-0436	EA	14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,600.20	
33 42 31 00-0437	EA	16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	10,493.02	
33 42 31 00-0438	EA	18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	11,314.63	
33 42 31 00-0439	EA	20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	12,065.05	
33 42 31 00-0440	Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)			
33 42 31 00-0441	EA	3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,881.04	
33 42 31 00-0442	EA	4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,312.97	
33 42 31 00-0443	EA	5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,712.19	
33 42 31 00-0444	EA	6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,078.66	
33 42 31 00-0445	EA	7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,411.25	
33 42 31 00-0446	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,712.26	
33 42 31 00-0447	EA	8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,403.49	
33 42 31 00-0448	EA	10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,469.24	
33 42 31 00-0449	EA	12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,451.43	
33 42 31 00-0450	EA	14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,351.22	
33 42 31 00-0451	EA	16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,222.10	
33 42 31 00-0452	EA	18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,021.79	
33 42 31 00-0453	EA	20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,750.29	
33 42 31 00-0454	Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)			
33 42 31 00-0455	EA	3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,831.08	
33 42 31 00-0456	EA	4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,235.68	
33 42 31 00-0457	EA	5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,606.43	
33 42 31 00-0458	EA	6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,945.57	
33 42 31 00-0459	EA	7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,250.84	
33 42 31 00-0460	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,523.36	
33 42 31 00-0461	EA	8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,231.86	
33 42 31 00-0462	EA	10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,271.07	
33 42 31 00-0463	EA	12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,228.99	
33 42 31 00-0464	EA	14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,103.38	
33 42 31 00-0465	EA	16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,951.19	
33 42 31 00-0466	EA	18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,728.96	
33 42 31 00-0467	EA	20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,434.38	
33 42 31 00-0468	Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0425)			
33 42 31 00-0469	EA	3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,185.39	
33 42 31 00-0470	EA	4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,549.71	
33 42 31 00-0471	EA	5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,881.29	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0472	EA	6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,180.13
33 42 31 00-0473	EA	7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,446.24
33 42 31 00-0474	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,679.62
33 42 31 00-0475	EA	8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,405.37
33 42 31 00-0476	EA	10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,408.48
33 42 31 00-0477	EA	12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,329.21
33 42 31 00-0478	EA	14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,167.51
33 42 31 00-0479	EA	16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,985.31
33 42 31 00-0480	EA	18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,730.78
33 42 31 00-0481	EA	20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,405.05

33 42 31 00-0482 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0483	EA	3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,934.46
33 42 31 00-0484	EA	4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,218.59
33 42 31 00-0485	EA	5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,470.00
33 42 31 00-0486	EA	6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,688.67
33 42 31 00-0487	EA	7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	9,873.46
33 42 31 00-0488	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,026.65
33 42 31 00-0489	EA	8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,700.63
33 42 31 00-0490	EA	10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,632.67
33 42 31 00-0491	EA	12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,482.31
33 42 31 00-0492	EA	14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,249.53
33 42 31 00-0493	EA	16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,005.89
33 42 31 00-0494	EA	18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,689.93
33 42 31 00-0495	EA	20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,302.75

33 42 31 00-0496 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0497	EA	3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,709.79
33 42 31 00-0498	EA	4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,186.63
33 42 31 00-0499	EA	5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,625.91
33 42 31 00-0500	EA	6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,027.64
33 42 31 00-0501	EA	7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,392.93
33 42 31 00-0502	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,721.82
33 42 31 00-0503	EA	8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,559.75
33 42 31 00-0504	EA	10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,746.77
33 42 31 00-0505	EA	12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,841.12
33 42 31 00-0506	EA	14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,841.68
33 42 31 00-0507	EA	16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,811.82
33 42 31 00-0508	EA	18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,701.89
33 42 31 00-0509	EA	20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,510.72

33 42 31 00-0510 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0511	EA	3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,740.69
33 42 31 00-0512	EA	4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,186.46
33 42 31 00-0513	EA	5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,595.82
33 42 31 00-0514	EA	6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,968.76
33 42 31 00-0515	EA	7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,304.13
33 42 31 00-0516	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,601.96
33 42 31 00-0517	EA	8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,439.89
33 42 31 00-0518	EA	10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,599.26
33 42 31 00-0519	EA	12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,665.98
33 42 31 00-0520	EA	14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,640.06
33 42 31 00-0521	EA	16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,586.26
33 42 31 00-0522	EA	18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,452.38
33 42 31 00-0523	EA	20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,238.42

33 42 31 00-0524 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0525	EA	3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	1,920.30
33 42 31 00-0526	EA	4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,296.29
33 42 31 00-0527	EA	5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,644.88
33 42 31 00-0528	EA	6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,968.39
33 42 31 00-0529	EA	7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,266.79
33 42 31 00-0530	EA	8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,537.80

33 42 31 00-0531 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0532	EA	3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,648.00
33 42 31 00-0533	EA	4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,070.69
33 42 31 00-0534	EA	5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,463.46
33 42 31 00-0535	EA	6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,826.30
33 42 31 00-0536	EA	7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,159.23
33 42 31 00-0537	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,461.07
33 42 31 00-0538	EA	8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,040.15
33 42 31 00-0539	EA	10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,046.88
33 42 31 00-0540	EA	12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,977.83
33 42 31 00-0541	EA	14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,833.02



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0542	EA	16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,657.34	
33 42 31 00-0543	EA	18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,416.23	
33 42 31 00-0544	EA	20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,108.54	
33 42 31 00-0545 Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0546	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,082.01	
33 42 31 00-0547	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,452.81	
33 42 31 00-0548	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,797.37	
33 42 31 00-0549	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,116.83	
33 42 31 00-0550	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,408.89	
33 42 31 00-0551	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,675.86	
33 42 31 00-0552 Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0553	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,567.14	
33 42 31 00-0554	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,992.43	
33 42 31 00-0555	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,387.79	
33 42 31 00-0556	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,752.08	
33 42 31 00-0557	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,087.61	
33 42 31 00-0558	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,392.06	
33 42 31 00-0559	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,005.64	
33 42 31 00-0560	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,014.23	
33 42 31 00-0561	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,945.92	
33 42 31 00-0562	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,801.82	
33 42 31 00-0563	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,626.73	
33 42 31 00-0564	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,386.19	
33 42 31 00-0565	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,080.23	
33 42 31 00-0566 Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0567	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,648.00	
33 42 31 00-0568	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,070.69	
33 42 31 00-0569	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,463.46	
33 42 31 00-0570	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,826.30	
33 42 31 00-0571	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,159.23	
33 42 31 00-0572	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,461.07	
33 42 31 00-0573	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,040.15	
33 42 31 00-0574	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,046.88	
33 42 31 00-0575	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	7,977.83	
33 42 31 00-0576	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,833.02	
33 42 31 00-0577	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,657.34	
33 42 31 00-0578	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,416.23	
33 42 31 00-0579	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,108.54	
33 42 31 00-0580 Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0581	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,061.80	
33 42 31 00-0582	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,432.96	
33 42 31 00-0583	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,779.02	
33 42 31 00-0584	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,097.70	
33 42 31 00-0585	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,391.27	
33 42 31 00-0586	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,658.60	
33 42 31 00-0587 Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0588	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,102.23	
33 42 31 00-0589	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,472.66	
33 42 31 00-0590	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,816.85	
33 42 31 00-0591	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,134.81	
33 42 31 00-0592	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,426.51	
33 42 31 00-0593	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,693.12	
33 42 31 00-0594 Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0595	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,517.18	
33 42 31 00-0596	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,096.91	
33 42 31 00-0597	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,675.63	
33 42 31 00-0598	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,133.75	
33 42 31 00-0599	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,589.74	
33 42 31 00-0600	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,005.64	
33 42 31 00-0601 Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0425)				
33 42 31 00-0602	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,265.09	
33 42 31 00-0603	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,896.27	
33 42 31 00-0604	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,481.23	
33 42 31 00-0605	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,021.13	
33 42 31 00-0606	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,514.81	
33 42 31 00-0607	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,963.43	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0608	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,319.08	
33 42 31 00-0609	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,803.33	
33 42 31 00-0610	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,174.15	
33 42 31 00-0611	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,432.67	
33 42 31 00-0612	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,647.60	
33 42 31 00-0613	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,764.45	
33 42 31 00-0614	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,783.23	

33 42 31 00-0615 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0616	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,496.97	
33 42 31 00-0617	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,077.05	
33 42 31 00-0618	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,617.03	
33 42 31 00-0619	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,115.77	
33 42 31 00-0620	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,572.12	
33 42 31 00-0621	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,988.38	

33 42 31 00-0622 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0623	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,406.58	
33 42 31 00-0624	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,032.94	
33 42 31 00-0625	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,614.22	
33 42 31 00-0626	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,149.30	
33 42 31 00-0627	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,639.29	
33 42 31 00-0628	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,084.23	
33 42 31 00-0629	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,336.34	
33 42 31 00-0630	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,820.23	
33 42 31 00-0631	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,190.68	
33 42 31 00-0632	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,447.69	
33 42 31 00-0633	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,662.33	
33 42 31 00-0634	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,778.89	
33 42 31 00-0635	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,797.38	

33 42 31 00-0636 Type GO Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0637	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,506.50	
33 42 31 00-0638	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,914.17	
33 42 31 00-0639	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,292.63	
33 42 31 00-0640	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,641.91	
33 42 31 00-0641	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,961.97	
33 42 31 00-0642	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,253.99	
33 42 31 00-0643	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	5,850.31	
33 42 31 00-0644	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,827.06	
33 42 31 00-0645	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,728.49	
33 42 31 00-0646	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,556.88	
33 42 31 00-0647	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,356.86	
33 42 31 00-0648	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,091.53	
33 42 31 00-0649	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,763.21	

33 42 31 00-0650 Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0425)

33 42 31 00-0651	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,274.62	
33 42 31 00-0652	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,810.50	
33 42 31 00-0653	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,308.17	
33 42 31 00-0654	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,768.77	
33 42 31 00-0655	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,190.02	
33 42 31 00-0656	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,574.19	
33 42 31 00-0657	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,524.29	
33 42 31 00-0658	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,783.21	
33 42 31 00-0659	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,946.59	
33 42 31 00-0660	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,015.57	
33 42 31 00-0661	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,046.45	
33 42 31 00-0662	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,994.72	
33 42 31 00-0663	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	13,860.37	

33 42 31 00-0664 Catch Basin Frames And Covers (33 42 31 00-0001)**33 42 31 00-0665 Cast Iron Frames And Covers (33 42 31 00-0664)**

33 42 31 00-0666	EA	18" Diameter Cast Iron Catch Basin Frame And Cover	1,212.00	114.52
33 42 31 00-0667	EA	22" Diameter Cast Iron Catch Basin Frame And Cover	1,547.12	129.40
33 42 31 00-0668	EA	24" Diameter Cast Iron Catch Basin Frame And Cover	1,763.85	133.98
33 42 31 00-0669	EA	26" Diameter Cast Iron Catch Basin Frame And Cover	1,992.70	155.74
33 42 31 00-0670	EA	28" Diameter Cast Iron Catch Basin Frame And Cover	2,352.72	177.49
33 42 31 00-0671	EA	32" Diameter Cast Iron Catch Basin Frame And Cover	3,811.80	185.51
33 42 31 00-0672	EA	16" x 16" Cast Iron Catch Basin Frame And Cover	2,043.81	140.85
33 42 31 00-0673	EA	18" x 24" Cast Iron Catch Basin Frame And Cover	2,683.09	162.61
33 42 31 00-0674	EA	20" x 27" Cast Iron Catch Basin Frame And Cover	3,046.02	169.48
33 42 31 00-0675	EA	23" x 23" Cast Iron Catch Basin Frame And Cover	2,870.20	169.48
33 42 31 00-0676	EA	24" x 24" Cast Iron Catch Basin Frame And Cover	2,965.39	176.35



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0677	EA	26" x 26" Cast Iron Catch Basin Frame And Cover	3,189.49	183.22	
33 42 31 00-0678	EA	24" x 36" Cast Iron Catch Basin Frame And Cover	3,853.70	196.96	
33 42 31 00-0679		Area Yard Drain (33 42 31 00-0001)			
33 42 31 00-0680		Ductile Iron Grates (33 42 31 00-0679) Note: Not for traffic loading.			
33 42 31 00-0681	EA	8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	162.44	40.05	
33 42 31 00-0682	EA	10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	198.09	42.72	
33 42 31 00-0683	EA	12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	453.33	53.40	
33 42 31 00-0684	EA	15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	541.73	64.08	
33 42 33		Stormwater Curbside Drains and Inlets (33 42)			
33 42 33 00-0001		Curb Inlet Frames And Covers (33 42 33)			
33 42 33 00-0002		Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)			
33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	2,571.09	133.98	
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	2,746.37	155.74	
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	2,861.56	155.74	
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	3,132.92	183.22	
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	3,091.59	195.82	
33 42 36		Stormwater Trench Drains (33 42)			
33 42 36 00-0001		Modular Trench Drains (33 42 36) See CSI section 03 31 13 00-0011 for concrete.			
33 42 36 00-0002		Modular Trench Drains (33 42 36 00-0001) Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.			
33 42 36 00-0003		4" Wide, Modular Trench Drains (33 42 36 00-0002)			
33 42 36 00-0004		4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0003)			
33 42 36 00-0005		4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0004)			
33 42 36 00-0006	LF	4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain (Zurn Z844-C)	70.90	18.32	
		For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	109.19		
		For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	218.38		
		For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	349.41		
		For Type 304 Stainless Steel Top Veneer Frame, Add	87.35		
		For Aluminum Veneer Bronze Anodized Frame, Add	43.68		
33 42 36 00-0007		Outlet Adapters For 4 Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drains (33 42 36 00-0004)			
33 42 36 00-0008	EA	Closed End Cap For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain.....	53.88		
33 42 36 00-0009	EA	No-Hub End Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain.....	65.34		
33 42 36 00-0010	EA	No-Hub Bottom Outlet For 4" Wide, High-Density Polyethylene (HDPE), Shallow Modular Trench Drain.....	65.34		
33 42 36 00-0011		6" Wide, Modular Trench Drains (33 42 36 00-0002)			
33 42 36 00-0012		6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0011)			
33 42 36 00-0013		6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)			
33 42 36 00-0014	LF	6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain.....	223.41	18.32	
		For Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	109.19		
		For Galvanized Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	218.38		
		For Stainless Steel Extra Heavy-Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	349.41		
		For Type 304 Stainless Steel Top Veneer Frame, Add	87.35		
		For Aluminum Veneer Bronze Anodized Frame, Add	43.68		
33 42 36 00-0015		Outlet Adapters For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)			
33 42 36 00-0016	EA	Closed End Cap For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	101.52		
33 42 36 00-0017	EA	No-Hub End Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	112.98		
33 42 36 00-0018	EA	No-Hub Bottom Outlet For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	112.98		
33 42 36 00-0019		Other Fittings For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0012)			
33 42 36 00-0020	EA	Bottom Dome Strainer For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	196.25		
33 42 36 00-0021	EA	Joint Connector For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	196.25		
33 42 36 00-0022	EA	90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	930.78		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0023	EA		Cross For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,804.30	
33 42 36 00-0024	EA		Cutting Charge For 6" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	218.38	
33 42 36 00-0025			6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0026			6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0027	LF		6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	326.05	18.32
			<i>For Black Acid Resistant Coated Frame, Add</i>	82.98	
			<i>For Galvanized Top Frame Assembly, Add</i>	82.98	
			<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	305.73	
33 42 36 00-0028			Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0029	EA		Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	110.25	
33 42 36 00-0030	EA		No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	121.71	
33 42 36 00-0031	EA		No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	121.71	
33 42 36 00-0032			Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0033	EA		Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	196.25	
33 42 36 00-0034	EA		Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	196.25	
33 42 36 00-0035	EA		90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	930.78	
33 42 36 00-0036	EA		Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,804.30	
33 42 36 00-0037	EA		Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	218.38	
33 42 36 00-0038			6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0039			6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0040	LF		6" Wide, Vinylester Fiberglass, Modular Trench Drain	422.14	18.32
			<i>For Black Acid Resistant Coated Frame, Add</i>	82.98	
			<i>For Galvanized Top Frame Assembly, Add</i>	82.98	
			<i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	305.73	
33 42 36 00-0041			Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0042	EA		Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	180.13	
33 42 36 00-0043	EA		No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	191.59	
33 42 36 00-0044	EA		No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	191.59	
33 42 36 00-0045			Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0046	EA		Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	196.25	
33 42 36 00-0047	EA		Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	196.25	
33 42 36 00-0048	EA		90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	930.78	
33 42 36 00-0049	EA		Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	1,804.30	
33 42 36 00-0050	EA		Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	218.38	
33 42 36 00-0051			6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0052			6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0053	LF		6" Wide, Polymer Concrete, Modular Trench Drain	493.38	
33 42 36 00-0054			Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0055	EA		Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain	195.53	
33 42 36 00-0056	EA		No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	238.15	
33 42 36 00-0057	EA		No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain	75.12	
33 42 36 00-0058			12" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0059			12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0060			12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0061	LF		12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain	421.63	25.19
			<i>For Acid Resistant Coated Top Frame, Add</i>	113.56	
			<i>For Galvanized Welded Frame Assembly, Add</i>	119.02	
			<i>For Type 304 Stainless Steel Top Frame, Add</i>	681.35	
33 42 36 00-0062			Outlet Adapters For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0063	EA		End Cap For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	209.60	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0064	EA	No-Hub End Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	224.88	
33 42 36 00-0065	EA	No-Hub Bottom Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	224.88	
33 42 36 00-0066		Other Fittings For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0067	EA	Bottom Dome Strainer For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	351.06	
33 42 36 00-0068	EA	Joint Connector For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	460.25	
33 42 36 00-0069	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	1,835.13	
33 42 36 00-0070	EA	Cross For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,582.17	
33 42 36 00-0071	EA	Cutting Charges For 12" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	436.76	
33 42 36 00-0072		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0073		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0074	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	530.82	25.19
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0075		Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0076	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	218.34	
33 42 36 00-0077	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	233.62	
33 42 36 00-0078	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	233.62	
33 42 36 00-0079		Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0080	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	351.06	
33 42 36 00-0081	EA	Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	460.25	
33 42 36 00-0082	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,835.13	
33 42 36 00-0083	EA	Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	3,582.17	
33 42 36 00-0084	EA	Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	436.76	
33 42 36 00-0085		12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0086		12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0087	LF	12" Wide, Vinylester Fiberglass, Modular Trench Drain	749.20	25.19
		For Acid Resistant Coated Top Frame, Add	113.56	
		For Galvanized Welded Frame Assembly, Add	119.02	
		For Type 304 Stainless Steel Top Frame, Add	681.35	
33 42 36 00-0088		Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0089	EA	End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	545.91	
33 42 36 00-0090	EA	No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	561.19	
33 42 36 00-0091	EA	No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	561.19	
33 42 36 00-0092		Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0093	EA	Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	351.06	
33 42 36 00-0094	EA	Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	460.25	
33 42 36 00-0095	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,835.13	
33 42 36 00-0096	EA	Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	3,582.17	
33 42 36 00-0097	EA	Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	436.76	
33 42 36 00-0098		12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0099		12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0100	LF	12" Wide, Polymer Concrete, Modular Trench Drain	661.75	
33 42 36 00-0101		Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)		
33 42 36 00-0102	EA	Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	332.70	
33 42 36 00-0103	EA	No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	573.31	
33 42 36 00-0104	EA	No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain	132.02	
33 42 36 00-0105		23" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0106		23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0105)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 36 00-0107	23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0106)				
33 42 36 00-0108	LF 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drain.....	591.29		34.36	
	For Acid Resistant Coated Frame, Add	170.34			
	For Galvanized Frame Assembly, Add	170.34			
	For Type 304 Stainless Steel Top Frame, Add	1,048.22			
33 42 36 00-0109	Outlet Adapters For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0106)				
33 42 36 00-0110	EA End Cap For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains.....	669.65			
33 42 36 00-0111	EA No-Hub End Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	975.31			
33 42 36 00-0112	EA No-Hub Bottom Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	975.31			
33 42 36 00-0113	Other Fittings For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains (33 42 36 00-0106)				
33 42 36 00-0114	EA Bottom Dome Strainer For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	798.68			
33 42 36 00-0115	EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	3,637.20			
33 42 36 00-0116	EA Cross For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	7,131.28			
33 42 36 00-0117	EA Cutting Charges For 23" Wide, High-Density Polyethylene (HDPE), Modular Trench Drains	873.52			
33 42 36 00-0118	Modular Trench Drain Grates (33 42 36 00-0001)				
33 42 36 00-0119	4" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0120	LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP).....	45.23		3.44	
33 42 36 00-0121	LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	47.56		3.44	
33 42 36 00-0122	LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	38.26		3.44	
33 42 36 00-0123	LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	102.17		3.44	
33 42 36 00-0124	LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	38.26		3.44	
33 42 36 00-0125	LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	102.17		3.44	
33 42 36 00-0126	6" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0127	LF 6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate.....	215.37		3.44	
33 42 36 00-0128	LF 6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate.....	182.40		3.44	
33 42 36 00-0129	LF 6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	191.57		3.44	
33 42 36 00-0130	LF 6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	167.33		3.44	
33 42 36 00-0131	LF 6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	180.43		3.44	
33 42 36 00-0132	LF 6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	182.62		3.44	
33 42 36 00-0133	LF 6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate.....	182.62		3.44	
33 42 36 00-0134	LF 6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate.....	180.43		3.44	
33 42 36 00-0135	LF 6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate.....	158.60		3.44	
33 42 36 00-0136	LF 6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate.....	158.60		3.44	
33 42 36 00-0137	LF 6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	168.64		3.44	
33 42 36 00-0138	LF 6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	168.64		3.44	
33 42 36 00-0139	LF 6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate.....	219.74		3.44	
33 42 36 00-0140	LF 6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	219.74		3.44	
33 42 36 00-0141	LF 6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	403.18		3.44	
33 42 36 00-0142	LF 6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate.....	403.18		3.44	
33 42 36 00-0143	LF 6" Wide, Stainless Steel Bar, Modular Trench Drain Grate.....	1,123.84		3.44	
33 42 36 00-0144	LF 6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate.....	149.86		3.44	
33 42 36 00-0145	LF 6" Wide, Fiberglass, Modular Trench Drain Grate.....	324.56		3.44	
33 42 36 00-0146	12" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0147	LF 12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate.....	595.92		3.72	
33 42 36 00-0148	LF 12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	569.71		3.72	
33 42 36 00-0149	LF 12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	495.46		3.72	
33 42 36 00-0150	LF 12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate.....	520.57		3.72	
33 42 36 00-0151	LF 12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate.....	449.60		3.72	
33 42 36 00-0152	LF 12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate.....	880.90		3.72	
33 42 36 00-0153	LF 12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate.....	880.90		3.72	
33 42 36 00-0154	LF 12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate.....	1,124.40		3.72	
33 42 36 00-0155	LF 12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate.....	1,124.40		3.72	
33 42 36 00-0156	LF 12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate.....	1,435.59		3.72	
33 42 36 00-0157	LF 12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate.....	1,435.59		3.72	
33 42 36 00-0158	LF 12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate.....	1,362.43		3.72	
33 42 36 00-0159	LF 12" Wide, Fiberglass, Modular Trench Drain Grate.....	642.87		3.72	
33 42 36 00-0160	23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0161	LF 23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate.....	941.54		4.00	
33 42 36 00-0162	LF 23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate.....	793.04		4.00	
33 42 36 00-0163	LF 23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate.....	1,229.80		4.00	
33 42 36 00-0164	LF 23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate.....	910.96		4.00	



Utilities		33	CS
Stormwater Utilities		33 40	
Storm Utility Water Drains		33 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 44 Storm Utility Water Drains (33 40)

33 44 36 Oil and Stormwater Separators (33 44)

33 44 36 00-0001	Oil/Water Separator (33 44 36)	
Note: Complete with internal sensors and detectors.		
33 44 36 00-0002	Coalescing Oil Water Separator (33 44 36 00-0001)	
Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		
33 44 36 00-0003	Single Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)	
33 44 36 00-0004	EA 550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	19,705.99
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
For Interior Polyurethane Coating, Add		711.00
33 44 36 00-0005	EA 1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	24,088.52
Note: HTC-G 1000. 4' diameter x 14' long tank.		
For Interior Polyurethane Coating, Add		893.70
33 44 36 00-0006	EA 2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways.....	28,828.44
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
For Interior Polyurethane Coating, Add		1,340.10
33 44 36 00-0007	Double Wall Steel Coalescing Oil Water Separator (33 44 36 00-0002)	
33 44 36 00-0008	EA 550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	30,553.69
Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
For Interior Polyurethane Coating, Add		711.00
33 44 36 00-0009	EA 1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	35,128.16
Note: HTC-G 1000. 4' diameter x 14' long tank.		
For Interior Polyurethane Coating, Add		893.70
33 44 36 00-0010	EA 2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	42,874.31
Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
For Interior Polyurethane Coating, Add		1,340.10
33 44 36 00-0011	EA 3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	49,884.12
Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
For Interior Polyurethane Coating, Add		1,550.70
33 44 36 00-0012	EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways	66,222.78
Note: HTC-G 5000. 6' diameter x 28'-8" long tank.		
For Interior Polyurethane Coating, Add		2,057.80
33 44 36 00-0013	Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)	
33 44 36 00-0014	EA Single Channel Alarm Panel For Coalescing Oil Water Separator	1,223.56
Note: HTAP1.		
33 44 36 00-0015	EA Two Channel Alarm Panel For Coalescing Oil Water Separator	1,663.33
Note: HTAP2.		
33 44 36 00-0016	EA Float Interface Sensor For Coalescing Oil Water Separator.....	986.66
Note: Required for UL 2215 label.		
33 44 36 00-0017	EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator	729.60
Note: Required for UL 2215 label.		
33 44 36 00-0018	EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator	247.61
Note: Required for UL 2215 label.		
33 44 36 00-0019	EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator	4,197.85
33 44 36 00-0020	EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator	8,395.69
33 44 36 00-0021	EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator	12,593.63
33 44 36 00-0022	EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	756.57
33 44 36 00-0023	EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	893.67
33 44 36 00-0024	EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	1,787.35
33 44 36 00-0025	EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator	3,966.35
33 44 36 00-0026	EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	1,077.90
Note: Required when installed in paved areas.		
33 44 36 00-0027	EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	1,404.89
Note: Required when installed in paved areas.		
33 44 36 00-0028	EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator.....	1,946.12
Note: Required when installed in paved areas.		
33 44 36 00-0029	EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator	3,548.48
Note: Required when installed in paved areas.		
33 44 36 00-0030	EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator	4,563.87
Note: Required when installed in paved areas.		
33 44 36 00-0031	EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator	5,729.21
Note: Required when installed in paved areas.		
33 44 36 00-0032	EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator	7,224.46
Note: Required when installed in paved areas.		
33 44 36 00-0033	EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,428.83
33 44 36 00-0034	EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	1,741.59
33 44 36 00-0035	EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator	2,735.56
33 44 36 00-0036	EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,362.43
33 44 36 00-0037	EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,653.76
33 44 36 00-0038	EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator	1,962.24

33 Utilities**33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	115.68	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator	130.67	
33 44 36 00-0041 Oil Skimmers (33 44 36)		
33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,287.32	719.11
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase	5,523.12	719.11
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,309.16	719.11
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase	5,611.54	719.11
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,556.96	719.11
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	5,756.73	719.11
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,608.26	719.11
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	5,909.56	719.11
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,020.29	959.01
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase	6,272.46	959.01
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,086.88	959.01
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase	6,449.31	959.01
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,657.81	959.01
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase	6,909.98	959.01
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	6,711.30	959.01
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase	7,074.82	959.01
33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models	281.39	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models	329.42	
33 46 Stormwater Management (33 40)		
33 46 23 Modular Buried Stormwater Storage Units (33 46)		
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)		
Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.		
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)		
33 46 23 00-0003 EA Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	605.46	
33 46 23 00-0004 EA >10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	559.10	
33 46 23 00-0005 EA >20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	525.41	
33 46 23 00-0006 EA >30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	492.83	
33 46 23 00-0007 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	251.01	
33 46 23 00-0008 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	222.37	
33 46 23 00-0009 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	205.52	
33 46 23 00-0010 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	188.94	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)		
33 46 23 00-0012 EA Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	343.96	
33 46 23 00-0013 EA >10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	315.31	
33 46 23 00-0014 EA >20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	295.23	
33 46 23 00-0015 EA >30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	276.84	
33 46 23 00-0016 EA Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	196.03	
33 46 23 00-0017 EA >10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	174.77	
33 46 23 00-0018 EA >20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	161.69	
33 46 23 00-0019 EA >30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310)	149.98	
33 46 23 00-0020 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)		
33 46 23 00-0021 EA Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	1,031.88	
33 46 23 00-0022 EA >10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)	962.22	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Management	33 46	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	906.21		
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	855.16		
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	868.82		
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	807.29		
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	759.04		
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	715.34		
33 46 23 00-0029		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)			
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	628.84		
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	581.33		
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	546.52		
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	512.87		
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780)	251.01		
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	217.95		
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	205.52		
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	188.94		
33 46 23 00-0038		52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)			
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,072.47		
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	998.78		
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	938.78		
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	886.68		
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,336.47		
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,249.57		
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,177.04		
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,113.03		
33 46 23 00-0047		Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)			
33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	64.23		
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	81.67		
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	106.56		
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap	134.63		
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit	757.85		
Note: (2712AG6IPKIT)					
33 46 53		Stormwater Leaching Pits (33 46)			
33 46 53 00-0001		Drainage Wells (33 46 53)			
Note: Includes augering hole.					
33 46 53 00-0002	LF	12" Diameter Drainage Well With Corrugated Metal Liner.....	34.21		
33 46 53 00-0003	LF	18" Diameter Drainage Well With Corrugated Metal Liner.....	42.08		
33 46 53 00-0004	LF	24" Diameter Drainage Well With Corrugated Metal Liner.....	56.81		
33 50		Hydrocarbon Utilities (33)			
33 51		Hydrocarbon Sources (33 50)			
33 51 29		Extraction Wells for Gaseous Hydrocarbons (33 51)			
33 51 29 00-0001		Landfill Gas Well (33 51 29)			
33 51 29 00-0002		Mobilization And Demobilization Landfill Gas Extraction Well (33 51 29 00-0001)			
33 51 29 00-0003	EA	24" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization.....	1,327.60		
33 51 29 00-0004	EA	>24" To 36" Diameter, Landfill Gas Extraction Well Drilling Mobilization And Demobilization	1,991.39		

33 Utilities**33 50 Hydrocarbon Utilities****33 51 Hydrocarbon Sources**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 51 29 00-0005	Drill Landfill Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0001) Note: Excludes well gravel or materials.			
33 51 29 00-0006	LF	24" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	229.84	
33 51 29 00-0007	LF	30" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	299.37	
33 51 29 00-0008	LF	36" Landfill Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	372.39	
33 51 29 00-0009	Landfill Gas Extraction Well Gravel Backfill (33 51 29 00-0001) Note: 1/2" x 1-1/2" drain rock.			
33 51 29 00-0010	LF	24" Diameter Landfill Gas Extraction Well, Gravel.	126.68	
33 51 29 00-0011	LF	30" Diameter Landfill Gas Extraction Well, Gravel.	162.75	
33 51 29 00-0012	LF	36" Diameter Landfill Gas Extraction Well, Gravel.	188.25	
33 51 29 00-0013	Landfill Gas Extraction Well Collection Head (33 51 29 00-0001)			
33 51 29 00-0014	EA	Landfill Gas Extraction Well Head Assembly.	3,476.70	
33 51 29 00-0015	EA	Landfill Gas Extraction Well Locking Enclosure.	1,084.23	
33 51 29 00-0016	SF	Landfill Gas Extraction Well Skirt, PVC Seal (Landtex WBS-100-4)	5.69	
33 51 29 00-0017	CF	Landfill Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD)	11.13	
33 51 29 00-0018	CY	Landfill Gas Extraction Well Plug, Moistened And Tamped In 2' Lifts.	138.79	
33 51 29 00-0019	EA	4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Landfill Gas Extraction Well.	791.56	14.10
		Note: Includes drilling, concrete footing, pipe and concrete fill.		
		For Galvanized Steel, Add	76.66	
		For 304 Stainless Steel, Add	608.77	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	1,386.48	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	679.02	
		For Schedule 80, Add	101.70	
33 51 29 00-0020	Landfill Gas Extraction Well Valve Box (33 51 29 00-0001)			
33 51 29 00-0021	EA	17" x 30" x 12" High Fibrelyte Utility Box (FL36T-12)	381.92	151.27
33 51 29 00-0022	EA	17" x 30" x 18" High Fibrelyte Utility Box (FL36T-18)	520.36	151.27
33 51 29 00-0023	EA	17" x 30" x 24" High Fibrelyte Utility Box (FL36T-18)	658.99	151.27
33 51 29 00-0024	EA	Fibrelyte Composite Lid For 17" x 30" Utility Box (FL36D)	297.20	36.49
33 51 29 00-0025	EA	6" High Extension For 17" x 30" Utility Box (FL36x6)	177.64	53.08
33 51 29 00-0026	EA	8" High Extension For 17" x 30" Utility Box (FL36x8)	199.10	53.08
33 51 29 00-0027	Landfill Gas Extraction Well Riser Pipe (33 51 29 00-0001)			
33 51 29 00-0028	LF	4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Thread.	21.23	
33 51 29 00-0029	LF	6" Diameter Slotted Polyvinyl Chloride (PVC) Riser Pipe With Slip Joint And Coupler.	54.37	
33 51 29 00-0030	EA	6" Well Riser Pipe, Centralizer For >12" To 24" Diameter Well.	147.51	
33 51 29 00-0031	EA	6" Well Riser Pipe, Centralizer For >24" To 30" Diameter Well.	220.70	
33 51 29 00-0032	Soil Vapor Gas Extraction Well (33 51 29)			
33 51 29 00-0033	Mobilization And Demobilization Soil Vapor Gas Extraction Well (33 51 29 00-0032)			
33 51 29 00-0034	EA	Up To 12" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.	1,082.91	
33 51 29 00-0035	EA	>12" To 24" Diameter, Soil Vapor Gas Extraction Well Drilling Mobilization And Demobilization.	1,327.60	
33 51 29 00-0036	Drill Soil Vapor Gas Extraction Well In Normal Soil, Sand, Gravel, O.B. (33 51 29 00-0032) Note: Excludes well gravel or materials.			
33 51 29 00-0037	LF	6" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	25.73	
33 51 29 00-0038	LF	8" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	30.54	
33 51 29 00-0039	LF	10" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	40.82	
33 51 29 00-0040	LF	12" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	63.89	
33 51 29 00-0041	LF	18" Soil Vapor Gas Extraction Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	142.72	
33 51 29 00-0042	Soil Vapor Gas Extraction Well Pea Gravel Backfill (33 51 29 00-0032)			
33 51 29 00-0043	LF	6" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.	19.54	
33 51 29 00-0044	LF	8" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.	28.83	
33 51 29 00-0045	LF	10" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.	40.16	
33 51 29 00-0046	LF	12" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.	51.49	
33 51 29 00-0047	LF	18" Diameter Soil Vapor Gas Extraction Well, Pea Gravel.	94.29	
33 51 29 00-0048	Soil Vapor Gas Extraction Well Head (33 51 29 00-0032)			
33 51 29 00-0049	EA	Soil Vapor Gas Extraction Well Head Assembly.	1,667.64	
33 51 29 00-0050	EA	Soil Vapor Gas Extraction Well Head Concrete Cap.	1,360.79	
33 51 29 00-0051	EA	Soil Vapor Gas Extraction Well Locking Enclosure.	1,084.23	
33 51 29 00-0052	CF	Soil Vapor Gas Extraction Well Neat Cement.	9.27	
33 51 29 00-0053	CF	Soil Vapor Gas Extraction Well Bentonite Barrier (Benseal EZ-MUD).	11.13	



		Utilities	33	CS
		Hydrocarbon Utilities	33 50	
		Hydrocarbon Sources	33 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 51 29 00-0054	EA		4" Steel Concrete Filled Pipe Bollard, 8' Overall Length (3' Bury With 5' Exposed) For Soil Vapor Gas Extraction Well Note: Includes drilling, concrete footing, pipe and concrete fill. For Galvanized Steel, Add For 304 Stainless Steel, Add For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add For Schedule 80, Add LF 1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well For Work In Restricted Working Space, Add EA 1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well	791.56 76.66 608.77 1,386.48 679.02 101.70 3.48 0.96 78.08	14.10 20.82
33 51 29 00-0055	LF		1/4" Polyethylene Tubing For Soil Vapor Gas Extraction Well For Work In Restricted Working Space, Add	3.48 0.96	
33 51 29 00-0056	EA		1/4" Polyvinyl Chloride (PVC) Stopcock Valve (Hayward LC12) For Soil Vapor Gas Extraction Well	78.08	20.82
33 51 29 00-0057			Soil Vapor Gas Extraction Well Riser Pipe (33 51 29 00-0032)		
33 51 29 00-0058	LF		3/4" Polyvinyl Chloride (PVC) Well Riser Pipe, Flush Tread.....	3.83	
33 51 29 00-0059	LF		3/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Riser Pipe	9.80	

33 52 Hydrocarbon Transmission and Distribution (33 50)

33 52 16 Gas Hydrocarbon Piping (33 52)

33 52 16 13 Steel Natural Gas Piping (33 52 16)

33 52 16 13-0001 Gas Distribution Lines (33 52 16 13)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 53 Hydrocarbon Utility Pressure Regulation (33 50)

33 53 16 Gas Hydrocarbon Pressure Regulation (33 53)

33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends (33 53 16)

33 53 16 00-0002	EA	3/4" Gas Pressure Regulator, Screwed End.....	254.69	20.82
33 53 16 00-0003	EA	1" Gas Pressure Regulator, Screwed End.....	259.43	20.82
33 53 16 00-0004	EA	1-1/4" Gas Pressure Regulator, Screwed End.....	270.76	24.73
33 53 16 00-0005	EA	1-1/2" Gas Pressure Regulator, Screwed End.....	906.54	28.62
33 53 16 00-0006	EA	2" Gas Pressure Regulator, Screwed End.....	966.34	44.33
33 53 16 00-0007	EA	3" Gas Pressure Regulator, Screwed End.....	2,712.23	99.46
33 53 16 00-0008	EA	4" Gas Pressure Regulator, Screwed End.....	3,768.17	131.82

33 59 Hydrocarbon Utility Metering (33 50)

33 59 11 Diaphragm/Bellows Hydrocarbons Meters (33 59)

33 59 11 00-0001 Diaphragm Meters (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lb to 100 lb, threaded connections. Excludes pressure and temperature compensation.

33 59 11 00-0002	EA	250 CF/Hour Gas Diaphragm Meter At 5 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	625.27 8.40 26.50	81.49
33 59 11 00-0003	EA	425 CF/Hour Gas Diaphragm Meter At 10 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	1,227.99 8.40 26.50	124.63
33 59 11 00-0004	EA	425 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	1,443.29 8.40 26.50	124.63
33 59 11 00-0005	EA	800 CF/Hour Gas Diaphragm Meter At 20 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	3,151.39 8.40 26.50	155.78
33 59 11 00-0006	EA	1,000 CF/Hour Gas Diaphragm Meter At 25 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	3,565.01 8.40 26.50	191.73
33 59 11 00-0007	EA	800 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	4,689.75 8.40 26.50	155.78
33 59 11 00-0008	EA	1,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	5,220.46 8.40 26.50	191.73
33 59 11 00-0009	EA	1,400 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	6,890.82 8.40 26.50	203.71
33 59 11 00-0010	EA	2,300 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	9,749.80 8.40 26.50	239.66
33 59 11 00-0011	EA	5,000 CF/Hour Gas Diaphragm Meter At 100 Lb., Direct Digital, Threaded For Temperature And Pressure Compensation, Add For Pulsers, Add	14,893.32 8.40 26.50	395.44

33 59 16 Hydrocarbons Turbine Meters (33 59)

33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

33 Utilities**33 50 Hydrocarbon Utilities****33 59 Hydrocarbon Utility Metering**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 59 16 00-0002	EA	4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	11,948.82	413.75
33 59 16 00-0003	EA	6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	12,790.29	480.48
33 59 16 00-0004	EA	8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	19,788.36	516.30
33 59 16 00-0005	EA	10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	38,469.69	628.53
33 59 16 00-0006	EA	12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged	63,483.06	785.66

33 70 Electrical Utilities ⁽³³⁾**33 71 Electrical Utility Transmission and Distribution** ^(33 70)**33 71 19 Electrical Underground Ducts, Ductbanks and Manholes** ^(33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes ^(33 71 19)**33 71 19 13-0001 Electrical Handholes And Pull Boxes** ^(33 71 19 13)**33 71 19 13-0002 Electrical Pull Boxes** ^(33 71 19 13-0001)

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	2,620.88	556.10
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	3,172.69	616.40
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	3,702.66	670.01
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	5,918.89	804.00
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	6,349.97	804.00
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	6,847.98	837.51
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	7,891.49	938.01
33 71 19 13-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete	2,762.33	616.40
33 71 19 13-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete	1,363.58	402.01
33 71 19 13-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,736.62	804.00
33 71 19 13-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete	2,368.03	938.01
33 71 19 13-0014	EA	24" x 3", Round Electric Pull Boxes, Precast Concrete	1,513.54	234.50
33 71 19 13-0015	EA	30" x 3", Round Electric Pull Boxes, Precast Concrete	1,596.78	251.26

33 71 19 13-0016 Electrical Pull Boxes (CALTRANS And SDG&E) ^(33 71 19 13-0001)

33 71 19 13-0017	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box	142.99	
33 71 19 13-0018	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	57.45	
33 71 19 13-0019	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	88.11	
33 71 19 13-0020	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	187.31	
33 71 19 13-0021	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	290.16	
<i>For Galvanized Steel Cover, Add</i>			49.79	
33 71 19 13-0022	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	72.29	
33 71 19 13-0023	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	72.29	
33 71 19 13-0024	EA	Body, CALTRANS 5 Precast Concrete Pull Box	204.46	
33 71 19 13-0025	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	76.92	
33 71 19 13-0026	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	107.58	
33 71 19 13-0027	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	385.09	
<i>For Galvanized Steel Cover, Add</i>			91.29	
33 71 19 13-0028	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box	102.72	
33 71 19 13-0029	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	96.02	
33 71 19 13-0030	EA	Body, CALTRANS 6 Precast Concrete Pull Box	223.93	
33 71 19 13-0031	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	103.09	
33 71 19 13-0032	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	133.75	
33 71 19 13-0033	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	528.72	
<i>For Galvanized Steel Cover, Add</i>			127.80	
33 71 19 13-0034	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box	122.19	
33 71 19 13-0035	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	114.89	
33 71 19 13-0036	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	158.71	
33 71 19 13-0037	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	321.30	
33 71 19 13-0038	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	462.99	
33 71 19 13-0039	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	146.53	
33 71 19 13-0040	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	134.36	
33 71 19 13-0041	EA	Body, CALTRANS 5-T Precast Concrete Pull Box	418.67	
33 71 19 13-0042	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	669.91	
33 71 19 13-0043	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box	175.75	
33 71 19 13-0044	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	170.88	
33 71 19 13-0045	EA	Body, CALTRANS 6-T Precast Concrete Pull Box	596.38	
33 71 19 13-0046	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	937.68	
33 71 19 13-0047	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box	297.46	
33 71 19 13-0048	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	231.73	
33 71 19 13-0049	EA	24" x 36" Handhole (SDG&E 3313K/T)	238.31	
33 71 19 13-0050	EA	24" x 36" Traffic Cover (SDG&E 3313CSTG)	1,925.52	

33 71 19 13-0051 Precast Concrete Box Extensions ^(33 71 19 13-0001)

33 71 19 13-0052	EA	14" x 20" x 12", Precast Concrete Extension	239.38	43.63
33 71 19 13-0053	EA	18" x 28" x 12", Precast Concrete Extension	300.69	55.26
33 71 19 13-0054	EA	24" x 36" x 12", Precast Concrete Extension	392.11	75.63
33 71 19 13-0055	EA	30" x 48" x 12", Precast Concrete Extension	483.25	104.71
33 71 19 13-0056	EA	36" x 60" x 12", Precast Concrete Extension	775.72	127.99
33 71 19 13-0057	EA	36" x 72" x 12", Precast Concrete Extension	1,038.81	145.44



		Utilities	33	CS
		Electrical Utilities	33 70	
		Electrical Utility Transmission and Distribution	33 71	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0058	EA	48" x 48" x 12", Precast Concrete Extension		1,180.34	133.80
33 71 19 13-0059	EA	48" x 60" x 12", Precast Concrete Extension		1,448.21	157.07
33 71 19 13-0060 Electrical Property Line Boxes (33 71 19 13)					
33 71 19 13-0061	EA	3'-6" x 2'-9" x 2' Deep Property Line Box		5,639.39	452.25
33 71 19 13-0062	EA	4'-6" x 3'-6" x 4' Deep Property Line Box		6,639.89	469.01
33 71 19 13-0063	EA	6' x 4' x 5' Deep Property Line Box		7,274.39	569.50
33 71 19 13-0064	EA	11'-6" x 4'-6" x 6' Deep Property Line Box		11,144.84	837.51
33 71 19 13-0065 Manhole Accessories (33 71 19 13)					
33 71 19 13-0066	EA	6" Precast Grade Ring Riser Casting.....		535.18	155.75
33 71 19 13-0067	EA	12" Precast Grade Ring Riser Casting.....		579.58	168.73
33 71 19 13-0068	EA	36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D)		2,149.04	259.58
33 71 19 13-0069	EA	42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....		2,800.75	324.47
33 71 19 13-0070	EA	Cast Iron Adjusting Ring (NEENAH #R-1979).....		923.42	173.27
33 71 19 13-0071	EA	Cast Iron Frame And Cover (NEENAH #R-1640-B)		1,167.70	194.68
33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)					
33 71 19 23-0001 Underground Ductbank (33 71 19 23)					
Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. See CSI section 03 30 53 00-0001 for concrete.					
33 71 19 23-0002 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (33 71 19 23-0001)					
Note: Includes appropriate spacers and fittings.					
33 71 19 23-0003	LF	2 At 2", Rigid Galvanized Conduit Duct Bank		35.64	
33 71 19 23-0004	LF	4 At 2", Rigid Galvanized Conduit Duct Bank		71.31	
33 71 19 23-0005	LF	2 At 3", Rigid Galvanized Conduit Duct Bank		73.33	
33 71 19 23-0006	LF	4 At 3", Rigid Galvanized Conduit Duct Bank		147.07	
33 71 19 23-0007	LF	2 At 4", Rigid Galvanized Conduit Duct Bank		107.91	
33 71 19 23-0008	LF	4 At 4", Rigid Galvanized Conduit Duct Bank		217.02	
33 71 19 23-0009	LF	6 At 4", Rigid Galvanized Conduit Duct Bank		326.31	
33 71 19 23-0010	LF	2 At 5", Rigid Galvanized Conduit Duct Bank		201.63	
33 71 19 23-0011	LF	4 At 5", Rigid Galvanized Conduit Duct Bank		402.08	
33 71 19 23-0012	LF	6 At 5", Rigid Galvanized Conduit Duct Bank		619.19	
33 71 19 23-0013	LF	2 At 6", Rigid Galvanized Conduit Duct Bank		286.65	
33 71 19 23-0014	LF	4 At 6", Rigid Galvanized Conduit Duct Bank		575.36	
33 71 19 23-0015	LF	6 At 6", Rigid Galvanized Conduit Duct Bank		855.88	
33 71 19 23-0016 Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System (33 71 19 23-0001)					
Note: Includes appropriate spacers and fittings.					
33 71 19 23-0017	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		8.36	
33 71 19 23-0018	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		18.38	
33 71 19 23-0019	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		35.28	
33 71 19 23-0020	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		11.07	
33 71 19 23-0021	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		22.12	
33 71 19 23-0022	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		44.90	
33 71 19 23-0023	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		14.79	
33 71 19 23-0024	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		29.60	
33 71 19 23-0025	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		59.26	
33 71 19 23-0026	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		88.85	
33 71 19 23-0027	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		18.68	
33 71 19 23-0028	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		37.33	
33 71 19 23-0029	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		72.25	
33 71 19 23-0030	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		102.44	
33 71 19 23-0031	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		33.21	
33 71 19 23-0032	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		50.56	
33 71 19 23-0033	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		101.34	
33 71 19 23-0034	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....		163.88	
33 71 19 23-0035 Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System (33 71 19 23-0001)					
Note: Includes appropriate spacers and fittings.					
33 71 19 23-0036	LF	1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		9.29	
33 71 19 23-0037	LF	2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		20.31	
33 71 19 23-0038	LF	4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		38.88	
33 71 19 23-0039	LF	1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		11.49	
33 71 19 23-0040	LF	2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		22.96	
33 71 19 23-0041	LF	4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		45.77	
33 71 19 23-0042	LF	1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		15.14	
33 71 19 23-0043	LF	2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		30.29	
33 71 19 23-0044	LF	4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		60.66	
33 71 19 23-0045	LF	6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank		90.94	

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 71 19 23-0046	LF	1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	19.21		
33 71 19 23-0047	LF	2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	38.38		
33 71 19 23-0048	LF	4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	74.36		
33 71 19 23-0049	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	105.60		
33 71 19 23-0050	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	33.94		
33 71 19 23-0051	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	52.07		
33 71 19 23-0052	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	104.36		
33 71 19 23-0053	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	168.42		
33 71 19 23-0054 Male Or Female Adapters (33 71 19 23-0001)					
33 71 19 23-0055	EA	2" Adapter.....	44.71		
33 71 19 23-0056	EA	3" Adapter.....	64.44		
33 71 19 23-0057	EA	4" Adapter.....	83.26		
33 71 19 23-0058	EA	5" Adapter.....	127.39		
33 71 19 23-0059	EA	6" Adapter.....	157.57		
33 71 19 23-0060 Underground Cable Protection Slab And Marking (33 71 19 23)					
33 71 19 23-0061	EA	24" x 12", 2" Concrete, Underground Cable Protection	5.91		
33 71 19 23-0062 Underground Electrical Concrete Markers (33 71 19 23)					
33 71 19 23-0063	EA	36" x 6" x 6", Underground Electric Concrete Marker	388.49		

END OF SECTION 33



Transportation		34
Operation and Maintenance of Transportation		34 01
Operation and Maintenance of Railways		34 01 23

34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 01 Operation and Maintenance of Transportation (34)

34 01 23 Operation and Maintenance of Railways (34 01)

34 01 23 33 Track Realignment (34 01 23)

34 01 23 33-0001 Realign Railroad Track (34 01 23 33)

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes	105.49
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-Install Including New Bolts And Spikes	5,160.70

34 01 43 Operation and Maintenance of Bridges (34 01)

34 01 43 00-0001 Repair Of Bridge Posts (34 01 43)

34 01 43 00-0002	SF	Chipping Of Concrete To Expose Rebar	37.81
34 01 43 00-0003	EA	Removal And Replacement Of Concrete Post, 20" x 20" Square, 36" To 42" High	2,243.42
Note: Includes removal of damaged post, drilling, epoxy injection, rebar, forms and concrete.			
34 01 43 00-0004	EA	Repair Bearing Pad	796.56

34 01 43 00-0005 Repair Of Bridge Rails (34 01 43)

34 01 43 00-0006	EA	Repair Concrete Rail Supports	401.64
34 01 43 00-0007	LF	Repair Guardrail	150.62
34 01 43 00-0008	LF	Repair Bridge Parapet Wall	251.03
34 01 43 00-0009	LF	Repair Bridge Rail	97.69
34 01 43 00-0010	LF	Repair Damaged Metal Rail And Posts	51.72
34 01 43 00-0011	LF	Removal And Replacement Of 1-1/2" Galvanized Metal Rail	61.41
34 01 43 00-0012	LF	Removal And Replacement Of 2-1/2" Galvanized Metal Rail	83.84
34 01 43 00-0013	LF	Removal And Replacement Of 3" Galvanized Metal Rail	95.97

34 01 43 00-0014 Repair Of Bridge (34 01 43)

34 01 43 00-0015	LF	Repair Of Expansion Joints On Bridge	24.14

34 05 Common Work Results for Transportation (34)

34 05 43 Common Work Results for Bridges (34 05)

34 05 43 00-0001 Mobilize Bridge Crew (34 05 43)

Note: Excludes mobilize jacking crew.

34 05 43 00-0002	EA	Mobilize Bridge Crew	1,403.44

34 05 43 00-0003 Remove And Patch Bridge And Structures Concrete (34 05 43)

Note: This section is used for repairing areas of concrete decks, floors, verticals and overheads and approximately 1" to 6" deep in connection with bridge and structure repairs. Includes chipping, sandblasting, cleaning, primer, formwork and debris removal. Excludes scaffolding, saw cutting, disposal and/or concrete pump truck.

34 05 43 00-0004 Remove And Patch Decks Or Floors (34 05 43 00-0003)

Note: For patching decks and floors, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0005	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Portland Cement Based Repair Material	2,471.22
34 05 43 00-0006	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Portland Cement Based Repair Material	104.99
34 05 43 00-0007	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	2,551.19
34 05 43 00-0008	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Concrete Repair Material	109.99
34 05 43 00-0009	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,533.50
34 05 43 00-0010	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	108.88
34 05 43 00-0011	EA	Remove And Patch Up To 16 SF Of Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	3,889.03
For Owner Furnished Material, Deduct			
-1,661.42			
34 05 43 00-0012	SF	Remove And Patch >16 SF Decks Or Floors, Up To 6" SSI Flex Patch (Other Than Specified)	193.60
For Owner Furnished Material, Deduct			
-103.84			

34 05 43 00-0013 Remove And Patch Verticals Or Overheads (34 05 43 00-0003)

Note: For patching verticals and overhead, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.

34 05 43 00-0014	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	2,910.80
34 05 43 00-0015	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Portland Cement Based Repair Material	126.98
34 05 43 00-0016	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	2,990.77
34 05 43 00-0017	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Concrete Repair Material	131.98
34 05 43 00-0018	EA	Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	2,973.08
34 05 43 00-0019	SF	Remove And Patch >16 SF Verticals Or Overheads, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	130.87

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0020 EA Remove And Patch Up To 16 SF Of Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified).....	4,328.61	
For Owner Furnished Material, Deduct	-1,661.42	
34 05 43 00-0021 SF Remove And Patch >16 SF Verticals Or Overheads, Up To 6" SSI Flex Patch (Other Than Specified)	215.59	
For Owner Furnished Material, Deduct	-103.84	
34 05 43 00-0022 Remove And Patch Pier Caps And Pedestals (34 05 43 00-0003)		
Note: For patching pier caps and pedestals, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0023 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	3,350.37	
34 05 43 00-0024 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Portland Cement Based Repair Material.....	143.46	
34 05 43 00-0025 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material.....	3,430.34	
34 05 43 00-0026 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Concrete Repair Material	148.46	
34 05 43 00-0027 EA Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	3,412.65	
34 05 43 00-0028 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	147.35	
34 05 43 00-0029 EA Remove And Patch Up To 16 SF Of Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified).....	4,768.18	
For Owner Furnished Material, Deduct	-1,661.42	
34 05 43 00-0030 SF Remove And Patch >16 SF Pier Caps And Pedestals, Up To 6" SSI Flex Patch (Other Than Specified).....	232.07	
For Owner Furnished Material, Deduct	-103.84	
34 05 43 00-0031 Remove And Patch Circular Piers (34 05 43 00-0003)		
Note: For patching circular piers, there are tasks with a unit of measure of EA for a quantity of less than 16 SF, followed by a SF task for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task (less the initial 16 SF) to arrive at the total quantity for the project.		
34 05 43 00-0032 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material	4,009.75	
34 05 43 00-0033 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Portland Cement Based Repair Material.....	159.95	
34 05 43 00-0034 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material	4,089.72	
34 05 43 00-0035 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" Rapid Set Concrete Repair Material.....	164.95	
34 05 43 00-0036 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate	4,072.03	
34 05 43 00-0037 SF Remove And Patch >16 SF Circular Pier, Up To 6" Rapid Set Polymer Concrete Methyl Methacrylate.....	182.58	
34 05 43 00-0038 EA Remove And Patch Up To 16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified).....	5,427.56	
For Owner Furnished Material, Deduct	-1,661.42	
34 05 43 00-0039 SF Remove And Patch >16 SF Of Circular Pier, Up To 6" SSI Flex Patch (Other Than Specified)	248.56	
For Owner Furnished Material, Deduct	-103.84	
34 05 43 00-0040 Fiber Reinforced Shotcrete Repair For Bridges (34 05 43)		
34 05 43 00-0041 EA Mobilize Fiber Reinforced Shotcrete Repair Crew.....	896.03	
34 05 43 00-0042 SF Up To 2" Thick, Fiber Reinforced Shotcrete Repair	55.46	
For Up To 25, Add	26.89	
For >25 To 50, Add	13.44	
For >50 To 150, Add	5.38	
34 05 43 00-0043 SF >2" To 4" Thick, Fiber Reinforced Shotcrete Repair	66.11	
For Up To 25, Add	31.37	
For >25 To 50, Add	15.68	
For >50 To 150, Add	6.27	
34 05 43 00-0044 SF >4" To 6" Thick, Fiber Reinforced Shotcrete Repair	76.76	
For Up To 25, Add	35.85	
For >25 To 50, Add	17.92	
For >50 To 150, Add	7.17	
34 05 43 00-0045 Bridge Railing (34 05 43)		
34 05 43 00-0046 Remove And Store Bridge Railings (34 05 43 00-0045)		
See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0047 LF Removal And Storage Of One Rail Bridge Railing.....	7.87	
34 05 43 00-0048 LF Removal And Storage Of Two Rail Bridge Railing	15.76	
34 05 43 00-0049 LF Removal And Storage Of Three Rail Bridge Railing	23.63	
34 05 43 00-0050 LF Removal And Storage Of Four Rail Bridge Railing	31.51	
34 05 43 00-0051 Install Stored Or Supplied Bridge Railings (34 05 43 00-0045)		
See CSI section 34 82 23 00-0007 for posts.		
34 05 43 00-0052 LF Install Stored Or Supplied One Rail Bridge Railing	66.38	
34 05 43 00-0053 LF Install Stored Or Supplied Two Rail Bridge Railing	132.75	
34 05 43 00-0054 LF Install Stored Or Supplied Three Rail Bridge Railing	199.13	
34 05 43 00-0055 LF Install Stored Or Supplied Four Rail Bridge Railing	265.51	
34 05 43 00-0056 Bridge Bearings (34 05 43)		
Note: Excludes drilling and anchor bolts.		
34 05 43 00-0057 Elastomeric Bearings (34 05 43 00-0056)		
34 05 43 00-0058 EA Plain Elastomeric, Type EP Bearing, 716-10, All Loads	1,238.79	336.82
34 05 43 00-0059 EA Steel Laminated Elastomeric, Type EL Bearing, 716-11, Up To 100K	1,859.50	673.65
For >100K To 250K Load, Add	93.32	
For >250K To 500K Load, Add	186.65	
For >500K To 750K Load, Add	279.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0060 EA Elastomeric with External Load Plates, Type EB Bearing, 716-12, Up To 100K For >100K To 250K Load, Add For >250K To 500K Load, Add For >500K To 750K Load, Add	4,220.26 283.09 566.17 849.26	1,010.47
34 05 43 00-0061 Fixed Structural Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0062 EA 100K To 250K Fixed Structural Pot Bearing	3,698.40	
34 05 43 00-0063 EA >250K To 500K Fixed Structural Pot Bearing	5,654.74	
34 05 43 00-0064 EA >500K To 750K Fixed Structural Pot Bearing	7,611.07	
34 05 43 00-0065 Universal Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0066 EA 100K To 250K Universal Structural Pot Bearing	4,592.64	
34 05 43 00-0067 EA >250K To 500K Universal Structural Pot Bearing	7,028.42	
34 05 43 00-0068 EA >500K To 750K Universal Structural Pot Bearing	9,468.38	
34 05 43 00-0069 Guided Structural Expansion Pot Bearings (34 05 43 00-0056)		
34 05 43 00-0070 EA 100K To 250K Guided Structural Pot Bearing	4,756.02	
34 05 43 00-0071 EA >250K To 500K Guided Structural Pot Bearing	7,273.44	
34 05 43 00-0072 EA >500K To 750K Guided Structural Pot Bearing	9,795.05	
34 05 43 00-0073 Remove, Repair And Install Bridge Bearings (34 05 43 00-0056)		
34 05 43 00-0074 Remove Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0075 EA 100K To 250K Structural Bearing Removal	484.19	
34 05 43 00-0076 EA >250K To 500K Structural Bearing Removal	968.37	
34 05 43 00-0077 EA >500K To 750K Structural Bearing Removal	1,452.56	
34 05 43 00-0078 Install And Set Supplied Or Restored Structural Bearings (34 05 43 00-0073)		
34 05 43 00-0079 EA 100K To 250K Structural Bearing - Install And Set Supplied Or Restored Bearing	726.27	
34 05 43 00-0080 EA >250K To 500K Structural Bearing - Install And Set Supplied Or Restored Bearing	1,452.56	
34 05 43 00-0081 EA >500K To 750K Structural Bearing - Install And Set Supplied Or Restored Bearing	2,178.83	
34 05 43 00-0082 Power Wash And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0083 EA 100K To 250K Structural Bearing - Power Wash And Paint	1,132.95	
34 05 43 00-0084 EA >250K To 500K Structural Bearing - Power Wash And Paint	1,279.88	
34 05 43 00-0085 EA >500K To 750K Structural Bearing - Power Wash And Paint	1,426.79	
34 05 43 00-0086 Power Wash, Mechanically Clean And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates. Excludes paint removal.		
34 05 43 00-0087 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,507.24	
For Vacuum Contained Cleaning, Add	374.26	
34 05 43 00-0088 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,700.90	
For Vacuum Contained Cleaning, Add	421.03	
34 05 43 00-0089 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint	1,894.13	
For Vacuum Contained Cleaning, Add	467.70	
34 05 43 00-0090 Power Wash And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0091 EA 100K To 250K Structural Bearing - Power Wash And Paint Only Bearing Plates	706.82	
34 05 43 00-0092 EA >250K To 500K Structural Bearing - Power Wash And Paint Only Bearing Plates	850.45	
34 05 43 00-0093 EA >500K To 750K Structural Bearing - Power Wash And Paint Only Bearing Plates	994.09	
34 05 43 00-0094 Power Wash, Mechanically Clean And Paint Only Bearing Plates (34 05 43 00-0073)		
34 05 43 00-0095 EA 100K To 250K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	942.59	
For Vacuum Contained Cleaning, Add	233.92	
34 05 43 00-0096 EA >250K To 500K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	1,131.14	
For Vacuum Contained Cleaning, Add	280.69	
34 05 43 00-0097 EA >500K To 750K Structural Bearing - Power Wash, Mechanically Clean And Paint Only Bearing Plates	1,319.26	
For Vacuum Contained Cleaning, Add	327.35	
34 05 43 00-0098 Sand Blast And Paint Structural Bearings (34 05 43 00-0073)		
Note: Includes bearing plates.		
34 05 43 00-0099 EA 100K To 250K Structural Bearing - Sand Blast And Paint	1,806.60	
For Vacuum Contained Cleaning, Add	449.10	
34 05 43 00-0100 EA >250K To 500K Structural Bearing - Sand Blast And Paint	2,037.73	
For Vacuum Contained Cleaning, Add	505.24	
34 05 43 00-0101 EA >500K To 750K Structural Bearing - Sand Blast And Paint	2,268.84	
For Vacuum Contained Cleaning, Add	561.37	
34 05 43 00-0102 Sand Blast And Paint Only Bearing Plates (34 05 43 00-0073)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0103	EA	100K To 250K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,129.67		
		<i>For Vacuum Contained Cleaning, Add</i>	280.69		
34 05 43 00-0104	EA	>250K To 500K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,355.69		
		<i>For Vacuum Contained Cleaning, Add</i>	336.83		
34 05 43 00-0105	EA	>500K To 750K Structural Bearing - Sand Blast And Paint Only Bearing Plates.....	1,581.71		
		<i>For Vacuum Contained Cleaning, Add</i>	392.96		
34 05 43 00-0106		Grease Structural Bearings (34 05 43 00-0073)			
34 05 43 00-0107	EA	100K To 250K Structural Bearing - Grease	70.17		
34 05 43 00-0108	EA	>250K To 500K Structural Bearing - Grease	105.25		
34 05 43 00-0109	EA	>500K To 750K Structural Bearing - Grease	140.34		
34 05 43 00-0110		Replace Bronze Plate Wearing Pad (34 05 43 00-0073)			
34 05 43 00-0111	SF	Removal And Replacement Of Bronze Plate Wearing Pad	477.59		
34 05 43 00-0112		Bridge Bearing Rivet Removal (34 05 43 00-0073)			
		See CSI section 02 41 19 13-0080 for reaming of hole, 34 05 43 00-0343 for anchors and grouting.			
34 05 43 00-0113	EA	Bridge Bearing Rivet Removal.....	280.69		
34 05 43 00-0114		Bridge Pintels, Side Keeper, And Shim Plates (34 05 43)			
34 05 43 00-0115	EA	Removal And Replacement Of Bridge Pintel	285.01		
34 05 43 00-0116	EA	Removal And Replacement Of Bridge Side Keeper	291.21		
34 05 43 00-0117	EA	Refabricate And Install Shim Plates At One Bearing	174.50		
34 05 43 00-0118	EA	Refabricate And Install Beveled Shim Plates At One Bearing	174.50		
34 05 43 00-0119	EA	Refabricate And Install Finger Shim Plates At One Bearing	174.50		
34 05 43 00-0120		Vertical Jacking And Lifting For Bridges (34 05 43)			
		Note: For vertical jacking of structural members. Includes jacks, hydraulics, and synchronizing equipment where appropriate. Excludes engineering and design. See CSI section 03 01 30 71-0000 for concrete repair, 05 12 23 00-0000 for temporary steel members.			
34 05 43 00-0121		Mobilize Jacking Crew And Equipment (34 05 43 00-0120)			
		Note: Includes removing equipment after completion.			
34 05 43 00-0122	EA	Mobilize Bridge Jacking Crew and Equipment.....	2,526.19		
		<i>For Temporary Support Mobilization, Add</i>	5,052.38		
34 05 43 00-0123		Vertical Jacking And Lifting Per Point of Contact (34 05 43 00-0120)			
		Note: Includes positioning jack, shims, lifting, and lowering. Excludes temporary steel, temporary lumber, and concrete repairs.			
34 05 43 00-0124	EA	Up To 10 Ton Jack, Per Point Of Contact.....	421.03		
		<i>For Synchronized Lift, Add</i>	84.21		
		<i>For Jacking From Temporary Support, Add</i>	168.41		
34 05 43 00-0125	EA	>10 To 20 Ton Jack, Per Point Of Contact	491.20		
		<i>For Synchronized Lift, Add</i>	98.24		
		<i>For Jacking From Temporary Support, Add</i>	196.48		
34 05 43 00-0126	EA	>20 To 40 Ton Jack, Per Point Of Contact	561.38		
		<i>For Synchronized Lift, Add</i>	112.28		
		<i>For Jacking From Temporary Support, Add</i>	224.55		
34 05 43 00-0127	EA	>40 To 60 Ton Jack, Per Point Of Contact	631.55		
		<i>For Synchronized Lift, Add</i>	126.31		
		<i>For Jacking From Temporary Support, Add</i>	252.62		
34 05 43 00-0128	EA	>60 To 80 Ton Jack, Per Point Of Contact	701.72		
		<i>For Synchronized Lift, Add</i>	140.34		
		<i>For Jacking From Temporary Support, Add</i>	280.69		
34 05 43 00-0129	EA	>80 To 100 Ton Jack, Per Point Of Contact	771.89		
		<i>For Synchronized Lift, Add</i>	154.38		
		<i>For Jacking From Temporary Support, Add</i>	308.76		
34 05 43 00-0130	EA	>100 To 120 Ton Jack, Per Point Of Contact	842.06		
		<i>For Synchronized Lift, Add</i>	168.41		
		<i>For Jacking From Temporary Support, Add</i>	336.82		
34 05 43 00-0131	EA	>120 To 140 Ton Jack, Per Point Of Contact	877.14		
		<i>For Synchronized Lift, Add</i>	175.43		
		<i>For Jacking From Temporary Support, Add</i>	350.86		
34 05 43 00-0132	EA	>140 To 160 Ton Jack, Per Point Of Contact	912.24		
		<i>For Synchronized Lift, Add</i>	182.45		
		<i>For Jacking From Temporary Support, Add</i>	364.90		
34 05 43 00-0133	EA	>160 To 250 Ton Jack, Per Point Of Contact	912.24		
		<i>For Synchronized Lift, Add</i>	182.45		
		<i>For Jacking From Temporary Support, Add</i>	364.90		
34 05 43 00-0134	EA	>250 To 300 Ton Jack, Per Point Of Contact	982.41		
		<i>For Synchronized Lift, Add</i>	196.48		
		<i>For Jacking From Temporary Support, Add</i>	392.96		
34 05 43 00-0135	EA	>300 To 400 Ton Jack, Per Point Of Contact	1,052.58		
		<i>For Synchronized Lift, Add</i>	210.52		
		<i>For Jacking From Temporary Support, Add</i>	421.03		
34 05 43 00-0136	EA	>400 To 500 Ton Jack, Per Point Of Contact	1,122.75		
		<i>For Synchronized Lift, Add</i>	224.55		
		<i>For Jacking From Temporary Support, Add</i>	449.10		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0137 EA >500 To 600 Ton Jack, Per Point Of Contact For Synchronized Lift, Add For Jacking From Temporary Support, Add	1,192.92 238.58 477.17	
34 05 43 00-0138 Daily Charge For Vertical Jacking Equipment (34 05 43 00-0120) Note: Includes hydraulics and synchronizing equipment.		
34 05 43 00-0139 DAY Up To 10 Ton Jacking Equipment Charge By The Day	21.76	
34 05 43 00-0140 DAY >10 To 20 Ton Jacking Equipment Charge By The Day	43.51	
34 05 43 00-0141 DAY >20 To 40 Ton Jacking Equipment Charge By The Day	87.03	
34 05 43 00-0142 DAY >40 To 60 Ton Jacking Equipment Charge By The Day	130.54	
34 05 43 00-0143 DAY >60 To 80 Ton Jacking Equipment Charge By The Day	174.05	
34 05 43 00-0144 DAY >80 To 100 Ton Jacking Equipment Charge By The Day	217.56	
34 05 43 00-0145 DAY >100 To 120 Ton Jacking Equipment Charge By The Day	261.08	
34 05 43 00-0146 DAY >120 To 140 Ton Jacking Equipment Charge By The Day	304.59	
34 05 43 00-0147 DAY >140 To 160 Ton Jacking Equipment Charge By The Day	348.10	
34 05 43 00-0148 DAY >160 To 250 Ton Jacking Equipment Charge By The Day	397.22	
34 05 43 00-0149 DAY >250 To 300 Ton Jacking Equipment Charge By The Day	452.83	
34 05 43 00-0150 DAY >300 To 400 Ton Jacking Equipment Charge By The Day	573.58	
34 05 43 00-0151 DAY >400 To 500 Ton Jacking Equipment Charge By The Day	681.12	
34 05 43 00-0152 DAY >500 To 600 Ton Jacking Equipment Charge By The Day	776.50	
34 05 43 00-0153 Temporary Shoring (34 05 43 00-0120) Note: Setup includes material use cost and initial erection. Setup is also used for relocation to the opposite abutment. Relocation includes moving and setup at a new jacking location. Takedown includes disassembly and removal from the site. Excludes earthwork and temporary stone.		
34 05 43 00-0154 HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00- 0153)		
34 05 43 00-0155 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	3,003.81	
34 05 43 00-0156 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,135.92	
34 05 43 00-0157 EA HP8x36 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	451.71	
34 05 43 00-0158 HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00- 0153)		
34 05 43 00-0159 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	3,114.78	
34 05 43 00-0160 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	2,014.73	
34 05 43 00-0161 EA HP12x53 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	433.32	
34 05 43 00-0162 HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0163 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	2,027.73	
34 05 43 00-0164 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	906.84	
34 05 43 00-0165 EA HP12x53 Column Attached To Existing Footing, Temporary Wood Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	275.85	
34 05 43 00-0166 HP14x117 Column Attached to Existing Footing, Permanent Steel Stiffeners, Braced by Angles Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)		
34 05 43 00-0167 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup	5,620.69	
34 05 43 00-0168 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation	3,247.57	
34 05 43 00-0169 EA HP14x117 Column Attached To Existing Footing, Permanent Steel Stiffener, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal	742.50	
34 05 43 00-0170 Mat Supported HP12x63 Column, Braced by Channel and Angles, Attached to Existing 4" Diameter Concrete Column, Temporary Shoring (34 05 43 00-0153) Note: Excludes mats. See CSI section 01 22 23 00-0565 for mats.		
34 05 43 00-0171 EA Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Setup	5,938.69	
Note: Excludes mats.		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0172	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Relocation.....	2,246.08		
		Note: Excludes mats.			
34 05 43 00-0173	EA	Mat Supported HP12x63 Column, Braced By Channel And Angles Attached To Existing 4' Diameter Concrete Column, Temporary Shoring Take Down And Removal.....	1,133.29		
		Note: Excludes mats.			
34 05 43 00-0174		Mat Supported HP12x53 Column, Braced by Channel and Angles, Attached to Abutment Face, Temporary Shoring (34 05 43 00-0153)			
		Note: Excludes mats. See CSI section 01 22 23 00-0565 for mats.			
34 05 43 00-0175	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Setup.....	2,488.63		
34 05 43 00-0176	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Relocation.....	689.51		
		Note: Excludes mats.			
34 05 43 00-0177	EA	Mat Supported HP12x53 Column, Braced By Angles Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	388.50		
		Note: Excludes mats.			
34 05 43 00-0178		MC18x51.9 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0179	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Setup.....	2,994.57		
34 05 43 00-0180	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Relocation.....	2,758.87		
34 05 43 00-0181	EA	MC18x51.9 Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	379.30		
34 05 43 00-0182		MC15x74 Attached to Abutment Face, Temporary Wood Stiffeners, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0183	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Setup.....	2,142.72		
34 05 43 00-0184	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Relocation.....	1,950.80		
34 05 43 00-0185	EA	MC15x74 Attached To Abutment Face, Temporary Shoring Take Down And Removal.....	312.63		
34 05 43 00-0186		Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge Column, Temporary Shoring (34 05 43 00-0153)			
34 05 43 00-0187	EA	Plates And Angles Connecting Existing Diaphragm To Existing Bearing Stiffener At Pedestrian Bridge, Temporary Shoring Setup.....	1,438.10		
		Note: Left in place.			
34 05 43 00-0188		Temporary Bridge Shoring Components (34 05 43 00-0153)			
		Note: For temporary shoring of columns and abutments associated with vertical jacking of structural members. Includes lifting equipment where appropriate. Excludes engineering and design. See CSI section 01 54 23 00-0041 for temporary lumber.			
34 05 43 00-0189		Fabricate, Install And Remove After Use Temporary Steel Bridge Shoring (34 05 43 00-0188)			
		Note: Includes cutting, drilling and welds. Excludes gravel, mats, anchors, and bolts.			
34 05 43 00-0190	LF	Fabricate And Install MC7 x 19.1 For Temorary Bridge Shoring.....	89.90		
		Note: Remove after use.			
34 05 43 00-0191	LF	Fabricate And Install MC18 x 51.9 For Temorary Bridge Shoring.....	222.42		
		Note: Remove after use.			
34 05 43 00-0192	LF	Fabricate And Install HP12 x 53 For Temorary Bridge Shoring.....	172.40		
		Note: Remove after use.			
34 05 43 00-0193	LF	Fabricate And Install HP12 x 63 For Temorary Bridge Shoring.....	192.45		
		Note: Remove after use.			
34 05 43 00-0194	LF	Fabricate And Install 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring.....	25.78		
		Note: Remove after use.			
		<i>For Galvanized Steel, Add</i>	6.16		
34 05 43 00-0195	LF	Fabricate And Install 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring.....	32.77		
		Note: Remove after use.			
		<i>For Galvanized Steel, Add</i>	8.38		
34 05 43 00-0196	LF	Fabricate And Install 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring.....	66.06		
		Note: Remove after use.			
		<i>For Galvanized Steel, Add</i>	18.95		
34 05 43 00-0197	LF	Fabricate And Install 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring.....	57.25		
		Note: Remove after use.			
		<i>For Galvanized Steel, Add</i>	16.98		
34 05 43 00-0198	LF	Fabricate And Install 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring.....	75.75		
		Note: Remove after use.			
		<i>For Galvanized Steel, Add</i>	22.46		
34 05 43 00-0199	SF	Fabricate And Install 5/8" A36 Steel Plates For Temorary Bridge Shoring.....	99.40		
		Note: Remove after use.			
		<i>For A50 Grade Steel, Add</i>	2.80		
34 05 43 00-0200	SF	Fabricate And Install 7/8" A36 Steel Plates For Temorary Bridge Shoring.....	139.14		
		Note: Remove after use.			
		<i>For A50 Grade Steel, Add</i>	3.92		
34 05 43 00-0201	SF	Fabricate And Install 1-3/8" A36 Steel Plates For Temorary Bridge Shoring.....	218.64		
		Note: Remove after use.			
		<i>For A50 Grade Steel, Add</i>	6.16		
34 05 43 00-0202	SF	Fabricate And Install 1-1/2" A36 Steel Plates For Temorary Bridge Shoring.....	238.52		
		Note: Remove after use.			
		<i>For A50 Grade Steel, Add</i>	6.72		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0203 Relocate Temporary Steel Bridge Shoring (34 05 43 00-0188) Note: Includes removal after use.		
34 05 43 00-0204 EA Relocate Complete Temporary Steel Bridge Shoring Note: Remove after use. Includes relocating support mats. Excludes anchors, bolts or additional steel if required.	4,930.77	
34 05 43 00-0205 SF Relocate 1-3/8" A36 Steel Plates For Temorary Bridge Shoring Note: Remove after use.	95.51	
34 05 43 00-0206 LF Relocate HP12 x 63 For Temorary Bridge Shoring..... Note: Remove after use.	78.90	
34 05 43 00-0207 LF Relocate 3" x 3" x 3/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	15.85	
34 05 43 00-0208 LF Relocate 4" x 4" x 3/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	19.25	
34 05 43 00-0209 LF Relocate 7" x 4" x 3/4" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	39.52	
34 05 43 00-0210 SF Relocate 7/8" A36 Steel Plates For Temorary Bridge Shoring..... Note: Remove after use.	60.78	
34 05 43 00-0211 LF Relocate MC7 x 19.1 For Temorary Bridge Shoring Note: Remove after use.	45.75	
34 05 43 00-0212 LF Relocate HP12 x 53 For Temorary Bridge Shoring..... Note: Remove after use.	77.25	
34 05 43 00-0213 SF Relocate 5/8" A36 Steel Plates For Temorary Bridge Shoring..... Note: Remove after use.	43.43	
34 05 43 00-0214 LF Relocate 7" x 4" x 5/8" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	35.50	
34 05 43 00-0215 SF Relocate 1-1/2" A36 Steel Plates For Temorary Bridge Shoring Note: Remove after use.	104.20	
34 05 43 00-0216 LF Relocate MC18 x 51.9 For Temorary Bridge Shoring Note: Remove after use.	132.04	
34 05 43 00-0217 LF Relocate 5" x 3-1/2" x 3/4" Angle Iron For Temorary Bridge Shoring..... Note: Remove after use.	29.87	
34 05 43 00-0218 Pier Caps And Pedestal Replacement For Bridges (34 05 43) See CSI section 03 15 19 00-0001 for anchor bolts.		
34 05 43 00-0219 SF Bridge Wood Formwork For Seats, Pedestals, Pier Caps And Miscellaneous Areas For Bridges.....	31.54	
34 05 43 00-0220 CWT Rebar For Pier Cap Or Pedestals For Bridges	529.42	
34 05 43 00-0221 CY Pour Pedestals For Bridges.....	436.92	
34 05 43 00-0222 CY Demolish Concrete Pedestals For Bridges	4,544.57	
34 05 43 00-0223 CY Pour Pier Cap For Bridges.....	516.39	
34 05 43 00-0224 CY Demolish Concrete Pier Cap For Bridges.....	5,225.77	
34 05 43 00-0225 Bridge Deck Repair (34 05 43)		
34 05 43 00-0226 Bridge Expansion Joint Repair (34 05 43 00-0225) Note: Replace header with semi-flexible polymer nosing system. Includes saw cutting, chipping, sandblasting, forming, backer rod cleaning, primer and debris removal. Excludes disposal.		
34 05 43 00-0227 CF Removal And Replacement Of Header With Semi-Flexible Polymer Nosing System For Bridge Expansion Joint Repair.....	977.23	
34 05 43 00-0228 CF Removal And Replacement Of Header With Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Expansion Joint Repair..... Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.	230.81	
For Up To 24, Add	40.16	
34 05 43 00-0229 CF Removal And Replacement Of Header With Polyester-Based Polymer Patch For Bridge Expansion Joint Repair..... Note: Includes saw cutting, drilling, removing concrete, forming, cleaning, primer, concrete material, reinforcing, dowels, debris removal and disposal. Excludes seal.	235.78	
For Up To 24, Add	40.65	
34 05 43 00-0230 CI Seal Expansion Joints With Rapid Cure Silicone For Bridge Expansion Joint Repair	7.46	
34 05 43 00-0231 CI Seal Expansion Joints With Closed Cell Foam/EVA For Bridge Expansion Joint Repair	0.86	
34 05 43 00-0232 LF Seal Expansion Joints With "V" Shape Preformed Silicone For Bridge Expansion Joint Repair.....	97.68	
For >1,000 To 2,500, Deduct	-9.77	
For >2,500, Deduct	-15.92	
34 05 43 00-0233 LF Seal Expansion Joints With "W" Shape Preformed Silicone For Bridge Expansion Joint Repair.....	103.54	
For >1,000 To 2,500, Deduct	-10.35	
For >2,500, Deduct	-16.80	
34 05 43 00-0234 Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes steel profile and neoprene seal element. Demolition includes saw cutting and disposal of existing strip seal but excludes concrete removal.		
34 05 43 00-0235 LF 1-1/4" x 3-3/4" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	200.15	
For >1,000 To 2,500, Deduct	-20.02	
For >2,500, Deduct	-33.97	
34 05 43 00-0236 LF 1-7/8" x 8" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	227.49	
For >1,000 To 2,500, Deduct	-22.75	
For >2,500, Deduct	-38.23	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
34 05 43 00-0237	LF	1-1/4" x 2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	178.50		
		For >1,000 To 2,500, Deduct	-17.85		
		For >2,500, Deduct	-30.56		
34 05 43 00-0238	LF	1" x 1-1/2" Profile, Remove And Replace Cast In Place Strip Seal Expansion Joint With Neoprene Sealing Element For Concrete Bridge Deck	176.26		
		For >1,000 To 2,500, Deduct	-17.63		
		For >2,500, Deduct	-30.23		
34 05 43 00-0239		Silicone Joint Sealant For Concrete Bridge Deck (34 05 43 00-0225)			
		Note: Installation includes saw cutting, high pressure water wash, sand blast, sweeping, cleaning area, backer rod and silicone sealant.			
34 05 43 00-0240	LF	1" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	29.02		
		For >1,000 To 2,500, Deduct	-2.90		
		For >2,500, Deduct	-5.21		
34 05 43 00-0241	LF	1-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	38.01		
		For >1,000 To 2,500, Deduct	-3.80		
		For >2,500, Deduct	-6.57		
34 05 43 00-0242	LF	2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	53.88		
		For >1,000 To 2,500, Deduct	-5.39		
		For >2,500, Deduct	-8.97		
34 05 43 00-0243	LF	2-1/2" x 1/2" Remove And Replace Expansion And Contraction Silicone Joint Sealant For Concrete Bridge Deck	57.64		
		For >1,000 To 2,500, Deduct	-5.76		
		For >2,500, Deduct	-9.55		
34 05 43 00-0244		V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck (34 05 43 00-0225)			
		Note: Includes saw cutting, sand blasting, conditioner, epoxy, and backer rod.			
34 05 43 00-0245	LF	3" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	95.01		
		For >1,000 To 2,500, Deduct	-9.50		
		For >2,500, Deduct	-16.77		
34 05 43 00-0246	LF	4" Remove And Replace V Shaped Prefomed Extruded EPDM Expansion Joint For Concrete Bridge Deck	100.34		
		For >1,000 To 2,500, Deduct	-10.03		
		For >2,500, Deduct	-17.69		
34 05 43 00-0247		J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck (34 05 43 00-0225)			
		Note: Includes saw cutting, sand blasting, conditioner, and epoxy.			
34 05 43 00-0248	LF	2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	96.46		
		For >1,000 To 2,500, Deduct	-9.65		
		For >2,500, Deduct	-16.77		
34 05 43 00-0249	LF	2-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	114.82		
		For >1,000 To 2,500, Deduct	-11.48		
		For >2,500, Deduct	-19.63		
34 05 43 00-0250	LF	3" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	142.12		
		For >1,000 To 2,500, Deduct	-14.21		
		For >2,500, Deduct	-23.84		
34 05 43 00-0251	LF	3-1/2" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	172.49		
		For >1,000 To 2,500, Deduct	-17.25		
		For >2,500, Deduct	-28.51		
34 05 43 00-0252	LF	4" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	192.66		
		For >1,000 To 2,500, Deduct	-19.27		
		For >2,500, Deduct	-31.66		
34 05 43 00-0253	LF	5" Remove And Replace J Shaped Prefomed Extruded Neoprene Expansion Joint For Concrete Bridge Deck	355.46		
		For >1,000 To 2,500, Deduct	-35.55		
		For >2,500, Deduct	-56.35		
34 05 43 00-0254		Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck (34 05 43 00-0225)			
		Note: Includes saw cutting, sand blasting, and lubricant adhesive.			
34 05 43 00-0255	LF	1-1/4" x 1-1/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	50.76		
		For >1,000 To 2,500, Deduct	-5.08		
		For >2,500, Deduct	-9.70		
34 05 43 00-0256	LF	1-5/8" x 1-7/8" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	55.15		
		For >1,000 To 2,500, Deduct	-5.52		
		For >2,500, Deduct	-10.46		
34 05 43 00-0257	LF	1-3/4" x 1-3/4" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	57.76		
		For >1,000 To 2,500, Deduct	-5.78		
		For >2,500, Deduct	-10.91		
34 05 43 00-0258	LF	2" x 2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	60.89		
		For >1,000 To 2,500, Deduct	-6.09		
		For >2,500, Deduct	-11.43		
34 05 43 00-0259	LF	2-1/2" x 2-1/2" Remove And Replace Prefomed Extruded Neoprene Compression Joint For Concrete Bridge Deck	68.66		
		For >1,000 To 2,500, Deduct	-6.87		
		For >2,500, Deduct	-12.71		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0260	LF	3"	3-1/4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck.....	78.69	
			For >1,000 To 2,500, Deduct	-7.87	
			For >2,500, Deduct	-14.32	
34 05 43 00-0261	LF	3-1/2"	3-1/2" x 3-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	92.56	
			For >1,000 To 2,500, Deduct	-9.26	
			For >2,500, Deduct	-16.52	
34 05 43 00-0262	LF	4"	4" x 4" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	106.70	
			For >1,000 To 2,500, Deduct	-10.67	
			For >2,500, Deduct	-18.77	
34 05 43 00-0263	LF	4-1/2"	4-1/2" x 4-1/2" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	112.56	
			For >1,000 To 2,500, Deduct	-11.26	
			For >2,500, Deduct	-19.78	
34 05 43 00-0264	LF	5"	5" x 5" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	128.76	
			For >1,000 To 2,500, Deduct	-12.88	
			For >2,500, Deduct	-22.34	
34 05 43 00-0265	LF	6"	6" x 6" Remove And Replace Preformed Extruded Neoprene Compression Joint For Concrete Bridge Deck	183.84	
			For >1,000 To 2,500, Deduct	-18.38	
			For >2,500, Deduct	-30.75	
34 05 43 00-0266			Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck (34 05 43 00-0225) Note: Includes saw cutting, sand blasting and epoxy.		
34 05 43 00-0267	LF	1/2"	1/2" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	44.23	
			For >1,000 To 2,500, Deduct	-4.42	
			For >2,500, Deduct	-8.54	
34 05 43 00-0268	LF	5/8"	5/8" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	45.48	
			For >1,000 To 2,500, Deduct	-4.55	
			For >2,500, Deduct	-8.77	
34 05 43 00-0269	LF	3/4"	3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	46.72	
			For >1,000 To 2,500, Deduct	-4.67	
			For >2,500, Deduct	-9.00	
34 05 43 00-0270	LF	1"	1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	48.33	
			For >1,000 To 2,500, Deduct	-4.83	
			For >2,500, Deduct	-9.29	
34 05 43 00-0271	LF	1-1/4"	1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	49.97	
			For >1,000 To 2,500, Deduct	-5.00	
			For >2,500, Deduct	-9.59	
34 05 43 00-0272	LF	1-1/2"	1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	68.19	
			For >1,000 To 2,500, Deduct	-6.82	
			For >2,500, Deduct	-12.37	
34 05 43 00-0273	LF	1-3/4"	1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	72.56	
			For >1,000 To 2,500, Deduct	-7.26	
			For >2,500, Deduct	-13.13	
34 05 43 00-0274	LF	2"	2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	75.25	
			For >1,000 To 2,500, Deduct	-7.53	
			For >2,500, Deduct	-13.59	
34 05 43 00-0275	LF	2-1/4"	2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	79.42	
			For >1,000 To 2,500, Deduct	-7.94	
			For >2,500, Deduct	-14.27	
34 05 43 00-0276	LF	2-1/2"	2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	84.13	
			For >1,000 To 2,500, Deduct	-8.41	
			For >2,500, Deduct	-15.03	
34 05 43 00-0277	LF	2-3/4"	2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	89.05	
			For >1,000 To 2,500, Deduct	-8.91	
			For >2,500, Deduct	-15.82	
34 05 43 00-0278	LF	3"	3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	91.66	
			For >1,000 To 2,500, Deduct	-9.17	
			For >2,500, Deduct	-16.27	
34 05 43 00-0279	LF	3-1/4"	3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	99.96	
			For >1,000 To 2,500, Deduct	-10.00	
			For >2,500, Deduct	-17.57	
34 05 43 00-0280	LF	3-1/2"	3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	106.84	
			For >1,000 To 2,500, Deduct	-10.68	
			For >2,500, Deduct	-18.67	
34 05 43 00-0281	LF	3-3/4"	3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck	112.79	
			For >1,000 To 2,500, Deduct	-11.28	
			For >2,500, Deduct	-19.62	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0282	LF	4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Joint For Concrete Bridge Deck.....	115.53	
		For >1,000 To 2,500, Deduct	-11.55	
		For >2,500, Deduct	-20.09	
34 05 43 00-0283	EA	3/4" x 1-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	149.03	
34 05 43 00-0284	EA	1" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	153.66	
34 05 43 00-0285	EA	1-1/4" x 2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	175.92	
34 05 43 00-0286	EA	1-1/2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	183.28	
34 05 43 00-0287	EA	1-3/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	189.71	
34 05 43 00-0288	EA	2" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	215.38	
34 05 43 00-0289	EA	2-1/4" x 2-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	221.15	
34 05 43 00-0290	EA	2-1/2" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	227.84	
34 05 43 00-0291	EA	2-3/4" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	234.90	
34 05 43 00-0292	EA	3" x 2-3/4" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	267.93	
34 05 43 00-0293	EA	3-1/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	280.78	
34 05 43 00-0294	EA	3-1/2" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	291.24	
34 05 43 00-0295	EA	3-3/4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	300.08	
34 05 43 00-0296	EA	4" x 3-1/2" Remove And Replace Silicone Coated Precompressed, Impregnated Cellular Polyurethane Foam Universal 90 Degree Fitting For Concrete Bridge Deck.....	304.29	
34 05 43 00-0297 Remove Existing Steel Joint System (34 05 43 00-0225)				
34 05 43 00-0298	LF	Removal Of Existing Steel Joint System.....	68.96	
34 05 43 00-0299 Break-Up And Remove Bridge Decking By Machine (34 05 43 00-0225)				
Note: Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting, See CSI section 02 41 19 13-0057 for saw cutting.				
34 05 43 00-0300	SY	Break-Up And Remove Up To 3" Thick Bituminous Pavement Bridge Decking By Machine.....	22.40	
		For >500 To 1,000, Deduct	-2.24	
		For >1,000 To 2,500, Deduct	-4.03	
		For >2,500 To 5,000, Deduct	-5.82	
		For >5,000 To 10,000, Deduct	-7.62	
		For >10,000, Deduct	-9.41	
34 05 43 00-0301	SY	Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Machine.....	30.60	
		For >500 To 1,000, Deduct	-3.06	
		For >1,000 To 2,500, Deduct	-5.51	
		For >2,500 To 5,000, Deduct	-7.96	
		For >5,000 To 10,000, Deduct	-10.40	
		For >10,000, Deduct	-12.85	
34 05 43 00-0302	SY	Break-Up And Remove To 3" Thick Concrete With Reinforcing Bridge Decking By Machine.....	37.11	
		For >500 To 1,000, Deduct	-3.71	
		For >1,000 To 2,500, Deduct	-6.68	
		For >2,500 To 5,000, Deduct	-9.65	
		For >5,000 To 10,000, Deduct	-12.62	
		For >10,000, Deduct	-15.59	
34 05 43 00-0303	SY	Break-Up And Remove > 3" To 6" Thick Concrete With Reinforcing Bridge Decking By Machine.....	47.71	
		For >500 To 1,000, Deduct	-4.77	
		For >1,000 To 2,500, Deduct	-8.59	
		For >2,500 To 5,000, Deduct	-12.40	
		For >5,000 To 10,000, Deduct	-16.22	
		For >10,000, Deduct	-20.04	
34 05 43 00-0304	SY	Break-Up And Remove > 6" To 9" Thick Concrete With Reinforcing Bridge Decking By Machine.....	85.31	
		For >500 To 1,000, Deduct	-8.53	
		For >1,000 To 2,500, Deduct	-15.36	
		For >2,500 To 5,000, Deduct	-22.18	
		For >5,000 To 10,000, Deduct	-29.01	
		For >10,000, Deduct	-35.83	
34 05 43 00-0305	SY	Break-Up And Remove >9" To 14" Thick Concrete With Reinforcing Bridge Decking By Machine.....	111.34	
		For >500 To 1,000, Deduct	-11.13	
		For >1,000 To 2,500, Deduct	-20.04	
		For >2,500 To 5,000, Deduct	-28.95	
		For >5,000 To 10,000, Deduct	-37.86	
		For >10,000, Deduct	-46.76	
34 05 43 00-0306	SY	Break-Up And Remove >14" To 19" Thick Concrete With Reinforcing Bridge Decking By Machine.....	145.56	
		For >500 To 1,000, Deduct	-14.56	
		For >1,000 To 2,500, Deduct	-26.20	
		For >2,500 To 5,000, Deduct	-37.85	
		For >5,000 To 10,000, Deduct	-49.49	
		For >10,000, Deduct	-61.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0307 SY Break-Up And Remove >19" To 24" Thick Concrete With Reinforcing Bridge Decking By Machine For >500 To 1,000, Deduct For >1,000 To 2,500, Deduct For >2,500 To 5,000, Deduct For >5,000 To 10,000, Deduct For >10,000, Deduct	176.65 -17.67 -31.80 -45.93 -60.06 -74.19	
34 05 43 00-0308 Break-Up And Remove Bridge Decking By Hand (34 05 43 00-0225) Note: Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0057 for saw cutting.		
34 05 43 00-0309 SF Break-Up And Remove 1" To 3" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	14.25	
34 05 43 00-0310 SF Break-Up And Remove >3" To 6" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	18.75	
34 05 43 00-0311 SF Break-Up And Remove >6" To 8" Thick Bituminous Pavement Bridge Decking By Hand Note: Includes jackhammer and hand tools.	24.38	
34 05 43 00-0312 SF Break-Up And Remove 1" To 3" Thick Concrete Bridge Decking By Hand Note: Includes jackhammer and hand tools.	17.81	
34 05 43 00-0313 SF Break-Up And Remove >3" To 6" Thick Concrete Bridge Decking By Hand Note: Includes jackhammer and hand tools.	22.27	
34 05 43 00-0314 SF Break-Up And Remove >6" To 8" Thick Concrete Bridge Decking By Hand Note: Includes jackhammer and hand tools.	26.73	
34 05 43 00-0315 SF Chipping And Cleaning Of Bridge Deck After Break-up And Removals.....	6.29	
34 05 43 00-0316 Hydro Blasting Of Bridge Decks (34 05 43 00-0225) Note: Excludes hauling and disposal of water and debris.		
34 05 43 00-0317 EA Mobilization Of Hydro Blasting Equipment..... Note: Includes trailer with power, hydro milling machine, vacuum machine.	14,805.47	
34 05 43 00-0318 EA Mobilization Of Hydro Blasting Equipment..... Note: Includes water tank, pump and miscellaneous fittings.	1,922.79	
34 05 43 00-0319 SF Hydroblasting Of Up To 2-1/2" Of Bridge Decks.....	13.15	
34 05 43 00-0320 SF Vacuuming And Cleaning Of Bridge Decks Up To 2-1/2", Following Hydroblasting	9.72	
34 05 43 00-0321 SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum Up To 2-1/2".....	2.40	
34 05 43 00-0322 SF Hydroblasting 3" To 4-1/2" Of Bridge Decks.....	19.44	
34 05 43 00-0323 SF Vacuuming And Cleaning Of Bridge Decks 3" To 4-1/2", Following Hydroblasting.....	13.15	
34 05 43 00-0324 SF Chipping And Cleaning Of Bridge Deck After Hydroblasting And Vacuum 3" To 4-1/2"	6.29	
34 05 43 00-0325 GAL Water For Hydro Blasting Note: Includes delivery.	0.18	
34 05 43 00-0326 Patch For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0327 CF Fast-Setting, Rapid-Hardening Structural Repair Mortar For Bridge Deck Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.	102.80	
34 05 43 00-0328 CF Polyester-Based Polymer Patch For Bridge Deck Note: Includes forming, cleaning, primer, and concrete material. Excludes reinforcing, dowels, and seal.	107.77	
34 05 43 00-0329 SF Hand Placed Hot Mixed Asphalt Repair For Bridge Approach..... Note: Includes removal of HMA, tack coat, and installation of HMA and compaction by roller.	26.40	
34 05 43 00-0330 Pressure Washing For Bridge Deck (34 05 43 00-0225)		
34 05 43 00-0331 SF Pressure Washing For Bridge Deck..... Note: Includes pressure washer and water.	0.09	
34 05 43 00-0332 Galvanic Anodes For Bridges (34 05 43)		
34 05 43 00-0333 EA 2.6" Diameter x 1.2" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP)..... Note: Corrosion prevention only (preventing the initiation of corrosion).	60.08	
34 05 43 00-0334 EA 4.9" Long x 1.0" Wide x 1.0" Deep , Anode Type 1A Class P, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XPT)..... Note: Corrosion prevention only (preventing the initiation of corrosion).	60.08	
34 05 43 00-0335 EA 2.8" Long x 2.4" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP2)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	68.67	
34 05 43 00-0336 EA 4.3" Long x 2.2" Wide x 1.2" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP4)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	75.19	
34 05 43 00-0337 EA 2.5" Diameter x 1.1" Deep , Anode Type 1A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® XP+)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	68.67	
34 05 43 00-0338 EA 1-3/4" Diameter x 2-1/2" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC65)..... Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).	70.84	

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0339 EA 1-3/4" Diameter x 4" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC100).....	86.06	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0340 EA 1-1/8" Diameter x 5-3/8" Long, Anode Type 2A Class C, Galvanic Anodes Embedded In Concrete Patch (Galvashield® CC135).....	79.54	
Note: Corrosion control (reducing existing active corrosion) and corrosion prevention (preventing the initiation of corrosion).		
34 05 43 00-0341 Bridge Netting Panels (34 05 43)		
34 05 43 00-0342 SF Bridge Netting Panel.....	10.25	
Note: Includes cable, beam clamps to attach to the bridge structure without the need for drilling/welding and snap hooks for attaching the net.		
For Up To 160, Add	10.24	
For >160 To 320, Add	5.12	
For >320 To 480, Add	2.56	
For >2,000 To 10,000, Deduct	-0.45	
For >10,000 To 25,000, Deduct	-0.90	
For >25,000, Deduct	-1.35	
34 05 43 00-0343 Anchors For Bridges (34 05 43)		
Note: Excludes core drilling. See CSI section 02 41 19 13-0080 for core drilling.		
34 05 43 00-0344 Threaded Rod, A449 (34 05 43 00-0343)		
34 05 43 00-0345 LF 7/8" Diameter Continuous Threaded Rod, A449.....	21.70	
34 05 43 00-0346 LF 1" Diameter Continuous Threaded Rod, A449.....	25.80	
34 05 43 00-0347 LF 1-1/8" Diameter Continuous Threaded Rod, A449.....	29.89	
34 05 43 00-0348 LF 1-1/4" Diameter Continuous Threaded Rod, A449.....	37.75	
34 05 43 00-0349 Flat Washers, F436 (34 05 43 00-0343)		
34 05 43 00-0350 EA 7/8" Flat Washer, F436.....	2.35	
34 05 43 00-0351 EA 1" Flat Washer, F436.....	2.73	
34 05 43 00-0352 EA 1-1/8" Flat Washer, F436.....	3.01	
34 05 43 00-0353 EA 1-1/4" Flat Washer, F436.....	3.43	
34 05 43 00-0354 Heavy Hex Nut, A194 (34 05 43 00-0343)		
34 05 43 00-0355 EA 7/8" Hex Nut, A194.....	4.74	
34 05 43 00-0356 EA 1" Hex Nut, A194.....	6.44	
34 05 43 00-0357 EA 1-1/8" Hex Nut, A194.....	7.62	
34 05 43 00-0358 EA 1-1/4" Hex Nut, A194.....	9.11	
34 05 43 00-0359 Grout For Threaded Rod (34 05 43 00-0343)		
34 05 43 00-0360 IN Grout 7/8" Rod In Hole.....	3.20	
34 05 43 00-0361 IN Grout 1" Rod In Hole.....	3.65	
34 05 43 00-0362 IN Grout 1-1/8" Rod In Hole.....	4.26	
34 05 43 00-0363 IN Grout 1-1/4" Rod In Hole.....	5.09	
34 05 43 00-0364 Test Grouted Anchor (34 05 43 00-0343)		
34 05 43 00-0365 EA Test Grouted Anchor.....	36.62	
34 05 43 00-0366 Removal Of Fasteners Or Anchors In Concrete (34 05 43 00-0343)		
Note: Includes removal of damaged, chemically adhered or mechanically fastened bolts, studs, threaded rod or concrete anchors with a carbide drill bit.		
34 05 43 00-0367 EA Drill Out 3/8" Diameter Fastener/Anchor In Concrete.....	29.98	
34 05 43 00-0368 EA Drill Out 1/2" Diameter Fastener/Anchor In Concrete.....	32.25	
34 05 43 00-0369 EA Drill Out 9/16" Diameter Fastener/Anchor In Concrete.....	33.83	
34 05 43 00-0370 EA Drill Out 5/8" Diameter Fastener/Anchor In Concrete.....	36.83	
34 05 43 00-0371 EA Drill Out 3/4" Diameter Fastener/Anchor In Concrete.....	40.26	
34 05 43 00-0372 EA Drill Out 7/8" Diameter Fastener/Anchor In Concrete.....	44.58	
34 05 43 00-0373 EA Drill Out 1" Diameter Fastener/Anchor In Concrete.....	47.14	
34 05 43 00-0374 EA Drill Out 1-1/8" Diameter Fastener/Anchor In Concrete.....	50.19	
34 05 43 00-0375 EA Drill Out 1-1/4" Diameter Fastener/Anchor In Concrete.....	54.00	
34 05 43 00-0376 EA Drill Out 1-1/2" Diameter Fastener/Anchor In Concrete.....	60.59	
34 05 43 00-0377 Bridge Surfacing (34 05 43)		
34 05 43 00-0378 Bridge Coatings (34 05 43 00-0377)		
Note: Includes sweeping of bridge deck.		
34 05 43 00-0379 SF Penetrating Corrosion Inhibitor Sealer For Bridge Decks (Two Coats).....	1.24	
Note: Includes power washing and drying after power washing.		
34 05 43 00-0380 SF Protective Seal Coat For Existing Bridge Decks.....	2.29	
34 05 43 00-0381 SF Penetrating Sealer For Existing Bridge Decks.....	3.78	



Transportation		34
Common Work Results for Transportation		34 05
Common Work Results for Bridges		34 05 43

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
34 05 43 00-0382	Bridge Membranes (34 05 43 00-0377) Note: Excludes abrasive blasting of deck.				
34 05 43 00-0383	SF	Spray Applied Waterproofing Membrane For Bridge Decks	14.42		
34 05 43 00-0384	SF	Sheet Applied Waterproofing Membrane For Bridge Decks	4.18		
34 05 43 00-0385	Sealer And Overlay For Bridge Deck (34 05 43 00-0377) Note: Excludes sweeping, cleaning and abrasive blasting.				
34 05 43 00-0386	SY	Shot Blasting Bridge Decks	15.12		
		Note: Includes steel ball media. Includes air cleaning of deck surface after shot blasting.			
34 05 43 00-0387	SY	Thin Polymer (Epoxy) Overlay For Bridge Deck	96.31		
		Note: Includes epoxy overlay applied in two coats with aggregate.			
34 05 43 00-0388	SY	3/4" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	173.58		
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.			
34 05 43 00-0389	SY	1" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	198.47		
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.			
34 05 43 00-0390	SY	1-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	254.18		
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.			
34 05 43 00-0391	SY	2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	309.90		
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.			
34 05 43 00-0392	SY	2-1/2" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	365.62		
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.			
34 05 43 00-0393	SY	3" Thin Polyester Polymer Overlay Wearing Surface For Bridge Deck.....	421.33		
		Note: Includes HMWM resin primer and polyester concrete. Excludes finishing sand.			
34 05 43 00-0394	Broadcast Silica Sand (34 05 43 00-0377) Note: Includes removing loose sand..				
34 05 43 00-0395	SF	Broadcast Silica Sand.....	0.32		
34 05 43 00-0396	Sweeping And Cleaning Of Bridge Deck (34 05 43 00-0377) See CSI section 01 22 23 00-1314 for water trucks, 01 22 23 00-1332 for vacuum sweeper trucks.				
34 05 43 00-0397	Concrete Overlay For Bridge Deck (34 05 43 00-0377) Note: Includes sweeping and cleaning. Excludes abrasive blasting.				
34 05 43 00-0398	SY	3" Concrete Overlay For Bridge Deck.....	188.79		
		For DOT Class DP, Add	37.40		
		For DOT Class E, Add	12.20		
		For DOT Class HP, Add	35.71		
34 05 43 00-0399	Bridge Roadway Grooving (34 05 43 00-0377)				
34 05 43 00-0400	EA	Up To 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal.....	4,267.76		
34 05 43 00-0401	SY	Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Longitudinal.....	6.92		
34 05 43 00-0402	EA	Up To 500 SY Of Bridge Pavement Grooving, Concrete, Traverse.....	4,754.44		
34 05 43 00-0403	SY	Each SY Over First 500 SY Of Bridge Pavement Grooving, Concrete, Traverse	9.01		
34 05 43 00-0404	Gravity Fed Concrete Crack Repair (34 05 43 00-0377) Note: Includes removing loose materials and cleaning.				
34 05 43 00-0405	LF	Epoxy Low Viscosity Gravity Fed Concrete Crack Repair	3.77		
34 05 43 00-0406	LF	HMWM Low Viscosity Gravity Fed Concrete Crack Repair	4.42		
34 05 43 00-0407	Concrete Pumping With Boom Truck (34 05 43 00-0377) See CSI section 03 31 13 00-0010 for concrete delivery for small quantities, 03 37 16 00-0001 for concrete pump truck.				
34 05 43 00-0408	Bridge Girder Repair (34 05 43)				
34 05 43 00-0409	Bridge Girder Repair (34 05 43 00-0408) Note: Does not include mobilization of bridge jacking crew. See CSI section 05 05 23 00-0042 for bolts, nuts and washers, 05 12 23 00-0000 for additional steel shapes, angles and channels.				
34 05 43 00-0410	HR	UT, MT, PT Testing	75.00		
		Note: Does not include mileage to job site.			
34 05 43 00-0411	EA	Mobilization of Bridge Girder Repair Crew.....	2,630.96		
34 05 43 00-0412	LF	3" x 3" x 1/4" Angle Iron For Bridge Repair	14.80		6.03
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00		
		For Fractured Critical, Add	20.00		
		For Stainless Steel, Add	21.63		
		For Aluminum, Add	1.22		
		For Galvanized Steel, Add	4.19		
34 05 43 00-0413	LF	4" x 4" x 1/4" Angle Iron For Bridge Repair	18.94		7.36
		Cutting Fee For Channels And Angles, Add Per Each Piece	20.00		
		For Fractured Critical, Add	20.00		
		For Stainless Steel, Add	29.22		
		For Aluminum, Add	1.64		
		For Galvanized Steel, Add	5.66		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0414	LF		3" x 3" x 3/8" Angle Iron For Bridge Repair.....	18.98	6.79
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	31.78	
			For Aluminum, Add	1.79	
			For Galvanized Steel, Add	6.16	
34 05 43 00-0415	LF		4" x 4" x 3/8" Angle Iron For Bridge Repair.....	24.52	8.25
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	43.26	
			For Aluminum, Add	2.43	
			For Galvanized Steel, Add	8.38	
34 05 43 00-0416	LF		6" x 4" x 3/8" Angle Iron For Bridge Repair.....	31.37	10.77
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	54.43	
			For Aluminum, Add	3.06	
			For Galvanized Steel, Add	10.55	
34 05 43 00-0417	LF		6" x 6" x 3/8" Angle Iron For Bridge Repair.....	34.97	10.77
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	65.95	
			For Aluminum, Add	3.71	
			For Galvanized Steel, Add	12.78	
34 05 43 00-0418	LF		6" x 6" x 1/2" Angle Iron For Bridge Repair.....	46.38	14.46
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	86.72	
			For Aluminum, Add	4.88	
			For Galvanized Steel, Add	16.80	
34 05 43 00-0419	LF		7" x 4" x 5/8" Angle Iron For Bridge Repair.....	50.88	15.24
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	97.79	
			For Aluminum, Add	5.50	
			For Galvanized Steel, Add	18.95	
34 05 43 00-0420	LF		5" x 3-1/2" x 3/4" Angle Iron For Bridge Repair.....	44.45	12.80
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	87.62	
			For Aluminum, Add	4.93	
			For Galvanized Steel, Add	16.98	
34 05 43 00-0421	LF		6" x 4" x 3/4" Angle Iron For Bridge Repair.....	52.98	15.26
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	104.45	
			For Aluminum, Add	5.88	
			For Galvanized Steel, Add	20.24	
34 05 43 00-0422	LF		7" x 4" x 3/4" Angle Iron For Bridge Repair.....	58.82	16.94
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	115.94	
			For Aluminum, Add	6.52	
			For Galvanized Steel, Add	22.46	
34 05 43 00-0423	LF		8" x 6" x 7/8" Angle Iron For Bridge Repair.....	85.53	23.60
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	173.02	
			For Aluminum, Add	9.73	
			For Galvanized Steel, Add	33.52	
34 05 43 00-0424	LF		C4 x 5.4 - 4" Wide Channels For Bridge Repair.....	17.82	7.76
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	23.90	
			For Aluminum, Add	1.34	
			For Galvanized Steel, Add	4.63	
34 05 43 00-0425	LF		C6 x 8.2 - 6" Wide Channels For Bridge Repair.....	25.82	10.86
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	36.29	
			For Aluminum, Add	2.04	
			For Galvanized Steel, Add	7.03	
34 05 43 00-0426	LF		C8 x 11.5 - 8" Wide Channels For Bridge Repair.....	34.87	14.22
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	50.88	
			For Aluminum, Add	2.86	
			For Galvanized Steel, Add	9.86	
34 05 43 00-0427	LF		C10 x 15.3 - 10" Wide Channels For Bridge Repair.....	46.37	18.92
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	67.68	
			For Aluminum, Add	3.81	
			For Galvanized Steel, Add	13.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0428	LF		C12 x 20.7 - 12" Wide Channels For Bridge Repair	62.76	25.61
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	91.58	
			For Aluminum, Add	5.15	
			For Galvanized Steel, Add	17.74	
34 05 43 00-0429	LF		C15 x 33.9 - 15" Wide Channels For Bridge Repair	102.78	41.93
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
			For Fractured Critical, Add	20.00	
			For Stainless Steel, Add	149.98	
			For Aluminum, Add	8.44	
			For Galvanized Steel, Add	29.06	
34 05 43 00-0430	SF		1/2" A36 Steel Plates For Bridge Repair	62.14	16.50
			For A50 Grade Steel, Add	2.24	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0431	SF		5/8" A36 Steel Plates For Bridge Repair	77.68	20.63
			For A50 Grade Steel, Add	2.80	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0432	SF		3/4" A36 Steel Plates For Bridge Repair	93.21	24.63
			For A50 Grade Steel, Add	3.36	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0433	SF		7/8" A36 Steel Plates For Bridge Repair	108.75	28.87
			For A50 Grade Steel, Add	3.92	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0434	SF		1" A36 Steel Plates For Bridge Repair	124.28	33.00
			For A50 Grade Steel, Add	4.48	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0435	SF		1-1/4" A36 Steel Plates For Bridge Repair	155.36	41.25
			For A50 Grade Steel, Add	5.60	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0436	SF		1-3/8" A36 Steel Plates For Bridge Repair	170.89	45.38
			For A50 Grade Steel, Add	6.16	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0437	SF		1-1/2" A36 Steel Plates For Bridge Repair	186.43	49.50
			For A50 Grade Steel, Add	6.72	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			For Fractured Critical, Add	20.00	
34 05 43 00-0438	CWT		Removal Of Existing Steel For Bridge Repair A36	70.85	
			Note: For use with angles, channels and steel plates up to 5' x 5'.		
			For Removal Over 30' To 50', Add	14.17	
			For Removal Over 50' To 75', Add	24.80	
			For Removal Over 75', Add	35.43	
34 05 43 00-0439	TON		Removal Of Existing Steel For Bridge Repair A36	944.68	
			Note: For use with I-beams, floor beams and plates over 5' x 5'.		
			For Removal Over 30' To 50', Add	188.94	
			For Removal Over 50' To 75', Add	330.64	
			For Removal Over 75', Add	472.34	
34 05 43 00-0440	CWT		Miscellaneous Steel For Bridge Repair A36	473.64	
			Note: For use with angles, channels and steel plates up to 5' x 5'.		
			For A50 Grade Steel, Add	80.56	
			Cutting Fee For Plates 1/2" And Over, Add Per Each Piece	30.00	
			Cutting Fee For Channels And Angles, Add Per Each Piece	20.00	
34 05 43 00-0441	TON		Miscellaneous Steel For Bridge Repair A36	7,556.15	
			Note: For use with I-beams, floor beams and plates over 5' x 5'.		
			For A50 Grade Steel, Add	1,322.29	
			Cutting Fee For I-beams, Floor Beams And Plates Over 5' x 5', Add Per Each Piece	30.00	
34 05 43 00-0442	EA		Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair Up To 15/16" Diameter	39.39	
			Note: Per each hole drilled per steel member.		
34 05 43 00-0443	EA		Field Or Shop Drilled Holes In Miscellaneous Steel For Bridge Repair >15/16" Diameter	51.19	
			Note: Per each hole drilled per steel member.		
34 05 43 00-0444	EA		Bolts A325 For Steel Repair Connections Up To 7/8"	30.77	2.29
34 05 43 00-0445	EA		Bridge Girder Rivet Removal	356.34	
34 05 43 00-0446	LF		Up To 1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	7.67	
			Note: Includes rust or scale removal.		
34 05 43 00-0447	LF		>1/2" To 1" Thick Edge Grinding, Smoothing Surface After Torch Cutting	13.41	
			Note: Includes rust or scale removal.		
34 05 43 00-0448	LF		>1" To 1-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	19.16	
			Note: Includes rust or scale removal.		
34 05 43 00-0449	LF		>1-1/2" To 2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	24.91	
			Note: Includes rust or scale removal.		
34 05 43 00-0450	LF		>2" To 2-1/2" Thick Edge Grinding, Smoothing Surface After Torch Cutting	30.65	
			Note: Includes rust or scale removal.		
34 05 43 00-0451	LF		>2-1/2" To 3" Thick Edge Grinding, Smoothing Surface After Torch Cutting	36.40	
			Note: Includes rust or scale removal.		

34 05 43 00-0452 Cleaning And Preparation Of Painted And Unpainted Metal Surfaces (34 05 43 00-0408)

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0453 SF Loose Mill Scale With Fine Powder, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.18	
For Up To 100, Add	0.73	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.11	
For >15,000 To 30,000, Deduct	-0.17	
For >30,000, Deduct	-0.23	
34 05 43 00-0454 SF Tight Mill Scale With Fine Powder Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	1.62	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 15,000, Deduct	-0.15	
For >15,000 To 30,000, Deduct	-0.23	
For >30,000, Deduct	-0.31	
34 05 43 00-0455 SF Exterior Coating Blistered Pitted, Rust, Commercial Blast, Surface Preparation, Bridge Girder Repair	2.37	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.29	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 15,000, Deduct	-0.22	
For >15,000 To 30,000, Deduct	-0.34	
For >30,000, Deduct	-0.45	
34 05 43 00-0456 SF Badly Pitted With Rust Nodules, Commercial Blast, Surface Preparation, Bridge Girder Repair	3.96	
For Up To 100, Add	2.43	
For >100 To 250, Add	1.13	
For >250 To 500, Add	0.49	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 15,000, Deduct	-0.37	
For >15,000 To 30,000, Deduct	-0.57	
For >30,000, Deduct	-0.76	
34 05 43 00-0457 SF Loose Mill Scale With Fine Powder Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.02	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.36	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 15,000, Deduct	-0.28	
For >15,000 To 30,000, Deduct	-0.44	
For >30,000, Deduct	-0.57	
34 05 43 00-0458 SF Tight Mill Scale Little Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	3.74	
For Up To 100, Add	2.24	
For >100 To 250, Add	1.05	
For >250 To 500, Add	0.45	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 15,000, Deduct	-0.34	
For >15,000 To 30,000, Deduct	-0.54	
For >30,000, Deduct	-0.71	
34 05 43 00-0459 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Surface Preparation, Bridge Girder Repair	4.85	
For Up To 100, Add	2.92	
For >100 To 250, Add	1.36	
For >250 To 500, Add	0.58	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 15,000, Deduct	-0.45	
For >15,000 To 30,000, Deduct	-0.70	
For >30,000, Deduct	-0.92	
34 05 43 00-0460 SF Badly Pitted Rust Nodules, Near White Blast, Surface Preparation, Bridge Girder Repair	6.05	
For Up To 100, Add	3.64	
For >100 To 250, Add	1.70	
For >250 To 500, Add	0.73	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 15,000, Deduct	-0.56	
For >15,000 To 30,000, Deduct	-0.87	
For >30,000, Deduct	-1.15	
34 05 43 00-0461 Galvanized Anchor Bolts For Bridge Bearings (34 05 43 00-0408)		
34 05 43 00-0462 EA 1/2" Diameter x 6" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	15.20	
34 05 43 00-0463 EA 1/2" Diameter x 12" Long, J-Type Galvanized Anchor Bolts For Bridge Bearings	25.06	
34 05 43 00-0464 EA 1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	31.46	
34 05 43 00-0465 EA 5/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	37.64	
34 05 43 00-0466 EA 5/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	47.48	
34 05 43 00-0467 EA 5/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	53.74	
34 05 43 00-0468 EA 3/4" Diameter x 8" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	53.45	
34 05 43 00-0469 EA 3/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	61.57	
34 05 43 00-0470 EA 3/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	76.52	
34 05 43 00-0471 EA 3/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	94.08	
34 05 43 00-0472 EA 7/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	71.49	
34 05 43 00-0473 EA 7/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	84.69	
34 05 43 00-0474 EA 7/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	109.66	
34 05 43 00-0475 EA 1" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	89.93	
34 05 43 00-0476 EA 1" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	107.51	
34 05 43 00-0477 EA 1" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	133.57	
34 05 43 00-0478 EA 1" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	163.96	
34 05 43 00-0479 EA 1-1/8" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings	109.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 05 43 00-0480 EA 1-1/8" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	130.96	
34 05 43 00-0481 EA 1-1/8" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	162.87	
34 05 43 00-0482 EA 1-1/8" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	199.80	
34 05 43 00-0483 EA 1-1/4" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	133.81	
34 05 43 00-0484 EA 1-1/4" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	160.21	
34 05 43 00-0485 EA 1-1/4" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	199.39	
34 05 43 00-0486 EA 1-1/4" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	244.44	
34 05 43 00-0487 EA 1-1/2" Diameter x 12" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	164.25	
34 05 43 00-0488 EA 1-1/2" Diameter x 18" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	196.72	
34 05 43 00-0489 EA 1-1/2" Diameter x 24" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	245.04	
34 05 43 00-0490 EA 1-1/2" Diameter x 36" Long, J-Type A449 Galvanized Anchor Bolts For Bridge Bearings.....	300.28	
34 05 43 00-0491 Welding For Bridge Repair (34 05 43 00-0408)		
34 05 43 00-0492 EA Minimum Charge For Welding For Bridge Repair.....	2,277.50	
Note: For projects where the total welding charge is less than the minimum charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
34 05 43 00-0493 LF 3/16" Fillet Welding For Bridge Repair.....	16.80	
For Full Penetration Weld, Add	6.27	
34 05 43 00-0494 LF 1/4" Fillet Welding For Bridge Repair.....	25.24	
For Full Penetration Weld, Add	9.41	
34 05 43 00-0495 LF 5/16" Fillet Welding For Bridge Repair.....	33.67	
For Full Penetration Weld, Add	12.54	
34 05 43 00-0496 LF 3/8" Fillet Welding For Bridge Repair.....	42.04	
For Full Penetration Weld, Add	15.68	
34 05 43 00-0497 LF 7/16" Fillet Welding For Bridge Repair.....	49.28	
For Full Penetration Weld, Add	18.81	
34 05 43 00-0498 LF 1/2" Fillet Welding For Bridge Repair.....	58.41	
For Full Penetration Weld, Add	21.77	
34 05 43 00-0499 LF 9/16" Fillet Welding For Bridge Repair.....	67.70	
For Full Penetration Weld, Add	25.65	
34 05 43 00-0500 LF 5/8" Fillet Welding For Bridge Repair.....	74.76	
For Full Penetration Weld, Add	28.22	
34 05 43 00-0501 LF 3/4" Fillet Welding For Bridge Repair.....	103.65	
For Full Penetration Weld, Add	38.56	
34 05 43 00-0502 LF 7/8" Fillet Welding For Bridge Repair.....	135.87	
For Full Penetration Weld, Add	51.12	
34 05 43 00-0503 LF 1" Fillet Welding For Bridge Repair.....	189.89	
For Full Penetration Weld, Add	70.54	
34 05 43 00-0504 Bridge Trough Repair (34 05 43)		
34 05 43 00-0505 EA New Bridge Trough Hanger.....	317.82	28.74
34 05 43 00-0506 EA Reattach By Welding Existing Bridge Trough Hanger, Top And/or Bottom.....	75.27	
34 05 43 00-0507 EA Removal And Replacement Of All Thread For Existing Bridge Trough Hanger.....	136.30	
34 05 43 00-0508 EA Removal And Replacement Of Steel Angle Attachment For Existing Bridge Trough Hanger.....	74.57	
34 05 43 00-0509 Spot Paint Removal And Painting, Bridge Structural Steel (34 05 43)		
34 05 43 00-0510 HR Testing For Lead And Asbestos Paint Removal By Asbestos Contractor.....	131.08	
34 05 43 00-0511 EA Up To 4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	228.01	
34 05 43 00-0512 SF >4 SF, Flat Surfaces, Non-Contaminated Paint Removal.....	57.01	
34 05 43 00-0513 EA Up To 4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	281.42	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0514 SF >4 SF, Flat Surfaces, Lead Or Asbestos Paint Removal.....	70.36	
Note: Includes high efficiency particulate air (HEPA) vacuuming.		
34 05 43 00-0515 CF Treat and Dispose of Removed Paint Waste.....	6.42	
34 05 43 00-0516 SF Flat Surfaces Spot Painting.....	60.11	
Note: Includes 1 coat epoxy rust inhibiting primer and 2 coats epoxy paint finish.		
34 05 43 00-0517 EA Minimum Charge For Plastic Barrier Enclosure for Paint Removal.....	1,413.56	
Note: Up to an 8' x 8' area, 7' high. Includes 10 mil plastic on walls and floor. 2"x4" construction. Excludes scaffolding.		
34 05 43 00-0518 SF Plastic Barrier Enclosure For Paint Removal.....	4.42	
Note: For projects where the total charge exceeds the minimum charge for plastic barrier enclosures. Includes 10 mil plastic on floor and walls. 2" x 4" construction. Excludes scaffolding. Use area of walls and floor for quantity.		
34 05 43 00-0519 End Beam Cleaning And Painting For Bridges (34 05 43)		
34 05 43 00-0520 SF End Beam Cleaning and Painting.....	4.31	
Note: Includes high-pressure wash at minimum 3003 to 5000 PSI, spot cleaning damaged/rusted areas with hand and power tools (SSPC - SP2 and SP3), solvent cleaning (SSPC-SP1), one coat of aluminum epoxy mastic (minimum 6 mils) to spot cleaned areas, one coat sealer (1-2 mils), and one coat polyurethane finish.		
For Up To 100, Add	4.31	
For >100 To 500, Add	2.84	
For >500 To 3,000, Add	1.42	
For >5,000 To 7,500, Deduct	-0.70	
For >7,500 To 10,000, Deduct	-1.06	
For >10,000, Deduct	-1.51	
34 05 43 00-0521 Pedestrian Fences For Bridges (34 05 43)		

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST	UNIT COST	
34 05 43 00-0522	Pedestrian Fence Assembly For Bridges (34 05 43 00-0521) Note: Includes 1", 11 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, 1-5/8" top rail, 1-5/8" bottom rail, 2-7/8" post 10' on-center. Posts exclude installation onto bridge. Heights indicated are for mesh to top.			
34 05 43 00-0523	Galvanized Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)			
34 05 43 00-0524	LF 4' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	55.55		13.25
	For Posts 8' On Centers, Add	3.05		
	For Posts 5' On Centers, Add	11.45		
	For Up To 100, Add	10.56		
	For >100 To 250, Add	3.89		
34 05 43 00-0525	LF >4' To 5' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	60.62		13.91
	For Posts 8' On Centers, Add	3.31		
	For Posts 5' On Centers, Add	12.43		
	For Up To 100, Add	11.44		
	For >100 To 250, Add	4.20		
34 05 43 00-0526	LF >5' To 6' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	65.73		14.57
	For Posts 8' On Centers, Add	3.58		
	For Posts 5' On Centers, Add	13.43		
	For Up To 100, Add	12.31		
	For >100 To 250, Add	4.51		
34 05 43 00-0527	LF >6' To 7' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	69.08		15.24
	For Posts 8' On Centers, Add	3.76		
	For Posts 5' On Centers, Add	14.10		
	For Up To 100, Add	12.93		
	For >100 To 250, Add	4.74		
34 05 43 00-0528	LF >7' To 8' Galvanized Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	78.71		16.56
	For Posts 8' On Centers, Add	4.27		
	For Posts 5' On Centers, Add	15.98		
	For Up To 100, Add	14.59		
	For >100 To 250, Add	5.33		
34 05 43 00-0529	Vinyl Coated Pedestrian Fence Assembly For Bridges (34 05 43 00-0522)			
34 05 43 00-0530	LF 4' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	58.43		13.25
	For Powder Coated, Add	7.23		
	For Aluminum Coated, Add	14.45		
	For Posts 8' On Centers, Add	3.19		
	For Posts 5' On Centers, Add	11.97		
	For Up To 100, Add	10.99		
	For >100 To 250, Add	4.04		
34 05 43 00-0531	LF >4' To 5' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	64.24		13.91
	For Powder Coated, Add	8.16		
	For Aluminum Coated, Add	16.33		
	For Posts 8' On Centers, Add	3.49		
	For Posts 5' On Centers, Add	13.09		
	For Up To 100, Add	11.98		
	For >100 To 250, Add	4.38		
34 05 43 00-0532	LF >5' To 6' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	73.08		14.57
	For Powder Coated, Add	9.71		
	For Aluminum Coated, Add	19.42		
	For Posts 8' On Centers, Add	3.95		
	For Posts 5' On Centers, Add	14.75		
	For Up To 100, Add	13.42		
	For >100 To 250, Add	4.88		
34 05 43 00-0533	LF >6' To 7' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	77.63		15.24
	For Powder Coated, Add	10.40		
	For Aluminum Coated, Add	20.79		
	For Posts 8' On Centers, Add	4.19		
	For Posts 5' On Centers, Add	15.64		
	For Up To 100, Add	14.21		
	For >100 To 250, Add	5.16		
34 05 43 00-0534	LF >7' To 8' Vinyl (PVC) Coated Chain Link Fence, 11 Gauge Coiled Spring 1" Mesh, Top And Bottom Rails, 2-7/8" Post At 10' On-Center	88.67		16.56
	For Powder Coated, Add	12.16		
	For Aluminum Coated, Add	24.32		
	For Posts 8' On Centers, Add	4.77		
	For Posts 5' On Centers, Add	17.77		
	For Up To 100, Add	16.09		
	For >100 To 250, Add	5.83		
34 05 43 00-0535	Bridge Connection Mounting For Pedestrian Fence Assembly (34 05 43 00-0522)			
34 05 43 00-0536	EA Attach Bridge Fence Post To Steel Bridge Railing Post With U-Bolt, Washers And Nuts	63.08		
	Note: Includes drilling into steel post.			
34 05 43 00-0537	EA Attach Bridge Fence Post Base To Existing Plate, Welding And Touch-up With Galvanized Paint	34.93		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
34 05 43 00-0538	EA	Attach Bridge Fence Post Base With Plate, Welding And Touch-up With Galvanized Paint	95.32	
34 05 43 00-0539	EA	Attach Bridge Fence Post To Concrete Safety Shape Barrier With Bolt, 5/8" Diameter x 4-3/4" Anchor Rods, Washers And Nuts.....	105.31	
Note: Includes drilling into steel post.				
34 05 43 00-0540	EA	Attach Bridge Fence Post To Stone Faced Barrier Top With Plate, 3/8" Diameter Anchor Rods, Washers And Nuts	144.83	
Note: Includes drilling into steel post.				
34 05 43 00-0541		Bridge Drainage Pipe (34 05 43)		
Note: Concrete gray.				
34 05 43 00-0542		FRP Bridge Drain Pipe (34 05 43 00-0541)		
34 05 43 00-0543	LF	6" IPS FRP Bridge Drain Piping.....	168.71	19.42
34 05 43 00-0544	LF	8" IPS FRP Bridge Drain Piping.....	213.88	24.25
34 05 43 00-0545	LF	10" IPS FRP Bridge Drain Piping.....	275.17	29.07
34 05 43 00-0546	LF	12" IPS FRP Bridge Drain Piping.....	343.15	33.91
34 05 43 00-0547		FRP Bridge Drain Tee Saddles (34 05 43 00-0541)		
34 05 43 00-0548	EA	6" x 6" FRP Bridge Drain Tee Saddle	1,429.22	290.57
34 05 43 00-0549	EA	8" x 8" FRP Bridge Drain Tee Saddle	1,814.18	363.20
34 05 43 00-0550	EA	10" x 10" FRP Bridge Drain Tee Saddle	2,658.73	435.84
34 05 43 00-0551	EA	12" x 12" FRP Bridge Drain Tee Saddle	3,211.84	508.48
34 05 43 00-0552	EA	8" x 6" FRP Bridge Drain Tee Saddle	1,687.27	326.89
34 05 43 00-0553	EA	10" x 6" FRP Bridge Drain Tee Saddle	2,410.90	363.20
34 05 43 00-0554	EA	10" x 8" FRP Bridge Drain Tee Saddle	2,534.84	399.52
34 05 43 00-0555	EA	12" x 6" FRP Bridge Drain Tee Saddle	2,859.96	399.52
34 05 43 00-0556	EA	12" x 8" FRP Bridge Drain Tee Saddle	2,963.03	435.84
34 05 43 00-0557	EA	12" x 10" FRP Bridge Drain Tee Saddle	3,091.70	472.16
34 05 43 00-0558		FRP Bridge Drain 45 Degree Lateral Saddles (34 05 43 00-0541)		
34 05 43 00-0559	EA	6" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,526.78	290.57
34 05 43 00-0560	EA	8" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,927.36	363.20
34 05 43 00-0561	EA	10" x 10" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,872.68	435.84
34 05 43 00-0562	EA	12" x 12" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,632.60	508.48
34 05 43 00-0563	EA	8" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	1,801.08	326.89
34 05 43 00-0564	EA	10" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,631.08	363.20
34 05 43 00-0565	EA	10" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	2,751.83	399.52
34 05 43 00-0566	EA	12" x 6" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,279.33	399.52
34 05 43 00-0567	EA	12" x 8" FRP Bridge Drain 45 Degree Lateral Saddle.....	3,400.18	435.84
34 05 43 00-0568		FRP Bridge Drain Couplings (34 05 43 00-0541)		
34 05 43 00-0569	EA	6" FRP Bridge Drain Coupling	651.95	154.94
34 05 43 00-0570	EA	8" FRP Bridge Drain Coupling	842.23	193.67
34 05 43 00-0571	EA	10" FRP Bridge Drain Coupling	1,017.93	232.41
34 05 43 00-0572	EA	12" FRP Bridge Drain Coupling	1,440.72	271.26
34 05 43 00-0573		FRP Bridge Drain Flanges (34 05 43 00-0541)		
34 05 43 00-0574	EA	6" FRP Bridge Drain Flange	792.64	77.47
34 05 43 00-0575	EA	6", 8 Hole FRP Bridge Drain Flange	931.83	96.90
34 05 43 00-0576	EA	8" FRP Bridge Drain Flange	976.86	96.90
34 05 43 00-0577	EA	8", 8 Hole FRP Bridge Drain Flange	1,130.90	121.03
34 05 43 00-0578	EA	10" FRP Bridge Drain Flange	1,317.24	116.20
34 05 43 00-0579	EA	10", 12 Hole FRP Bridge Drain Flange	1,520.32	145.28
34 05 43 00-0580		FRP Bridge Drain Socket Cleanouts With Plug (34 05 43 00-0541)		
34 05 43 00-0581	EA	6" x 4" FRP Bridge Drain Socket Cleanout With 4" Plug.....	639.04	96.90
34 05 43 00-0582	EA	8" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	855.69	121.03
34 05 43 00-0583	EA	10" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	986.74	145.28
34 05 43 00-0584	EA	12" x 6" FRP Bridge Drain Socket Cleanout With 6" Plug.....	1,268.54	169.54
34 05 43 00-0585		FRP Bridge Drain Concentric Reducers (34 05 43 00-0541)		
34 05 43 00-0586	EA	8" x 6" FRP Bridge Drain Concentric Reducer.....	1,100.37	121.03
34 05 43 00-0587	EA	10" x 6" FRP Bridge Drain Concentric Reducer.....	1,057.54	138.04
34 05 43 00-0588	EA	10" x 8" FRP Bridge Drain Concentric Reducer.....	1,042.09	145.28
34 05 43 00-0589	EA	12" x 6" FRP Bridge Drain Concentric Reducer.....	1,254.01	152.52
34 05 43 00-0590	EA	12" x 8" FRP Bridge Drain Concentric Reducer.....	1,260.24	161.03
34 05 43 00-0591	EA	12" x 10" FRP Bridge Drain Concentric Reducer.....	1,335.95	169.54
34 05 43 00-0592	EA	14" x 8" FRP Bridge Drain Concentric Reducer.....	2,087.36	177.93
34 05 43 00-0593	EA	14" x 10" FRP Bridge Drain Concentric Reducer.....	2,114.69	186.89
34 05 43 00-0594	EA	14" x 12" FRP Bridge Drain Concentric Reducer.....	2,143.42	196.20
34 05 43 00-0595	EA	16" x 12" FRP Bridge Drain Concentric Reducer.....	2,539.32	206.08
34 05 43 00-0596	EA	18" x 12" FRP Bridge Drain Concentric Reducer.....	2,883.97	216.31

34 Transportation**34 05 Common Work Results for Transportation****34 05 43 Common Work Results for Bridges**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 05 43 00-0597 FRP Bridge Drain 90 Degree Socket Elbows (34 05 43 00-0541)			
34 05 43 00-0598	EA	6" FRP Bridge Drain 90 Degree Socket Elbow	1,449.90
34 05 43 00-0599	EA	8" FRP Bridge Drain 90 Degree Socket Elbow	1,702.92
34 05 43 00-0600	EA	10" FRP Bridge Drain 90 Degree Socket Elbow	2,666.16
34 05 43 00-0601	EA	12" FRP Bridge Drain 90 Degree Socket Elbow	3,639.35
			193.67
			242.17
			290.57
			338.96
34 05 43 00-0602 FRP Bridge Drain 45 Degree Socket Elbows (34 05 43 00-0541)			
34 05 43 00-0603	EA	6" FRP Bridge Drain 45 Degree Socket Elbow	1,112.79
34 05 43 00-0604	EA	8" FRP Bridge Drain 45 Degree Socket Elbow	1,465.11
34 05 43 00-0605	EA	10" FRP Bridge Drain 45 Degree Socket Elbow	1,988.11
34 05 43 00-0606	EA	12" FRP Bridge Drain 45 Degree Socket Elbow	2,597.00
			193.67
			242.17
			290.57
			338.96
34 05 43 00-0607 FRP Bridge Drain 22-1/2 Degree Socket Elbows (34 05 43 00-0541)			
34 05 43 00-0608	EA	6" FRP Bridge Drain 22-1/2 Degree Socket Elbow	1,958.86
34 05 43 00-0609	EA	8" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,253.06
34 05 43 00-0610	EA	10" FRP Bridge Drain 22-1/2 Degree Socket Elbow	2,606.88
34 05 43 00-0611	EA	12" FRP Bridge Drain 22-1/2 Degree Socket Elbow	3,039.72
			193.67
			242.17
			290.57
			338.96
34 05 43 00-0612 FRP Bridge Drain Debris Covers (34 05 43 00-0541)			
34 05 43 00-0613	EA	8" x 6" FRP Bridge Drain Debris Cover	872.34
34 05 43 00-0614	EA	10" x 6" FRP Bridge Drain Debris Cover	897.28
34 05 43 00-0615	EA	10" x 8" FRP Bridge Drain Debris Cover	930.66
34 05 43 00-0616	EA	12" x 10" FRP Bridge Drain Debris Cover	976.58
34 05 43 00-0617	EA	12" x 6" FRP Bridge Drain Debris Cover	913.57
34 05 43 00-0618	EA	12" x 8" FRP Bridge Drain Debris Cover	957.76
34 05 43 00-0619	EA	14" x 10" FRP Bridge Drain Debris Cover	1,026.92
34 05 43 00-0620	EA	14" x 12" FRP Bridge Drain Debris Cover	1,047.68
34 05 43 00-0621	EA	16" x 12" FRP Bridge Drain Debris Cover	1,118.74
			100.92
			105.97
			116.77
			128.73
			111.26
			122.64
			135.17
			141.95
			149.07

34 10 Guideways/Railways (34)**34 11 Rail Tracks** (34 10)**34 11 93 Track Appurtenances and Accessories** (34 11)

34 11 93 00-0001 Railroad Crossings (34 11 93)			
34 11 93 00-0002 Asphalt Railroad Crossings (34 11 93 00-0001)			
Note: Based on 8" thickness x 20' including track and approach.			
34 11 93 00-0003	EA	8" Asphalt Railroad Crossing, 12' Roadway 6 CY	2,280.80
34 11 93 00-0004	EA	8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY	2,674.74
34 11 93 00-0005	EA	8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY	3,154.01
34 11 93 00-0006	EA	8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY	3,749.67
34 11 93 00-0007	EA	8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY	4,549.00
			381.92
			432.84
			509.22
			611.07
			763.84
34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts (34 11 93 00-0001)			
Note: Based on 6" thickness x standard rail width gauge.			
34 11 93 00-0009	EA	Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge	5,900.54
34 11 93 00-0010	EA	Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge	7,375.68
34 11 93 00-0011	EA	Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge	8,844.75
34 11 93 00-0012	EA	Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge	10,315.39
34 11 93 00-0013	EA	Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge	11,785.04
			170.94
			207.57
			256.41
			293.04
			341.88
34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers (34 11 93 00-0001)			
Note: Based on 3' x 8'-6" sections.			
34 11 93 00-0015	EA	Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers	3,377.24
34 11 93 00-0016	EA	Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers	4,013.32
34 11 93 00-0017	EA	Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers	4,643.34
34 11 93 00-0018	EA	Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers	5,274.92
34 11 93 00-0019	EA	Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers	5,905.51
			170.94
			207.57
			256.41
			293.04
			341.88
34 11 93 00-0020 Railroad Trackage Demolition (34 11 93)			
34 11 93 00-0021	CY	Removal Of Railroad Track Ballast	10.04
34 11 93 00-0022	LF	Removal Of Railroad Track Rail And Spikes	25.09
34 11 93 00-0023	EA	Removal And Disposal Of Concrete Post Footings	147.13
34 11 93 00-0024	EA	Backfill Holes From Post Removal	61.32

34 40 Transportation Signaling and Control Equipment (34)**34 41 Roadway Signaling and Control Equipment** (34 40)**34 41 13 Traffic Signals** (34 41)



Transportation		34
Transportation Signaling and Control Equipment		34 40
Roadway Signaling and Control Equipment		34 41

34

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
34 41 13 00-0001	Traffic Signals ^(34 41 13)			
34 41 13 00-0002	EA Single Traffic Signal Head, 4 Way Pattern.....	8,258.41		864.39
34 41 13 00-0003	Traffic Detector Induction Loop ^(34 41 13)			
34 41 13 00-0004	EA 6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop.....	435.50		
	Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0005	EA 6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop.....	543.37		
	Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0006	EA 6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop.....	614.75		
	Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0007	EA 6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop.....	531.90		
	Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0008	EA 6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	923.04		
	Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0009	EA 6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,133.64		
	Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0010	EA 6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop.....	1,207.17		
	Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0011	EA 6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,505.24		
	Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0012	EA 6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,613.69		
	Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0013	EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop.....	1,725.48		
	Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0014	EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop.....	1,857.97		
	Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street.			
	Excludes lead wire, controller, junction box or conduit.			
34 41 13 00-0015	LF In Pavement, Lead Wire For Traffic Signal Detector.....	8.65		
	Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.			
34 41 13 00-0016	LF In Earthwork, Lead Wire For Traffic Signal Detector.....	3.93		
	Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.			
34 41 13 00-0017	EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	288.95		
34 41 13 00-0018	EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	820.29		
34 41 13 00-0019	EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	508.53		
34 41 13 00-0020	Overhead Traffic Signals ^(34 41 13)			
34 41 13 00-0021	EA Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	6,658.95		1,152.52
34 41 13 00-0022	EA Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	6,858.50		1,152.52
34 41 13 00-0023	EA Traffic Signal Controller Unit, Replacement For Type 170E (ASC/3RM).....	7,128.49		1,152.52
34 41 13 00-0024	EA Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	1,246.29		259.58
34 41 13 00-0025	EA Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	1,363.68		259.58
34 41 13 00-0026	EA Optical Detector For Mast Arm Mounting, 2 Channel.....	1,748.70		259.58
34 41 13 00-0027	EA Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	1,246.29		259.58
34 41 13 00-0028	EA Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	1,363.68		259.58
34 41 13 00-0029	EA Optical Detector For Pole-Side Mounting, 2 Channel.....	1,748.70		259.58
34 41 13 00-0030	EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	1,246.29		259.58
34 41 13 00-0031	EA Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	1,363.68		259.58
34 41 13 00-0032	EA Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,748.70		259.58
34 41 13 00-0033	EA Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	1,246.29		259.58
34 41 13 00-0034	EA Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	1,363.68		259.58
34 41 13 00-0035	EA Optical Detector For Span Wire Mounting, 2 Channel.....	1,748.70		259.58
34 41 13 00-0036	EA Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	1,246.29		259.58
34 41 13 00-0037	EA Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	1,363.68		259.58
34 41 13 00-0038	EA Optical Detector For Signal Top Mounting, 2 Channel.....	1,748.70		259.58
34 41 13 00-0039	EA Phase Selector, 2 Channel.....	3,997.29		32.45
34 41 13 00-0040	EA Phase Selector, 4 Channel.....	6,215.86		32.45
34 41 13 00-0041	EA Malfunction Management Unit For Use With NEMA Controller.....	2,007.95		64.89
34 41 13 00-0042	EA Malfunction Management Unit For Use With Type 170E Or 2070 Controller.....	2,007.95		64.89
34 41 13 00-0043	EA Time Switch, 1-Circuit.....	256.39		38.94
34 41 13 00-0044	EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	403.39		16.22
34 41 13 00-0045	EA Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	527.81		16.22
34 41 13 00-0046	EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	750.85		16.22
34 41 13 00-0047	EA Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	943.36		16.22
34 41 13 00-0048	EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Controller Cabinet.....	2,563.27		16.22
34 41 13 00-0049	EA Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	2,563.27		16.22
34 41 13 00-0050	EA Power Line Surge Protector.....	236.37		9.73
34 41 13 00-0051	EA Loop Detector Surge Protector.....	120.07		9.73
34 41 13 00-0052	EA Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	15,300.09		1,620.73
34 41 13 00-0053	EA Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	16,638.27		1,620.73

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0054 EA Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay	18,246.45	1,620.73
34 41 13 00-0055 EA Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays	18,739.47	1,620.73
34 41 13 00-0056 EA Speed Limit Beacon Control Option	6,733.64	432.19
34 41 13 00-0057 EA Speed Limit Beacon Control Cabinet	7,598.03	864.39
34 41 13 00-0058 EA Remote Detector Cabinet	3,959.10	864.39
34 41 13 00-0059 EA Traffic Signal Hand Control	1,109.83	144.07
34 41 13 00-0060 EA Load Switch	111.03	9.73
34 41 13 00-0061 EA Extra Pedestrian Detector Isolation Assembly	875.05	144.07
34 41 13 00-0062 EA Fiber Optic Transceivers-Repeater Module	1,176.73	259.58
34 41 13 00-0063 EA Field Transceiver-Repeater	558.93	64.89
34 41 13 00-0064 EA 30" Pedestal With Base Plate And Cover	970.44	130.46
34 41 13 00-0065 EA 42" Pedestal With Base Plate And Cover (Push Button Pedestal)	1,137.24	136.40
34 41 13 00-0066 EA 8' Pedestal With Base Plate And Cover	1,426.22	152.99
34 41 13 00-0067 EA 11' Pedestal With Base Plate And Cover	1,587.26	166.04
34 41 13 00-0068 EA 15' Pedestal With Base Plate And Cover	1,763.81	198.06
34 41 13 00-0069 LF 6-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.79	
34 41 13 00-0070 LF 12-Fiber Interconnect Cable, Fiber Optic, Single Mode	1.92	
34 41 13 00-0071 LF 24-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.30	
34 41 13 00-0072 LF 36-Fiber Interconnect Cable, Fiber Optic, Single Mode	2.69	
34 41 13 00-0073 LF 48-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.08	
34 41 13 00-0074 LF 72-Fiber Interconnect Cable, Fiber Optic, Single Mode	3.79	
34 41 13 00-0075 LF 96-Fiber Interconnect Cable, Fiber Optic, Single Mode	4.46	
34 41 13 00-0076 LF 144-Fiber Interconnect Cable, Fiber Optic, Single Mode	5.78	
34 41 13 00-0077 LF 3/16" Diameter Messenger Cable	0.70	0.11
34 41 13 00-0078 LF 1/4" Diameter Messenger Cable	0.84	0.11
34 41 13 00-0079 LF 3/8" Diameter Messenger Cable	1.57	0.11
34 41 13 00-0080 LF 1/2" Diameter Messenger Cable	3.25	0.23
34 41 13 00-0081 EA 4' Diameter x 10' Concrete Base For Poles	3,186.13	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0082 EA 4' Diameter x 16' Concrete Base For Poles	5,042.45	
Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0083 EA Internally Illuminated Street Name Sign, 1 Line, 4'	3,017.87	288.13
34 41 13 00-0084 EA Internally Illuminated Street Name Sign, 1 Line, 6'	3,725.39	360.16
34 41 13 00-0085 EA Internally Illuminated Street Name Sign, 1 Line, 8'	4,057.26	432.19
34 41 13 00-0086 EA Internally Illuminated Street Name Sign, 1 Line, 10'	4,576.95	504.23
34 41 13 00-0087 EA Internally Illuminated Street Name Sign, 1 Line, 12'	4,908.84	576.26
34 41 13 00-0088 EA Internally Illuminated Street Name Sign, 2 Line, 4'	4,792.73	288.13
34 41 13 00-0089 EA Internally Illuminated Street Name Sign, 2 Line, 6'	5,904.05	360.16
34 41 13 00-0090 EA Internally Illuminated Street Name Sign, 2 Line, 8'	6,367.40	432.19
34 41 13 00-0091 EA Internally Illuminated Street Name Sign, 2 Line, 10'	7,112.47	504.23
34 41 13 00-0092 EA Internally Illuminated Street Name Sign, 2 Line, 12'	7,632.17	576.26
34 41 13 00-0093 EA Photoelectric Controller, Multi-Volt	102.71	33.74
34 41 13 00-0094 EA Photoelectric Controller, 120 Volt	106.22	33.74
34 41 13 00-0095 EA Photoelectric Controller, 480 Volt	106.22	33.74
34 41 13 00-0096 EA Wi-Fi Communication Unit	1,577.02	144.07
34 41 13 00-0097 EA Wi-Fi Communication Unit Mounting Bracket	333.48	108.05
34 41 13 00-0098 EA Wi-Fi Communication Unit Power Supply / POE Injector	306.06	72.03
34 41 13 00-0099 EA Wi-Fi Communication Unit Packet	2,216.55	216.10
34 41 13 00-0100 LF Preemptor Detector Cable	1.81	
34 41 13 00-0101 EA Sno-Shoe Cable Storage Assembly	284.36	
34 41 13 00-0102 EA 16' Pedestal With Base Plate And Cover	1,861.63	198.06
34 41 13 00-0103 EA Vehicle Signal Face, LED, 1 - 12" Section	604.49	183.68
34 41 13 00-0104 EA Vehicle Signal Face, LED, 2 - 12" Sections	985.82	259.32
34 41 13 00-0105 EA Vehicle Signal Face, LED, 3 - 12" Sections	1,385.14	316.94
34 41 13 00-0106 EA Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank	1,314.71	316.94
34 41 13 00-0107 EA Vehicle Signal Face, LED, 4 - 12" Sections	1,762.38	352.96
34 41 13 00-0108 EA Vehicle Signal Face, LED, 5 - 12" Sections	2,110.80	374.57
34 41 13 00-0109 EA Vehicle Signal Face, LED, 5 - 12" Sections, Cluster	2,246.96	374.57
34 41 13 00-0110 EA Vehicle Signal Face, LED, 1 - 8" Section	569.27	183.68
34 41 13 00-0111 EA Vehicle Signal Face, LED, 2 - 8" Sections	915.39	259.32
34 41 13 00-0112 EA Vehicle Signal Face, LED, 3 - 8" Sections	1,213.76	316.94
34 41 13 00-0113 EA Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section	1,300.63	316.94
34 41 13 00-0114 EA Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections	1,612.13	352.96
34 41 13 00-0115 EA Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section	1,562.83	352.96
34 41 13 00-0116 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections	1,852.55	374.57
34 41 13 00-0117 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster	1,962.89	374.57
34 41 13 00-0118 EA Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed	2,840.72	316.94
34 41 13 00-0119 EA Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed	3,718.02	352.96
34 41 13 00-0120 EA Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed	4,857.61	374.57
34 41 13 00-0121 EA Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed	5,268.45	374.57
34 41 13 00-0122 EA Bracket Signal Mounting Assembly	583.94	144.07
34 41 13 00-0123 EA Mast Arm Signal Mounting Assembly	1,031.71	288.13
34 41 13 00-0124 EA Top Pole Signal Mounting Assembly	361.66	108.05
34 41 13 00-0125 EA Pedestrian Signal Head	1,066.07	216.10
34 41 13 00-0126 EA Pedestrian Signal Insert	659.82	108.05
34 41 13 00-0127 EA Audible Pedestrian Signal	1,490.09	
34 41 13 00-0128 EA Junction Box, Pole Or Post Mounted	617.34	
34 41 13 00-0129 EA Pedestrian Push Button	552.41	
34 41 13 00-0130 EA Illuminated Sign, Bracket Mounted, Symbolic	4,483.00	
34 41 13 00-0131 EA Illuminated Sign, Mast Arm Mounted, Symbolic	4,675.59	
34 41 13 00-0132 EA Sign, Message, "BLANK OUT", Bracket Mounted	4,940.78	



Transportation		34
Transportation Signaling and Control Equipment		34 40
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0133 EA Sign, Message, "BLANK OUT", Mast Arm Mounted	5,250.74	
34 41 13 00-0134 EA Sign, Fiber Optic, Bracket Mounted	5,635.29	
34 41 13 00-0135 EA Sign, Fiber Optic, Mast Arm Mounted	5,951.71	
34 41 13 00-0136 EA 30' Type 15TS Signal And Lighting Standard	8,458.08	
Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0137 EA 35' Type 21TS Signal And Lighting Standard	9,854.63	
Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0138 EA 17' Type 18-2-100 Signal And Lighting Standard	4,718.80	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0139 EA 17' Type 18-3-100 Signal And Lighting Standard	5,258.00	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0140 EA 17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard	5,464.70	
Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0141 EA 17' Type 23-3-100 Signal And Lighting Standard	5,464.70	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0142 EA 17' Type 23-4-100 Signal And Lighting Standard	5,573.22	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0143 EA 17' Type 27-3-100 Signal And Lighting Standard	6,115.81	
Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0144 EA 17' Type 27-4-100 Signal And Lighting Standard	6,240.58	
Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0145 EA 17' Type 28-5-100 Signal And Lighting Standard	6,496.42	
Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0146 EA 17' Type 60-5-100 Signal And Lighting Standard	6,899.34	
Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0147 EA 18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard	5,036.00	
Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0148 EA 30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard	9,024.25	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0149 EA 30' Type 19-2-100 Signal And Lighting Standard	10,156.58	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0150 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard	10,590.64	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0151 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard	10,590.64	
Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0152 EA 30' Type 26-3-100 Signal And Lighting Standard	11,957.92	
Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0153 EA 30' Type 26-4-100 Signal And Lighting Standard	12,482.06	
Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0154 EA 30' Type 29-5-100 Signal And Lighting Standard	13,032.38	
Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0155 EA 30' Type 61-5-100 Signal And Lighting Standard	13,899.17	
Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0156 EA 35' Type 17A-2-100 Signal And Lighting Standard	10,493.17	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0157 EA 35' Type 19A-2-100 Signal And Lighting Standard	11,814.22	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0158 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard	12,320.64	
Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0159 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard	12,320.64	
Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0160 EA 35' Type 26A-3-100 Signal And Lighting Standard	13,915.79	
Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0161 EA 35' Type 26A-4-100 Signal And Lighting Standard	14,527.28	
Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0162 EA 35' Type 29A-5-100 Signal And Lighting Standard	15,169.33	
Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0163 EA 35' Type 61A-5-100 Signal And Lighting Standard	16,180.56	
Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0164 EA 15' Steel Straight Mast Arm, MONOTUBE	3,391.94	
34 41 13 00-0165 EA 20' Steel Straight Mast Arm, MONOTUBE	3,560.19	
34 41 13 00-0166 EA 25' Steel Straight Mast Arm, MONOTUBE	3,817.12	
34 41 13 00-0167 EA 30' Steel Straight Mast Arm, MONOTUBE	5,191.16	
34 41 13 00-0168 EA 35' Steel Straight Mast Arm, MONOTUBE	6,267.32	
34 41 13 00-0169 EA 40' Steel Straight Mast Arm, MONOTUBE	6,733.55	
34 41 13 00-0170 EA 45' Steel Straight Mast Arm, MONOTUBE	7,397.17	
34 41 13 00-0171 EA 50' Steel Straight Mast Arm, MONOTUBE	8,397.99	
34 41 13 00-0172 EA 55' Steel Straight Mast Arm, MONOTUBE	9,548.69	
34 41 13 00-0173 EA 60' Steel Straight Mast Arm, MONOTUBE	10,286.65	
34 41 13 00-0174 EA 65' Steel Straight Mast Arm, MONOTUBE	11,941.05	
34 41 13 00-0175 EA 4' Steel Curved Luminaire Mast Arm	1,154.83	
For High Rise Arm, Add	100.83	
For High Rise Straight Arm, Add	80.67	
34 41 13 00-0176 EA 6' Steel Curved Luminaire Mast Arm	1,503.76	
For High Rise Arm, Add	134.80	
For High Rise Straight Arm, Add	107.64	
34 41 13 00-0177 EA 8' Steel Curved Luminaire Mast Arm	1,881.48	
For High Rise Arm, Add	168.77	
For High Rise Straight Arm, Add	135.02	
34 41 13 00-0178 EA 10' Steel Curved Luminaire Mast Arm	2,557.97	
For High Rise Arm, Add	198.43	
For High Rise Straight Arm, Add	158.74	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0179 EA 12' Steel Curved Luminaire Mast Arm <i>For High Rise Arm, Add</i> <i>For High Rise Straight Arm, Add</i>	2,835.08 234.02 187.21	
34 41 13 00-0180 EA 15' Steel Curved Luminaire Mast Arm <i>For High Rise Arm, Add</i> <i>For High Rise Straight Arm, Add</i>	2,974.95 260.97 208.78	
34 41 13 00-0181 EA 20' Steel Curved Luminaire Mast Arm <i>For High Rise Arm, Add</i>	3,391.24 311.66	
34 41 13 00-0182 EA 15' Tubular Aluminum Post.....	1,215.60	
34 41 13 00-0183 EA 17' Tubular Aluminum Post.....	1,292.36	
34 41 13 00-0184 EA 20' Tubular Aluminum Post.....	1,434.62	
34 41 13 00-0185 EA CUT-OFF POLE AND CAPPED	204.41	
34 41 13 00-0186 EA PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	61.53	
34 41 13 00-0187 EA PAINT EXISTING TS POST COMPLETE.....	289.68	
34 41 13 00-0188 EA 1 Channel Loop Detector Amplifier	1,912.32	
34 41 13 00-0189 EA 4 Channel Loop Detector Amplifier	3,628.90	
34 41 13 00-0190 EA FLASHING BEACON WITH DOWNLIGHT.....	2,634.61	
34 41 13 00-0191 EA Flashing Beacon, Bracket Mounted.....	868.33	
34 41 13 00-0192 EA Flashing Beacon, Mast Arm Mounted.....	868.33	
34 41 13 00-0193 EA Flashing Beacon, Solar Powered, Bracket Mounted.....	23,835.91	
34 41 13 00-0194 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	4,282.77	
34 41 13 00-0195 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	2,301.13	
34 41 13 00-0196 EA Smart Sensor HD (Wavetronix HD125)	12,236.76	
34 41 13 00-0197 EA Access Point (Sensys AP240-ES)	5,659.95	
Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0198 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with integrated 1xRTT cellular data modem for data relay via CDMA.....	9,790.32	
34 41 13 00-0199 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	348.30	
34 41 13 00-0200 EA Repeater (Sensys RP240-B-LL)	2,593.18	
Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0201 EA Wireless Flush Mounted Sensor (Sensys VSN240-F)	1,161.93	
Note: Excludes coring.		
34 41 13 00-0202 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	2,904.78	
34 41 13 00-0203 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	7,662.82	1.90
34 41 13 00-0204 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles	10,024.23	1.90
34 41 13 00-0205 EA Pole Base Foundation for Type 15 and 21 Poles.....	5,983.17	1.90
34 41 13 00-0206 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles	7,662.82	1.90
34 41 13 00-0207 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles	10,024.23	1.90
34 41 13 00-0208 EA Service Equipment Enclosure, Type III-AF	1,508.08	
34 41 13 00-0209 EA 12", 3 Section Signal, Mast Arm Mounted	1,763.75	
34 41 13 00-0210 EA 8", 3 Section Signal, Mast Arm Mounted	1,573.13	
34 41 13 00-0211 EA 12" FCV Visor	107.47	
34 41 13 00-0212 EA 8" FCV Visor	76.17	
34 41 13 00-0213 EA Eggcrate Visor	103.60	
34 41 13 00-0214 EA Pedestrian H/M	1,168.22	
34 41 13 00-0215 EA Pedestrian Audio	1,283.56	
34 41 13 00-0216 EA Adjustable Pushbutton	316.30	
34 41 13 00-0217 EA ADA Cap And Switch	402.47	
34 41 13 00-0218 EA 3 Section 12" Backplate.....	173.99	
34 41 13 00-0219 EA 3 Section 12" MAS Mount Backplate	256.33	
34 41 13 00-0220 EA 3 Section 8" Backplate.....	140.16	
34 41 13 00-0221 EA 12" Red LED Lenses	295.70	
34 41 13 00-0222 EA 12" Amber LED Lenses	317.24	
34 41 13 00-0223 EA 12" Green LED Lenses	553.59	
34 41 13 00-0224 EA 12" Red Arrow.....	293.96	
34 41 13 00-0225 EA 12" Amber Arrow.....	278.19	
34 41 13 00-0226 EA 12" Green Arrow	416.43	
34 41 13 00-0227 EA 8" Red	290.77	
34 41 13 00-0228 EA 8" Amber	279.12	
34 41 13 00-0229 EA 8" Green	336.62	
34 41 13 00-0230 EA Hand/Man	508.39	
34 41 13 00-0231 EA Frameworks, 8" TV-1-T.....	619.71	
34 41 13 00-0232 EA Frameworks, 8" TV-2-T.....	703.41	
34 41 13 00-0233 EA Frameworks, MAT MT	184.84	
34 41 13 00-0234 EA Frameworks, MAS MT	201.58	
34 41 13 00-0235 EA Frameworks, 3W PT TC	427.51	
34 41 13 00-0236 EA Frameworks, 2W PT TC	404.39	
34 41 13 00-0237 EA Frameworks, 2W SM TC.....	382.07	
34 41 13 00-0238 EA Frameworks, SV-1	253.54	
34 41 13 00-0239 EA Frameworks, TV-1	245.17	
34 41 13 00-0240 EA Type III Service Pedestal	4,870.60	
34 41 13 00-0241 EA Single Fuse Holder	46.44	
34 41 13 00-0242 EA Double Fuse Holder.....	116.71	
34 41 13 00-0243 EA Pullbox, 1-1/2" x 20" x 14".....	106.57	
34 41 13 00-0244 EA Pullbox, 5" x 28" x 18".....	144.47	
34 41 13 00-0245 EA Pullbox, 6" x 36" x 23".....	188.14	
34 41 13 00-0246 EA Pullbox Lids, FL9D.....	115.94	
34 41 13 00-0247 EA Pullbox Lids, FL30D.....	216.41	
34 41 13 00-0248 EA Pullbox Lids, FL36D.....	61.51	



		Transportation	34
		Transportation Signaling and Control Equipment	34 40
		Roadway Signaling and Control Equipment	34 41

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MINOR	CS1	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0249	EA		LED Enhanced Pedestrian Crossing Symbol Sign Note: 2 required per system.	2,049.79	118.60
34 41 13 00-0250	EA		42" Height, 8-1/2" Diameter Automatic Bollard Activation System Note: 4 required per system.	5,905.52	711.61
34 41 13 00-0251	EA		Power Control Unit With Enclosure (Solar) Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).	20,817.88	474.41
34 41 13 00-0252	EA		Power Control Unit With Enclosure (A/C)	13,347.60	474.41
34 41 13 00-0253	EA		Push Button Assembly With Sign	1,171.84	237.20
34 41 13 00-0254	EA		Advanced Warning Signs	2,318.73	237.20
34 41 13 00-0255	EA		14' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	4,179.60	
34 41 13 00-0256	EA		21' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm.	6,408.31	
34 41 13 00-0257	EA		22' High Galvanized Steel Traffic Signal Pole..... Note: For mast arm and luminare arm.	6,659.94	
34 41 13 00-0258	EA		30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm..... Note: For mast arm and luminare arm.	9,018.75	
34 41 13 00-0259	EA		32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	9,571.64	
34 41 13 00-0260	EA		30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	7,451.56	
34 41 13 00-0261	EA		30' High Galvanized Steel Traffic Signal Pole, Octafute	6,632.22	
34 41 13 00-0262	EA		30' (High Spun Aluminum Traffic Signal Pole, Tapered.....	5,392.95	
34 41 13 00-0263	EA		Type 26-6-70 Signal Pole With 55' SMA And 20' LMA	26,344.16	
34 41 13 00-0264	EA		Type 29-6-70 Signal Pole With 65' SMA And 20' LMA	30,402.65	
34 41 13 00-0265			Traffic Signal Cable (34 41 13)		
34 41 13 00-0266	LF		16 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.43	1.01
34 41 13 00-0267	LF		16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.78	1.08
34 41 13 00-0268	LF		16 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.09	1.15
34 41 13 00-0269	LF		16 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.40	1.21
34 41 13 00-0270	LF		16 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.77	1.29
34 41 13 00-0271	LF		16 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.43	1.43
34 41 13 00-0272	LF		16 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.24	1.65
34 41 13 00-0273	LF		16 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.03	1.87
34 41 13 00-0274	LF		16 AWG, 16-Conductor, Solid, Traffic Signal Cable	7.24	2.07
34 41 13 00-0275	LF		16 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.69	2.29
34 41 13 00-0276	LF		14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.54	1.01
34 41 13 00-0277	LF		14 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.93	1.08
34 41 13 00-0278	LF		14 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.29	1.15
34 41 13 00-0279	LF		14 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.64	1.21
34 41 13 00-0280	LF		14 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.07	1.29
34 41 13 00-0281	LF		14 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.82	1.43
34 41 13 00-0282	LF		14 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.72	1.65
34 41 13 00-0283	LF		14 AWG, 12-Conductor, Solid, Traffic Signal Cable	6.61	1.87
34 41 13 00-0284	LF		14 AWG, 16-Conductor, Solid, Traffic Signal Cable	8.01	2.07
34 41 13 00-0285	LF		14 AWG, 20-Conductor, Solid, Traffic Signal Cable	9.71	2.29
34 41 13 00-0286	LF		12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.80	1.01
34 41 13 00-0287	LF		12 AWG, 3-Conductor, Solid, Traffic Signal Cable	3.31	1.08
34 41 13 00-0288	LF		12 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.77	1.15
34 41 13 00-0289	LF		12 AWG, 5-Conductor, Solid, Traffic Signal Cable	4.21	1.21
34 41 13 00-0290	LF		12 AWG, 6-Conductor, Solid, Traffic Signal Cable	4.79	1.29
34 41 13 00-0291	LF		12 AWG, 8-Conductor, Solid, Traffic Signal Cable	5.76	1.43
34 41 13 00-0292	LF		12 AWG, 10-Conductor, Solid, Traffic Signal Cable	6.88	1.65
34 41 13 00-0293	LF		12 AWG, 12-Conductor, Solid, Traffic Signal Cable	7.99	1.87
34 41 13 00-0294	LF		12 AWG, 16-Conductor, Solid, Traffic Signal Cable	9.86	2.07
34 41 13 00-0295	LF		12 AWG, 20-Conductor, Solid, Traffic Signal Cable	12.18	2.29
34 41 13 00-0296			School Zone Flasher Beacons (34 41 13)		
34 41 13 00-0297	EA		One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	6,236.21	217.07
34 41 13 00-0298	EA		One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	6,280.81	217.07
34 41 13 00-0299	EA		Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	7,038.02	217.07
34 41 13 00-0300	EA		Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	7,180.75	217.07
34 41 13 00-0301	EA		10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.	13,208.53	217.07
34 41 13 00-0302	EA		10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly ... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	13,767.86	217.07

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

34 41 13 00-0303 Traffic Light Control Synchronization (34 41 13)

34 41 13 00-0304	EA	ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	5,417.87	
34 41 13 00-0305	EA	ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	4,039.02	
34 41 13 00-0306	EA	ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24).....	9,236.03	
34 41 13 00-0307	EA	5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	6,318.70	
34 41 13 00-0308	EA	2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	6,318.70	
34 41 13 00-0309	EA	Solar Cabinet Assembly.....	17,015.34	
34 41 13 00-0310	EA	Data Controller Interface Cable Assembly	670.69	
34 41 13 00-0311	EA	900 MHz Splitter.....	798.64	
34 41 13 00-0312	EA	900 MHz Surge Suppressor.....	288.21	
34 41 13 00-0313	EA	Surge-Radio Lead in Cable.....	181.37	
34 41 13 00-0314	EA	12DB GAIN YAGI Antenna	811.44	
34 41 13 00-0315	EA	PELCO Antenna Mounting Bracket	539.33	
34 41 13 00-0316	MLF	Coaxial Cable, LMR-400.....	4,393.10	
34 41 13 00-0317	EA	Perle 16 Port Serial Server	4,546.84	
34 41 13 00-0318	EA	Serial to Ethernet Card	2,432.16	
34 41 13 00-0319	EA	404 Stand-Alone Modem (GDI 404)	2,218.91	

34 41 13 00-0320 Traffic Signal Controls (34 41 13)

34 41 13 00-0321	EA	Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,916.75	
34 41 13 00-0322	EA	Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	802.91	
34 41 13 00-0323	EA	AccessBox for contract closure master card (CC-ACC).....	282.86	
34 41 13 00-0324	EA	Flush Mount Wireless Sensor (ATT VSN240-F)	1,088.98	
34 41 13 00-0325	EA	Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	1,088.98	
34 41 13 00-0326	EA	Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	167.78	
34 41 13 00-0327	EA	SNAPS License for each enabled AP (SNAPS-PER-AP).....	462.11	

34 41 13 00-0328 Traffic Signal Devices (34 41 13)

34 41 13 00-0329	EA	12" Polycarbonate Signal Head Housing (McCain).....	1,017.04	106.74
34 41 13 00-0330	EA	16" Polycarbonate Pedestrian Signal Housing (McCain)	517.60	83.03
34 41 13 00-0331	EA	Pedestrian Push Button Cap & Switch (McCain M31334)	388.73	154.18
34 41 13 00-0332	EA	Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712)	531.04	225.34
34 41 13 00-0333	EA	Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793)	408.04	177.90
34 41 13 00-0334	EA	16 Channel Conflict Monitor (McCain 2010 ECLIP)	1,530.28	77.09
34 41 13 00-0335	EA	LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	314.43	29.65
34 41 13 00-0336	EA	Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	3,465.12	130.46
34 41 13 00-0337	EA	Camera processor card (Iteris Edge Connect).....	7,912.90	189.77
34 41 13 00-0338	EA	Wireless Broadband Radio (Encom BB58).....	7,472.34	177.90
34 41 13 00-0339	EA	24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900)	4,935.24	142.33
34 41 13 00-0340	EA	Power Adapter (Mean Well DR-120-48)	172.54	44.48
34 41 13 00-0341	LF	14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	1.01	
34 41 13 00-0342	EA	Radar Detection System (Wavetronix Matrix)	14,312.98	450.68
34 41 13 00-0343	EA	Pedestrian Audio Push Button (Polaris APS)	425.79	112.67
34 41 13 00-0344	EA	Opticom Infrared System - Detector (GTT 711)	1,107.55	105.80
34 41 13 00-0345	EA	Opticom Infrared System - Detector (GTT 721)	1,239.17	118.36
34 41 13 00-0346	EA	Opticom Infrared System - Detector (GTT 722)	1,725.90	164.86
34 41 13 00-0347	EA	Opticom Multimode Phase Selector (GTT 764)	5,721.61	97.56
34 41 13 00-0348	LF	Opticom GPS Installation Cable (GTT 1070).....	1.21	
34 41 13 00-0349	EA	Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324)	954.40	
34 41 13 00-0350	EA	Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730)	1,012.30	
34 41 13 00-0351	EA	UPS Module (Alpha Technologies FXM 350)	1,551.97	64.89
34 41 13 00-0352	EA	Note: For battery backup in traffic signal control cabinet Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual).....	488.33	53.37
34 41 13 00-0353	LF	Note: To control flashing "School" signs Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR)	10.95	0.54
34 41 13 00-0354	LF	Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber)	2.65	0.47
34 41 13 00-0355	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	145.20	53.37
34 41 13 00-0356	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	145.20	53.37
34 41 13 00-0357	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA)	145.20	53.37
34 41 13 00-0358	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	145.20	53.37
34 41 13 00-0359	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	145.20	53.37
34 41 13 00-0360	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA)	145.20	53.37
34 41 13 00-0361	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	428.60	136.40
34 41 13 00-0362	EA	EOC Switch (Actellis ML688)	5,675.21	421.82
34 41 13 00-0363	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro)	1,528.93	97.34
34 41 13 00-0364	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T)	121.82	25.21
34 41 13 00-0365	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	438.34	36.49
34 41 13 00-0366	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T)	151.78	25.21
34 41 13 00-0367	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	531.06	36.49
34 41 13 00-0368	EA	Battery Back-up (Alpha FXM110 UPS).....	3,676.94	129.79
34 41 13 00-0369	EA	Battery (Alpha AlphaCell 220GXL)	520.53	32.45
34 41 13 00-0370	EA	BBS Cabinet (Alpha SE48-1616).....	4,229.23	292.02
34 41 13 00-0371	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	6.44	2.53
34 41 13 00-0372	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	2.84	1.16
34 41 13 00-0373	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,313.92	97.34



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0374	EA		12" THREE SECTION HOUSING (McCain M22435)	904.39	64.89
34 41 13 00-0375	EA		12" FOUR SECTION HOUSING (McCain M30883)	1,162.93	97.34
34 41 13 00-0376	EA		12" FIVE SECTION HOUSING (McCain M31769)	1,356.58	97.34
34 41 13 00-0377	EA		12" CLUSTER, WITHOUT MAS (McCain M30987)	1,453.40	97.34
34 41 13 00-0378	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	904.39	64.89
34 41 13 00-0379	EA		NAVIGATOR IN2 APS 2 WIRE PPB #IN250N0-B (Polara IN250N0-B).....	904.39	64.89
34 41 13 00-0380	EA		NAVIGATOR IN2 CONTROLLER RACK MOUNT ICCU-C (Polara ICCU-C)	5,295.52	227.13
34 41 13 00-0381	EA		NAVIGATOR IN2 INTERCONNECT BOARD IN2-ICB-C (Polara IN2-ICB-C)	258.54	32.45
34 41 13 00-0382	EA		NAVIGATOR IN2 POWER SUPPLY IN2-150-WPS-C (Polara IN2-150-WPS-C).....	258.54	32.45
34 41 13 00-0383	EA		NAVIGATOR IN2 CONNECTOR IN2-C4CABLE-C (Polara IN2-c4cable-C)	581.46	48.67
34 41 13 00-0384	EA		12" Visor (McCain M19302).....	45.32	12.98
34 41 13 00-0385	EA		LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	484.64	48.67
34 41 13 00-0386	EA		SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258)	807.57	64.89
34 41 13 00-0387	EA		CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259)	1,501.82	97.34
34 41 13 00-0388	EA		ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487)	807.57	64.89
34 41 13 00-0389	EA		HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	161.71	32.45
34 41 13 00-0390	EA		ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	484.64	48.67
34 41 13 00-0391	EA		CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	904.39	64.89
34 41 13 00-0392	EA		242L ISOLATOR, EDI (McCain M56812)	161.71	32.45
34 41 13 00-0393	EA		EDI 222 DETECTOR (McCain M11407).....	210.13	32.45
34 41 13 00-0394	EA		ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	3,616.52	162.24
34 41 13 00-0395	EA		GENERATOR SWITCH AND PLUG ASSY FOR ALPHA BBS (McCain M68752-2)	594.55	64.89
34 41 13 00-0396	EA		BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	807.57	64.89
34 41 13 00-0397	EA		Battery Backup Cabinet Anondize 44x26x12 (McCain M64438A).....	1,695.47	97.34

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment (34 41 16)**

34 41 16 00-0002	EA		CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	11,785.75	995.77
34 41 16 00-0003	EA		CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	11,900.47	1,053.12
34 41 16 00-0004	EA		CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	14,575.98	1,065.51
34 41 16 00-0005	EA		CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	17,318.44	1,293.70
34 41 16 00-0006	EA		CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	14,379.10	638.20
34 41 16 00-0007	EA		CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	15,945.18	698.72
34 41 16 00-0008	EA		CONTROLLER, TS, 12-BAY, "M" CABINET	26,281.47	1,098.50
34 41 16 00-0009	EA		CONTROLLER, TS, 12-BAY, "P" CABINET	27,957.06	1,217.34
34 41 16 00-0010	EA		CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER	40,122.11	1,368.62
34 41 16 00-0011	EA		CONTROLLER, TS, 16-BAY, "P" CABINET	31,710.23	1,296.58
34 41 16 00-0012	EA		CONTROLLER, PEDESTRIAN CROSSING, ADD-IN	897.55	152.27
34 41 16 00-0013	EA		CONCRETE BLOCK PEDESTAL	837.69	228.63
34 41 16 00-0014	WK		MAINTAIN EXIST TS INSTALLATION	360.57	180.27
34 41 16 00-0015	EA		INST SIGN BOARDS, ST. NAME.....	644.75	301.53
34 41 16 00-0016	EA		F.O. ADD-IN FOR LOCAL CONTROLLER.....	13,392.39	405.97
34 41 16 00-0017	EA		F.O. ADD-IN FOR MASTER CONTROLLER.....	32,492.05	609.14
34 41 16 00-0018	EA		PDU Equipped netBooter With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	1,106.39	16.91
34 41 16 00-0019	EA		Remote Power Switched netBooter PDU, 8 Independent Outlets (Synaccess NP-0801DU)	628.28	16.91

34 41 16 00-0020 Transportation Cabinets (34 41 16)**34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)**

34 41 16 00-0022	EA		50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures)	2,899.50	194.68
34 41 16 00-0023	EA		66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	12,412.65	194.68
34 41 16 00-0024	EA		46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	2,709.66	194.68
34 41 16 00-0025	EA		50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures)	2,899.50	194.68
34 41 16 00-0026	EA		60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	12,834.52	194.68
34 41 16 00-0027	EA		55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures)	1,865.92	194.68

34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)

34 41 16 00-0029	EA		28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017).....	7,086.29	227.13
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.					

34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)

34 41 16 00-0031	EA		30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	2,733.92	194.68
34 41 16 00-0032	EA		30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	3,411.14	207.66

34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)

34 41 16 00-0034	EA		24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i)	12,935.57	227.13
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.					
34 41 16 00-0035	EA		24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332)	12,935.57	227.13
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.					
34 41 16 00-0036	EA		ATC ColdFire Controller (McCain 170).....	6,619.37	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0037	Traffic Control Equipment (34 41 16)			
34 41 16 00-0038	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	326.91	64.89
34 41 16 00-0039	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	433.71	64.89
34 41 16 00-0040	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	501.55	64.89
34 41 16 00-0041	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	386.21	64.89
34 41 16 00-0042	MLF	10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	3,031.25	711.61
34 41 16 00-0043	EA	Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	130.02	32.45
34 41 16 00-0044	EA	Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	600.59	72.36
34 41 16 00-0045	EA	Detection System, Vehicle, Two Sensor Preassembled Backplate, with AC Power (Wavetronix WX-SSB01-0003)	3,169.43	217.07
34 41 16 00-0046	EA	Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204)	575.05	32.45
34 41 16 00-0047	EA	Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	824.70	32.45
34 41 16 00-0048	EA	4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104)	943.87	64.89
34 41 16 00-0049	EA	Detection System, Vehicle, Four Sensor Preassembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005)	4,167.62	64.89
34 41 16 00-0050	EA	50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060)	434.13	217.07
34 41 16 00-0051	EA	60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060)	596.98	54.27
34 41 16 00-0052	EA	900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	513.76	72.36
34 41 16 00-0053	EA	900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120)	318.38	72.36
34 41 16 00-0054	EA	Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201)	357.96	32.45
34 41 16 00-0055	EA	24 Volt DC 2 Amperes, Wavetronix Smartsensor (Wavetronix WX-CLK-202)	433.94	32.45
34 41 16 00-0056	EA	Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250)	195.14	32.45
34 41 16 00-0057	EA	Power, RS232/RS485 Surge, Wavetronix Smartsensor (Wavetronix WX-CLK-200)	585.90	32.45
34 41 16 00-0058	EA	Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222)	661.88	32.45
34 41 16 00-0059	EA	RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304)	824.70	32.45
34 41 16 00-0060	EA	Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301)	64.89	32.45
34 41 16 00-0061	EA	Sensor Mount, Heavy-Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611)	524.61	72.36
34 41 16 00-0062	MLF	LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	3,573.97	711.61
34 41 16 00-0063	EA	N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC)	62.82	19.47
34 41 16 00-0064	EA	Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	1,072.53	77.87
34 41 16 00-0065	EA	Spectra III Clear Pendant Lower Dome, Heavy-Duty (Pelco Id53hdpb-1)	1,039.04	97.34
34 41 16 00-0066	EA	24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	220.88	32.45
34 41 16 00-0067	EA	10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	161.64	32.45
34 41 16 00-0068	EA	24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	559.09	32.45
34 41 16 00-0069	EA	Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	229.77	32.45
34 41 16 00-0070	EA	120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	89.59	32.45
34 41 16 00-0071	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)	781.05	64.89
		Note: Input/Output for sign peripherals.		
34 41 16 00-0072	EA	Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)	781.05	64.89
		Note: Input/Output for sign peripherals.		
34 41 16 00-0073	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0005)	1,486.59	64.89
		Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074	EA	Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,486.59	64.89
		Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)	498.84	64.89
		Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	715.93	64.89
		Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077	EA	Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	715.93	64.89
		Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078	EA	Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)	585.67	64.89
		Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079	EA	Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016)	10,288.10	259.58
		Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080	EA	DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	433.94	32.45
		Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081	EA	Driver (Daktronics 0P-1100-0026)	820.22	51.92
		Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082	EA	External Temp Sensor (Daktronics 0P-1100-0014)	722.53	51.92
		Note: Sensor that measures ambient temperature.		
34 41 16 00-0083	EA	Internal Temp Sensor (Daktronics 0P-1100-0038)	809.36	51.92
		Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084	EA	Light Level Detector (Daktronics 0P-1151-0002)	483.73	51.92
		Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085	EA	Module (Daktronics 0A-1253-0608)	1,486.59	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086	EA	Module (Daktronics 0A-1253-3018)	1,866.49	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087	EA	Module (Daktronics 0A-1266-5002)	1,649.40	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088	EA	Module (Daktronics 0A-1332-6252)	2,300.67	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089	EA	Module (Daktronics 0A-1332-6455)	1,866.49	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090	EA	Module (Daktronics 0A-1332-6654)	1,866.49	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091	EA	Module (Daktronics 0P-1332-3015)	998.14	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092	EA	Module (Daktronics 0P-1332-4116)	998.14	64.89
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0093	EA	Module (Daktronics 0P-1332-5031).....	998.14	64.89	
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.			
34 41 16 00-0094	EA	Module (Daktronics 0P-1332-5017).....	998.14	64.89	
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.			
34 41 16 00-0095	EA	Module Without Pan (Daktronics 0A-1253-0603)	1,486.59	64.89	
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.			
34 41 16 00-0096	EA	Module Without Pan (Daktronics 0A-1253-1605)	1,486.59	64.89	
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.			
34 41 16 00-0097	EA	Module Without Pan (Daktronics 0A-1254-1601)	1,486.59	64.89	
		Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign.			
34 41 16 00-0098	EA	Pixel Strip (Daktronics 0P-1100-0016).....	509.69	64.89	
		Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.			
34 41 16 00-0099	EA	Pixel Strip (Daktronics 0P-1100-0029).....	596.53	64.89	
		Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.			
34 41 16 00-0100	EA	Power Supply (Daktronics A-1593).....	1,757.95	64.89	
		Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.			
34 41 16 00-0101	EA	Power Supply (Daktronics A-1648).....	1,757.95	64.89	
		Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.			
34 41 16 00-0102	EA	Power Supply (Daktronics A-2307).....	672.51	64.89	
		Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.			
34 41 16 00-0103	EA	Surge Suppressor (Daktronics A-1129)	273.25	38.94	
		Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.			
34 41 16 00-0104	EA	Surge Suppressor (Daktronics A-1412)	566.32	38.94	
		Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.			
34 41 16 00-0105	EA	Surge Suppressor (Daktronics A-1772)	566.32	38.94	
		Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.			
34 41 16 00-0106	EA	Surge Suppressor (Daktronics A-2139)	837.68	38.94	
		Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.			
34 41 16 00-0107	EA	VCB, Vanguard Control Board (Daktronics 0P-1248-0022).....	1,421.46	64.89	
		Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.			
34 41 16 00-0108	EA	VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001).....	1,920.76	64.89	
		Note: Input/Output board for sign peripherals.			
34 41 16 00-0109	EA	Power Supply Assembly (Daktronics A-1856R).....	1,269.50	64.89	
34 41 16 00-0110	EA	Power Supply Isolation Board (Daktronics 0P-1447-2000)	835.32	64.89	
34 41 16 00-0111	EA	Ventilation/Circulation Fan (Daktronics B-1075)	314.31	64.89	
34 41 16 00-0112	EA	VMS Controller (V2) (Daktronics 0A-1248-0028)	10,288.10	259.58	
34 41 16 00-0113	EA	Photo/Temp Sensor (Daktronics 0P-1247-0015)	715.93	64.89	
34 41 16 00-0114	EA	Defog Fan (Daktronics B-1053)	119.16	32.45	
34 41 16 00-0115	EA	Defog Heater (Daktronics A-1792).....	151.73	32.45	
34 41 16 00-0116	EA	Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF)	943.87	64.89	
34 41 16 00-0117	EA	Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF)	943.87	64.89	
34 41 16 00-0118	EA	1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R)	1,229.73	65.04	
34 41 16 00-0119	EA	1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	1,229.73	65.04	
34 41 16 00-0120	EA	16-Port Video Encoder Featuring H.264 Technology (Verint S1816E)	6,644.69	65.04	
34 41 16 00-0121	EA	Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,588.25	65.04	
34 41 16 00-0122	EA	110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	217.00	32.45	
34 41 16 00-0123	EA	1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	758.54	65.04	
34 41 16 00-0124	EA	Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,976.33	65.04	
34 41 16 00-0125	EA	1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4)	301.50	64.89	
34 41 16 00-0126	EA	4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	651.90	64.89	
34 41 16 00-0127	EA	12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750)	301.10	16.26	
34 41 16 00-0128	EA	Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	3,810.63	129.79	
34 41 16 00-0129	EA	Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	237.01	32.45	
34 41 16 00-0130	EA	4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM)	3,458.38	64.89	
34 41 16 00-0131	EA	208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	8,126.31	321.23	
34 41 16 00-0132	EA	30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	1,087.35	168.73	
34 41 16 00-0133	EA	30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	26.82	10.38	
34 41 16 00-0134	EA	60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy-Duty, Safety Switch (Square D H362DS)	2,823.28	129.79	
34 41 16 00-0135	EA	60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60)	59.77	10.38	
34 41 16 00-0136	EA	50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820)	2,508.95	72.36	
34 41 16 00-0137	EA	Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	137.97	49.32	
34 41 16 00-0138	EA	12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469)	395.57	64.89	
34 41 16 00-0139	EA	Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT)	705.40	16.91	
34 41 16 00-0140	EA	Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	760.24	16.91	
34 41 16 00-0141	EA	550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	403.55	25.96	
34 41 16 00-0142	EA	10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	4,869.03	155.75	
34 41 16 00-0143	EA	12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	179.99	29.85	
34 41 16 00-0144	EA	6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	45.85	6.49	
34 41 16 00-0145	EA	170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,533.39	64.89	
34 41 16 00-0146	EA	12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E)	5,290.74	129.79	
34 41 16 00-0147	EA	2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000)	3,572.48	214.15	
34 41 16 00-0148	EA	100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	835.67	371.20	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	582.42	259.58
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	120.04	35.04
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	90.92	23.36
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	71.30	23.36
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	71.30	23.36
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	301.50	64.89
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	333.77	32.52
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	3,111.86	32.52
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	607.17	16.91
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	12,499.58	217.07
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	475.77	72.36

34 70 Transportation Construction and Equipment ⁽³⁴⁾**34 71 Roadway Construction** ^(34 70)**34 71 13 Vehicle Barriers** ^(34 71)**34 71 13 13 Vehicle Median Barriers** ^(34 71 13)**34 71 13 13-0001 Concrete Median Barrier** ^(34 71 13 13)

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	74.07	4.49
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	121.21	4.49
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	170.29	4.49
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	54.05	7.35
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	42.76	3.65

34 71 13 16 Vehicle Crash Barriers ^(34 71 13)**34 71 13 16-0001 Impact Barrier, Non-Redirective** ^(34 71 13 16)**34 71 13 16-0002 Sand Barrel Impact Attenuator** ^(34 71 13 16-0001)

Note: Includes containers, inserts, and lid. Excludes sand.

34 71 13 16-0003 EA 200, 400 Or 700 Lb. Sand Barrel.....	531.46	53.32
Note: Includes containers, inserts, and lid.		
34 71 13 16-0004 EA 1,400 Lb. Sand Barrel.....	504.47	62.60
Note: Includes containers, inserts, and lid.		
34 71 13 16-0005 EA 2,100 Lb. Sand Barrel.....	547.38	71.86
Note: Includes containers, inserts, and lid.		

34 71 13 16-0006 Sand For Sand Barrel Impact Attenuator ^(34 71 13 16-0001)

34 71 13 16-0007 LB Sand for Sand Barrels.....	0.10	

34 71 13 26 Vehicle Guide Rails ^(34 71 13)**34 71 13 26-0001 Mobilize Guide Rail Crew** ^(34 71 13 26)

34 71 13 26-0002 EA Mobilize Guide Rail Crew.....	1,355.82	
Note: Excludes equipment mobilization.		

34 71 13 26-0003 Corrugated Beam Guide Rail ^(34 71 13 26)**34 71 13 26-0004 Corrugated Beam Guide Railing** ^(34 71 13 26-0003)**34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections** ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.

34 71 13 26-0006 LF Corrugated Beam Guide Railing.....	35.02	2.42
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	38.06	2.42

34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved ^(34 71 13 26-0004)

Note: Add additional length for back-up sections.

34 71 13 26-0009 LF Shop Curved Corrugated Beam Guide Railing.....	46.94	2.42
34 71 13 26-0010 LF Shop Curved Corrugated Beam Guide Railing (Rustic).....	51.13	2.42
34 71 13 26-0011 LF Shop Curved Corrugated Beam Guide Railing End.....	126.29	2.42
Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012 LF Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	138.16	2.42
Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		

34 71 13 26-0013 Corrugated Beam Guide Railing, Manufactured End Sections ^(34 71 13 26-0003)

34 71 13 26-0014 EA Corrugated Beam Guide Railing End Section At Anchor Unit.....	243.05	31.95
34 71 13 26-0015 EA Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	259.27	31.95
34 71 13 26-0016 EA Corrugated Beam Guide Railing Flared Or 180 Degree End Section.....	340.37	31.95



Transportation			34
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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0017	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	356.59	31.95
34 71 13 26-0018	EA	Corrugated Beam Guide Railing 225 Degree End Section	340.37	31.95
34 71 13 26-0019	EA	Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	356.59	31.95
34 71 13 26-0020 Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003)				
Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.				
34 71 13 26-0021	EA	Regent Flared End Terminal Head With Bracket, Type B & C.....	9,586.11	194.97
34 71 13 26-0022	EA	Fleet Flared End Terminal Head With Bracket	7,964.17	194.97
34 71 13 26-0023	EA	SKT 350 Tangent End Terminal Head With Bracket.....	9,586.11	194.97
34 71 13 26-0024	EA	12'-6" Corrugated Beam Pre-drilled #1 Panel.....	1,339.01	91.91
34 71 13 26-0025	EA	Terminal Support System, Type SFT.....	1,024.12	245.75
34 71 13 26-0026	EA	Terminal Support System, Type ET	5,055.66	695.51
34 71 13 26-0027	EA	Terminal Support System, Type SRT	5,490.40	695.51
34 71 13 26-0028 Corrugated Beam Guide Rail Posts (34 71 13 26-0003)				
Note: Includes mounting hardware.				
34 71 13 26-0029	EA	Standard Post For Corrugated Beam Guide Rail.....	281.88	16.78
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	4.47	
34 71 13 26-0030	EA	Standard Post For (Rustic) Corrugated Beam Guide Rail	298.10	16.78
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	4.47	
34 71 13 26-0031	EA	Extra Long Post For Corrugated Beam Guide Rail.....	314.32	16.78
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	4.47	
34 71 13 26-0032	EA	Extra Long Post (Rustic) for Corrugated Beam Guide Rail.....	330.54	16.78
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	4.47	
34 71 13 26-0033	EA	6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail	281.88	16.78
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	4.47	
34 71 13 26-0034	EA	Post Struts for Corrugated Beam Guide Rail Mall Barrier Post.....	411.64	16.78
		For Installation In Rock, Add	4.47	
34 71 13 26-0035 Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003)				
Note: Includes mounting hardware. Excludes triangular mounting brackets.				
34 71 13 26-0036	EA	Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	281.88	16.78
34 71 13 26-0037	EA	Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	298.10	16.78
34 71 13 26-0038	EA	Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	314.32	16.78
34 71 13 26-0039	EA	Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	330.54	16.78
		Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0040	EA	Type A Post 1630mm Post.....	273.77	16.78
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0041	EA	Type A Post 1630mm Post (Rustic).....	289.99	16.78
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0042	EA	Type B Post 1460mm	257.55	16.78
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0043	EA	Type B Post 1460mm (Rustic).....	273.77	16.78
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0044	EA	Type C Post 1290mm	241.33	16.78
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045	EA	Type C Post 1290mm (Rustic).....	257.55	16.78
		Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046	EA	Breakaway Wood Or Steel Post In Steel Foundation Tube	1,095.45	16.78
34 71 13 26-0047	EA	Wood, Metal, Plastic Or Composite Offset Block Or Beam	103.47	16.78
		Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)				
34 71 13 26-0049	EA	Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	210.61	36.32
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)				
Note: Includes associated hardware.				
34 71 13 26-0051	LF	Removal And Storage Of Corrugated Beam Guide Railing And Post.....	14.19	
34 71 13 26-0052	EA	Install Stored Post For Corrugated Beam Guide Rail	48.42	
34 71 13 26-0053	LF	Install Stored Corrugated Beam Guide Railing And Post.....	8.23	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)				
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054)				
Note: Add additional length for back-up sections.				
34 71 13 26-0056	LF	Corrugated Thrie Beam Guide Railing.....	86.88	3.06
34 71 13 26-0057	LF	Corrugated Thrie Beam Guide Railing (Rustic).....	91.82	3.06
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054)				
Note: Add additional length for back-up sections.				
34 71 13 26-0059	LF	Shop Curved Corrugated Thrie Beam Guide Railing.....	106.65	3.06

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	111.59	3.06
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054) Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	360.90	3.06
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	377.12	3.06
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0064 Timber Guide Rails (34 71 13 26) Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post	118.04	12.11
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post	135.02	12.11
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post	268.08	12.11
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post	283.95	12.11
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post	329.18	12.11
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064) Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	14.67	1.45
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	20.78	1.45
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	24.36	1.45
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails	19.09	1.94
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails	22.02	1.94
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails	25.75	1.94
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	26.90	1.21
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails.....	185.14	16.95
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails	115.79	12.11
34 71 13 26-0084 Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086 LF Cable (Each Cable)	17.33	2.61
Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087 EA Cable Splice With Wedges	510.79	18.16
34 71 13 26-0088 Cable Guide Rail Posts (34 71 13 26-0084) Note: Includes hardware for cable mounting.		
34 71 13 26-0089 EA Standard Post for Cable Guide Rail.....	317.87	55.93
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.92	
34 71 13 26-0090 EA Standard Post (Rustic) for Cable Guide Rail.....	334.09	55.93
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.92	
34 71 13 26-0091 EA Extra Long Post for Cable Guide Rail	334.09	55.93
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.92	
34 71 13 26-0092 EA Extra Long Post (Rustic) for Cable Guide Rail	350.31	55.93
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.92	
34 71 13 26-0093 EA Slip Impact Post Top for Anchor Unit	224.46	22.37
34 71 13 26-0094 EA Slip Impact Post Base and Keeper Plate	629.95	22.37
Note: For anchor unit.		
34 71 13 26-0095 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors	874.92	242.60
34 71 13 26-0097 EA Turnbuckle Cable End Assembly	340.56	12.13
34 71 13 26-0098 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	1,143.40	6.03
34 71 13 26-0099 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle	1,175.84	6.03
34 71 13 26-0100 EA Breakaway Anchor Angle.....	437.87	12.13
34 71 13 26-0101 EA Standard End Post Cap Assembly.....	202.67	6.03
34 71 13 26-0102 EA Driveway End Post Cap Assembly	170.23	6.03



		Transportation	34
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0103 EA End Post Ground Support Plates.....	89.14	6.03
34 71 13 26-0104 EA 11" Stud Bolt, Cable Guide Rail.....	76.97	6.03
34 71 13 26-0105 EA 18" Stud Bolt, Cable Guide Rail.....	93.19	6.03
34 71 13 26-0106 EA 25" Stud Bolt, Cable Guide Rail.....	109.41	6.03
34 71 13 26-0107 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail.....	989.33	12.13
34 71 13 26-0108 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail.....	1,054.21	12.13
34 71 13 26-0109 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	697.38	12.13
34 71 13 26-0110 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail.....	429.74	6.03
34 71 13 26-0111 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail.....	437.87	12.13
34 71 13 26-0112 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail.....	462.13	18.16
34 71 13 26-0113 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114 EA Turnbuckle Cable End Assembly.....	787.22	18.69
Note: For use with slip impact post.		
34 71 13 26-0115 EA Spring Cable End Assembly (Compensating Device).....	1,565.75	18.69
Note: For use with slip impact post.		
34 71 13 26-0116 EA Anchor Angle For Slip Impact Post System.....	446.61	18.69
34 71 13 26-0117 EA Cable End Assembly Rod.....	365.52	18.69
Note: Includes cable end, threaded rod and keeper to anchor angle.		
34 71 13 26-0118 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)		
Note: Includes associated hardware.		
34 71 13 26-0119 LF Retention Existing Cable (Each Cable).....	1.62	
34 71 13 26-0120 LF Removal And Storage Of Cable Guide Railing.....	9.75	
34 71 13 26-0121 EA Install Stored Post For Cable Guide Railing.....	74.58	
34 71 13 26-0122 LF Install Stored Cable, (Each Cable).....	4.31	
Note: Includes retensioning. Excludes splices.		
34 71 13 26-0123 6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0124 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)		
34 71 13 26-0125 Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0126 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized.....	105.42	3.06
Note: Excludes splices.		
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0127 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic).....	120.25	3.06
Note: Excludes splices.		
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0128 LF Box Beam Guide Railing 8" x 6" x 3/16" Galvanized.....	125.72	3.06
Note: Excludes splices		
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0129 Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized.....	162.27	3.06
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0131 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic).....	177.10	3.06
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0132 LF Shop Curved Box Beam Guide Railing 8" x 6" x 3/16" Galvanized.....	193.84	3.06
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0133 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123)		
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0134 EA Box Beam End Piece Guide Railing Section.....	1,670.36	36.32
Note: Galvanized excludes splices.		
34 71 13 26-0135 EA Box Beam End Piece Guide Railing Section (Rustic).....	1,848.77	36.32
Note: Excludes splices.		
34 71 13 26-0136 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized.....	1,573.04	36.32
Note: Excludes splices.		
34 71 13 26-0137 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic).....	1,637.92	36.32
Note: Excludes splices.		
34 71 13 26-0138 EA Box Beam Guiderail End Assembly.....	47,255.79	968.45
Note: Includes all components for the first 14'. Includes energy absorbing terminal, bearing plate, steel breakaway post upper and lower assembly, interior sleeve, box beam, post breaker, cable assembly, end tube rail, end tube tie plate, post 1 and post 2.		
34 71 13 26-0139 Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0140 EA Splice For Box Beam Guide Rail.....	351.11	53.91
34 71 13 26-0141 EA Splice For Box Beam Guide Rail (Rustic).....	464.65	53.91

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0142	Box Beam Guide Rail Posts (34 71 13 26-0123)			
	Note: Includes hardware for box beam mounting.			
34 71 13 26-0143	EA	Standard Post For Box Beam Guide Rail.....	334.09	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0144	EA	Standard Post (Rustic) for Box Beam Guide Railing.....	350.31	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0145	EA	Extra Long Post For Box Beam Guide Rail.....	366.53	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0146	EA	Extra Long Post (Rustic) For Box Beam Guide Rail	382.75	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0147	EA	Type I End Assembly Post.....	317.87	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0148	EA	Type I End Assembly Post (Rustic)	334.09	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0149	EA	Type II End Assembly Post.....	301.65	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0150	EA	Type II End Assembly Post (Rustic).....	317.87	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	
34 71 13 26-0151	Box Beam Guide Rail Accessories (34 71 13 26-0123)			
34 71 13 26-0152	EA	Box Beam Guide Rail End Cover Plate.....	209.16	10.89
34 71 13 26-0153	EA	Box Beam Guide Rail End Cover Plate (Rustic)	225.38	10.89
34 71 13 26-0154	Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123)			
	Note: For existing guide rail.			
34 71 13 26-0155	LF	Removal And Storage Of Box Beam Guide Rail And Post	4.78	
34 71 13 26-0156	LF	Reset Box Beam Guide Rail	13.96	
34 71 13 26-0157	6" x 8" Box Beam Median Barrier (34 71 13 26)			
34 71 13 26-0158	Box Beam Median Barrier, 6" x 8" (34 71 13 26-0157)			
34 71 13 26-0159	Straight Sections, Box Beam Median Barrier (34 71 13 26-0158)			
34 71 13 26-0160	LF	Box Beam Median Barrier Galvanized Excludes Splices	170.26	10.89
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0161	LF	Box Beam Median Barrier (Rustic) Excludes Splices.....	185.09	10.89
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0162	Shop Curved, Box Beam Median Barrier (34 71 13 26-0158)			
34 71 13 26-0163	LF	Shop Curved Box Beam Median Barrier Galvanized	209.23	10.89
		Note: Excludes splices.		
		For Shop Curved At <20' Radius, Add	2.44	
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0164	LF	Shop Curved Box Beam Median Barrier Rustic	257.91	10.89
		Note: Excludes splices.		
		For Shop Curved At <20' Radius, Add	2.44	
		For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0165	Box Beam Median Barrier End Treatment Sections (34 71 13 26-0157)			
	Note: Includes rail, end cover plate and hardware. Excludes posts.			
34 71 13 26-0166	EA	Box Beam Median Barrier Type A End Treatment Section, Galvanized	5,546.80	36.32
		Note: Excludes splices and post.		
34 71 13 26-0167	EA	Box Beam Median Barrier Type A End Treatment Section (Rustic).....	5,676.55	36.32
		Note: Excludes splices and post.		
34 71 13 26-0168	EA	Box Beam Median Barrier Type B End Treatment Section, Galvanized	5,546.80	36.32
		Note: Excludes splices and post.		
34 71 13 26-0169	EA	Box Beam Median Barrier Type B End Treatment Section (Rustic).....	5,676.55	36.32
		Note: Excludes splices and post.		
34 71 13 26-0170	Splices For Box Beam Median Barrier (34 71 13 26-0157)			
34 71 13 26-0171	EA	Splice for Box Beam Median Barrier	395.57	29.06
34 71 13 26-0172	EA	Splice for Box Beam Median Barrier (Rustic).....	638.86	29.06
34 71 13 26-0173	Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0157)			
	Note: Includes all associated hardware.			
34 71 13 26-0174	EA	Standard Post for Box Beam Median Barrier	334.09	55.93
		For Installation Without Soil Plate, Deduct	-5.00	
		For Installation In Rock, Add	14.92	



		Transportation	34
		Transportation Construction and Equipment	34 70
		Roadway Construction	34 71

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
34 71 13 26-0175	EA Standard Post (Rustic) for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	350.31	-5.00 14.92	55.93
34 71 13 26-0176	EA Extra Long Post for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	366.53	-5.00 14.92	55.93
34 71 13 26-0177	EA Extra Long Post (Rustic) for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	382.75	-5.00 14.92	55.93
34 71 13 26-0178	EA Type B End Treatment or Rub Back Anchor Post for Box Beam..... Note: For median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	301.65	-5.00 14.92	55.93
34 71 13 26-0179	EA Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	301.65	-5.00 14.92	55.93
34 71 13 26-0180	EA Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	366.53	-5.00 14.92	55.93
34 71 13 26-0181	EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier Note: For Concrete median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	382.75	-5.00 14.92	55.93
34 71 13 26-0182	Box Beam Median Barrier Accessories (34 71 13 26-0157)			
34 71 13 26-0183	EA Box Beam Median Barrier End Cover Plate.....	241.48		25.57
34 71 13 26-0184	EA Box Beam Median Barrier End Cover Plate (Rustic)	257.70		25.57
34 71 13 26-0185	Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0157)			
	Note: For existing guide rail.			
34 71 13 26-0186	LF Removal And Storage Of Box Beam Median Barrier and Posts	4.94		
34 71 13 26-0187	LF Reset Box Beam Median Barrier	14.62		
34 71 13 26-0188	Universal Guide Rail Items (34 71 13 26)			
34 71 13 26-0189	Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0188)			
	Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.			
34 71 13 26-0190	CY Guide Rail Concrete Anchor Unit..... <i>For Each Additional Set Of Anchor Rods, Add</i>	840.55	38.00	
34 71 13 26-0191	EA Reset Existing Anchorage Unit for All Types of Guide Rail..... Note: Includes excavation and backfill.	555.34		
34 71 13 26-0192	EA Removal Of Guide Rail Concrete Anchor Unit.....	623.18		
34 71 13 26-0193	Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0188)			
	Note: Includes associated hardware.			
34 71 13 26-0194	EA Straighten And Reset Driven Post For Guide Rail	74.58		
34 71 13 26-0195	EA Straighten And Reset Post Mounted On Concrete For Guide Rail	97.94		
	Note: With base plate for guide rail. Includes new anchor bolts.			
34 71 13 26-0196	Additional Wood and Steel Posts (34 71 13 26-0188)			
34 71 13 26-0197	LF 4" x 6" Wood Post..... <i>For Installation In Rock, Add</i>	101.94	4.98	18.69
34 71 13 26-0198	LF 6" x 8" Wood Post..... <i>For Installation In Rock, Add</i>	126.27	4.98	18.69
34 71 13 26-0199	LF 6" x 7/8" Galvanized Steel Post..... <i>For Installation In Rock, Add</i>	70.86	4.98	18.69
34 71 13 26-0200	EA Base Plate With Anchor Bolts For Mounting Post On Concrete	762.88		18.69
34 71 13 26-0201	Accessories For All Types of Guide Rail (34 71 13 26-0188)			
34 71 13 26-0202	EA Reflector For Guard Rail	101.39		
34 71 13 26-0203	Resilient Guard Fence And Light Shield (34 71 13 26)			
34 71 13 26-0204	LF Resilient Guard Fence And Light Shield, Up To 6' High	89.21		7.42
34 71 13 26-0205	Individual Concrete Guard Rail Posts (34 71 13 26)			
34 71 13 26-0206	EA 6'-5" Concrete Guard Rail Posts, Round	96.66		7.42
34 71 13 26-0207	EA 6'-5" Concrete Posts, Square.....	108.08		8.35
34 71 13 26-0208	EA 6'-5" Concrete Posts, Triangular.....	105.18		8.35

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
34 71 13 26-0209	Guide Rail Transitions (34 71 13 26)				
34 71 13 26-0210	Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0209)				
34 71 13 26-0211	EA Box Beam To Corrugated Beam Rail Bolted Section.....	1,296.62			
34 71 13 26-0212	EA Box Beam To Corrugated Beam Rail Bolted Plate	647.85			
	Note: For making cable connections.				
34 71 13 26-0213	Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0209)				
34 71 13 26-0214	EA Box Beam Median Barrier To Corrugated Beam Bolted Section	1,329.06			
34 71 13 26-0215	EA Box Beam Median Barrier To Corrugated Beam Harness Plate	647.85			
	Note: For making cable connections.				
34 71 13 26-0216	Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0209)				
34 71 13 26-0217	EA Box Beam to Cable Guide Rail U-bolt And Plate	194.53		19.36	
34 71 13 26-0218	Transition Box Beam Median Barrier To Concrete Median Barrier (34 71 13 26-0209)				
34 71 13 26-0219	EA Box Beam Median Barrier To Concrete Barrier End Connection	1,945.40			
34 71 13 26-0220	Transition Thrie Beam To Concrete Median Barrier (34 71 13 26-0209)				
34 71 13 26-0221	EA Thrie Beam Terminal Connector At Concrete Median Barrier.....	1,134.43			
34 71 13 26-0222	EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	1,539.92			
34 71 13 26-0223	Transition Railing (Monterey County) (34 71 13 26)				
	Note: Complete with rail, posts, transition and bolts.				
34 71 13 26-0224	EA Transition Railing, Type WB-31 (Monterey County).....	3,378.35		2.42	
34 71 16	Impact Attenuating Devices (34 71)				
34 71 16 00-0001	Guard Rail Energy Absorbing Terminals (34 71 16)				
	Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. One Bay consists of one Cartridge, one Diaphragm, and two Fender Panels. The Nose section is not considered a Bay, though there is a Cartridge in the Nose of each system. QuadGuard System as manufactured by Energy Absorption Systems, Inc.				
34 71 16 00-0002	24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)				
	Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.				
34 71 16 00-0003	EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	38,995.03		3,701.14	
34 71 16 00-0004	EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	54,246.20		4,934.85	
34 71 16 00-0005	EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	80,372.63		6,477.00	
34 71 16 00-0006	EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	82,057.22		8,019.14	
34 71 16 00-0007	30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)				
	Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.				
34 71 16 00-0008	EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	41,912.46		4,163.78	
34 71 16 00-0009	EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	58,492.54		5,551.71	
34 71 16 00-0010	EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	80,372.63		7,402.28	
34 71 16 00-0011	EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	91,842.58		8,944.43	
34 71 16 00-0012	36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)				
	Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.				
34 71 16 00-0013	EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	44,865.81		4,626.42	
34 71 16 00-0014	EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	62,774.01		6,168.57	
34 71 16 00-0015	EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	85,948.43		8,173.35	
34 71 16 00-0016	EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	101,591.03		9,869.71	
34 71 16 00-0017	69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)				
	Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.				
34 71 16 00-0018	EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	48,549.03		5,089.07	
34 71 16 00-0019	EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	67,340.05		6,785.42	
34 71 16 00-0020	EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	92,660.79		8,944.43	
34 71 16 00-0021	EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	108,990.25		10,794.99	
34 71 16 00-0022	90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)				
	Note: Includes nose section, cartridge bays, side fender panels, posts and anchor plates.				
34 71 16 00-0023	EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	52,338.24		5,551.71	
34 71 16 00-0024	EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	72,030.53		7,402.28	
34 71 16 00-0025	EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	100,239.22		9,869.71	
34 71 16 00-0026	EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	116,607.56		11,720.27	
34 71 19	Vehicle Delineators (34 71)				



Transportation		34
Transportation Construction and Equipment		34 70
Roadway Construction		34 71

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 71 19 16 Flexible Vehicle Delineators (34 71 19)

34 71 19 16-0001	EA	2' High, 3" Diameter Flexible Fixed Stanchion Delineator	97.90	9.28
34 71 19 16-0002	EA	3' High, 3" Diameter Flexible Fixed Stanchion Delineator	99.29	9.28
34 71 19 16-0003	EA	3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	100.69	9.28
34 71 19 16-0004	EA	4' High, 3" Diameter Flexible Fixed Stanchion Delineator	102.08	9.28

34 80 Bridges (34)**34 82 Bridge Specialties** (34 80)**34 82 23 Bridge Railing** (34 82)**34 82 23 00-0001 Metal Bridge Railing** (34 82 23)

Note: Includes hardware for bridge rail mounting.

34 82 23 00-0002	LF	2" x 2" x 1/8" Bridge Railing	45.92	3.99
34 82 23 00-0003	LF	3" x 3" x 5/16" Bridge Railing	83.37	6.22
34 82 23 00-0004	LF	5" x 3" x 1/4" Bridge Railing	104.61	9.12
34 82 23 00-0005	LF	6" x 6" x 3/16" Bridge Railing	136.42	11.47
34 82 23 00-0006	LF	5" Outside Diameter x 1/4" Bridge Railing	112.11	8.85

34 82 23 00-0007 Bridge Post (34 82 23)

Note: Includes hardware for bridge post mounting.

34 82 23 00-0008	EA	6" x 9" x 5'-6" Bridge Post	207.73	51.52
34 82 23 00-0009	EA	6" x 9" x 7' Bridge Post	270.84	54.74
34 82 23 00-0010	EA	Two Rail With Base Plate Bridge Post Assembly	663.13	96.60
34 82 23 00-0011	EA	Two Rail With Curb Bridge Post Assembly	835.04	103.05
34 82 23 00-0012	EA	Two Rail (Curbless) Bridge Post Assembly	749.95	103.05
34 82 23 00-0013	EA	Two Rail With Optional Handrail Bridge Post Assembly	931.07	103.05
34 82 23 00-0014	EA	Three Rail With Base Plate Bridge Post Assembly	683.53	103.05
34 82 23 00-0015	EA	Three Rail With Curb Bridge Post Assembly	976.63	106.27
34 82 23 00-0016	EA	Three Rail (Curbless) Bridge Post Assembly	954.20	106.27
34 82 23 00-0017	EA	Three Rail With Optional Handrail Bridge Post Assembly	1,208.88	106.27
34 82 23 00-0018	EA	Four Rail (Curbless) With Base Plate Bridge Post	766.89	109.48
34 82 23 00-0019	EA	Four Rail With Base Plate (Sidewalk Type) Bridge Post	767.13	109.48
34 82 23 00-0020	EA	Four Rail With Curb Bridge Post Assembly	1,222.33	109.48
34 82 23 00-0021	EA	Four Rail (Curbless) Bridge Post Assembly	1,259.31	109.48
34 82 23 00-0022	EA	Five Rail With Base Plate (Curbless) Bridge Post Assembly	860.88	115.92

34 82 23 00-0023 Bridge Railing Splices (34 82 23)

Note: Includes hardware for splices.

34 82 23 00-0024	EA	5" Outside Diameter Bridge Railing Splice	387.53	24.80
34 82 23 00-0025	EA	5" x 3" Bridge Railing Splice	220.88	21.70
34 82 23 00-0026	EA	3" x 3" Bridge Railing Splice	132.96	15.51
34 82 23 00-0027	EA	2" x 2" Bridge Railing Splice	63.21	11.16
34 82 23 00-0028	EA	5" x 5" x 3' Expansion Splice Tube	287.16	23.98
34 82 23 00-0029	EA	4" x 2" x 3' Expansion Splice Bar	307.95	23.98
34 82 23 00-0030	EA	5" x 5" x 2' Fixed Splice Tube	259.81	23.98
34 82 23 00-0031	EA	4" x 2" x 2' Fixed Splice Bar	267.33	23.98
34 82 23 00-0032	EA	6" x 6" x 3/16" Box x 9' Flare Tube	387.71	32.38

34 82 23 00-0033 Transition For Bridge Railing (34 82 23)

Note: Includes hardware for transition for bridge railing.

34 82 23 00-0034	EA	Two Rail Box Beam To Bridge Transition With Splices	1,585.08	128.81
34 82 23 00-0035	EA	Three Rail Box Beam To Bridge Transition With Splices	1,689.18	135.24
34 82 23 00-0036	EA	Four Rail Box Beam To Bridge Transition With Splices	1,990.22	141.68
34 82 23 00-0037	EA	6" x 6" x 16-1/2' Bottom Transition Tube	656.86	64.40
34 82 23 00-0038	EA	6" x 6" x 22' Bottom Transition Tube	820.69	70.84
34 82 23 00-0039	EA	8" x 6" x 16-1/2' Bottom Transition Tube	779.25	64.40
34 82 23 00-0040	EA	6" x 6" x 16-1/2' Top Transition Tube	675.26	64.40
34 82 23 00-0041	EA	6" x 6" x 21-1/2' Top Transition Tube	805.49	70.84
34 82 23 00-0042	EA	8" x 6" x 16-1/2' Top Transition Tube	802.08	64.40
34 82 23 00-0043	EA	6" x 6" x 16-1/2' Middle Transition Tube	631.64	64.40
34 82 23 00-0044	EA	8" x 6" x 16-1/2' Middle Transition Tube	790.66	64.40

34 82 23 00-0045 Anchor Plates And End Caps For Bridge Railing (34 82 23)

34 82 23 00-0046	EA	14" x 14" Bridge Railing Anchor Plate	70.26	6.20
34 82 23 00-0047	EA	18" x 22" Deck Anchor Plate	431.79	30.99
34 82 23 00-0048	EA	2" x 2" Bridge Railing End Cap	59.38	3.10
34 82 23 00-0049	EA	3" x 3" Bridge Railing End Cap	35.75	3.10
34 82 23 00-0050	EA	5" O.D Bridge Railing End Cap	35.47	3.10

34 82 26 Bridge Slope Protection (34 82)**34 82 26 00-0001 Bridge Slope Protection** (34 82 26)

Note: Solid concrete masonry unit installed in sand bedding.

34	34	Transportation
	34 80	Bridges
	34 82	Bridge Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
34 82 26 00-0002	SF	8" x 16" x 4"	Solid Concrete Block, Bridge Slope Protection.....	15.81		5.97
34 82 26 00-0003	SF	8" x 16" x 6"	Solid Concrete Block, Bridge Slope Protection.....	18.91		6.58
34 82 26 00-0004	SF	8" x 16" x 8"	Solid Concrete Block, Bridge Slope Protection.....	20.96		6.99

END OF SECTION 34



Waterway and Marine Construction		35	35
Common Work Results for Waterway and Marine Construction		35 05	
Common Work Results for Dams		35 05 70	

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST

35 Waterway and Marine Construction
35 05 Common Work Results for Waterway and Marine Construction
Construction (35)

35 05 70 Common Work Results for Dams (35 05)

35 05 70 00-0001	Rubber Dam Repair (35 05 70)		
35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	40.19
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	80.39
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	117.47
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	131.39

END OF SECTION 35

35	35	Waterway and Marine Construction
	35 05	Common Work Results for Waterway and Marine Construction
	35 05 70	Common Work Results for Dams



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

40

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

40 Process Interconnections

40 05 Common Work Results For Process Interconnections ⁽⁴⁰⁾

40 05 19 Ductile Iron Process Pipe ^(40 05)

40 05 19 00-0001	Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping ^(40 05 19) Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.			
40 05 19 00-0002	Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0001)			
40 05 19 00-0003	4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe ^(40 05 19 00-0002)			
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	991.54	251.93	
	For Class 52 Rating, Deduct	-67.08		
	For Class 54 Rating, Add	96.06		
	For Class 55 Rating, Add	145.15		
	For Class 56 Rating, Add	193.64		
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,063.47	256.34	
	For Class 52 Rating, Deduct	-74.26		
	For Class 54 Rating, Add	105.92		
	For Class 55 Rating, Add	159.86		
	For Class 56 Rating, Add	213.13		
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,135.39	260.74	
	For Class 52 Rating, Deduct	-81.44		
	For Class 54 Rating, Add	115.79		
	For Class 55 Rating, Add	174.58		
	For Class 56 Rating, Add	232.62		
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,207.32	265.15	
	For Class 52 Rating, Deduct	-88.61		
	For Class 54 Rating, Add	125.66		
	For Class 55 Rating, Add	189.29		
	For Class 56 Rating, Add	252.11		
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,279.25	269.55	
	For Class 52 Rating, Deduct	-95.79		
	For Class 54 Rating, Add	135.53		
	For Class 55 Rating, Add	204.00		
	For Class 56 Rating, Add	271.60		
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,351.17	273.96	
	For Class 52 Rating, Deduct	-102.97		
	For Class 54 Rating, Add	145.39		
	For Class 55 Rating, Add	218.71		
	For Class 56 Rating, Add	291.09		
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,423.09	278.36	
	For Class 52 Rating, Deduct	-110.15		
	For Class 54 Rating, Add	155.26		
	For Class 55 Rating, Add	233.42		
	For Class 56 Rating, Add	310.58		
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,495.01	282.77	
	For Class 52 Rating, Deduct	-117.32		
	For Class 54 Rating, Add	165.13		
	For Class 55 Rating, Add	248.13		
	For Class 56 Rating, Add	330.06		
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,566.94	287.17	
	For Class 52 Rating, Deduct	-124.50		
	For Class 54 Rating, Add	175.00		
	For Class 55 Rating, Add	262.84		
	For Class 56 Rating, Add	349.55		
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,638.86	291.58	
	For Class 52 Rating, Deduct	-131.68		
	For Class 54 Rating, Add	184.86		
	For Class 55 Rating, Add	277.55		
	For Class 56 Rating, Add	369.04		
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,710.78	295.97	
	For Class 52 Rating, Deduct	-138.86		
	For Class 54 Rating, Add	194.73		
	For Class 55 Rating, Add	292.26		
	For Class 56 Rating, Add	388.53		
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,782.71	300.38	
	For Class 52 Rating, Deduct	-146.03		
	For Class 54 Rating, Add	204.60		
	For Class 55 Rating, Add	306.97		
	For Class 56 Rating, Add	408.02		
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,854.63	304.78	
	For Class 52 Rating, Deduct	-153.21		
	For Class 54 Rating, Add	214.47		
	For Class 55 Rating, Add	321.68		
	For Class 56 Rating, Add	427.51		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017	EA		4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,926.55	309.19
			For Class 52 Rating, Deduct	-160.39	
			For Class 54 Rating, Add	224.33	
			For Class 55 Rating, Add	336.40	
			For Class 56 Rating, Add	447.00	
40 05 19 00-0018	EA		4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,998.47	313.59
			For Class 52 Rating, Deduct	-167.57	
			For Class 54 Rating, Add	234.20	
			For Class 55 Rating, Add	351.11	
			For Class 56 Rating, Add	466.49	
40 05 19 00-0019	EA		4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,070.40	318.00
			For Class 52 Rating, Deduct	-174.74	
			For Class 54 Rating, Add	244.07	
			For Class 55 Rating, Add	365.82	
			For Class 56 Rating, Add	485.98	
40 05 19 00-0020	EA		4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,142.32	322.40
			For Class 52 Rating, Deduct	-181.92	
			For Class 54 Rating, Add	253.94	
			For Class 55 Rating, Add	380.53	
			For Class 56 Rating, Add	505.47	
40 05 19 00-0021	EA		4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,214.24	326.81
			For Class 52 Rating, Deduct	-189.10	
			For Class 54 Rating, Add	263.80	
			For Class 55 Rating, Add	395.24	
			For Class 56 Rating, Add	524.95	
40 05 19 00-0022	EA		4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,286.17	331.21
			For Class 52 Rating, Deduct	-196.28	
			For Class 54 Rating, Add	273.67	
			For Class 55 Rating, Add	409.95	
			For Class 56 Rating, Add	544.44	
40 05 19 00-0023	EA		4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,358.09	335.62
			For Class 52 Rating, Deduct	-203.45	
			For Class 54 Rating, Add	283.54	
			For Class 55 Rating, Add	424.66	
			For Class 56 Rating, Add	563.93	
40 05 19 00-0024	EA		4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,430.01	340.02
			For Class 52 Rating, Deduct	-210.63	
			For Class 54 Rating, Add	293.41	
			For Class 55 Rating, Add	439.37	
			For Class 56 Rating, Add	583.42	
40 05 19 00-0025	EA		4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,501.93	344.43
			For Class 52 Rating, Deduct	-217.81	
			For Class 54 Rating, Add	303.27	
			For Class 55 Rating, Add	454.08	
			For Class 56 Rating, Add	602.91	
40 05 19 00-0026	EA		4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,573.86	348.83
			For Class 52 Rating, Deduct	-224.99	
			For Class 54 Rating, Add	313.14	
			For Class 55 Rating, Add	468.79	
			For Class 56 Rating, Add	622.40	
40 05 19 00-0027	EA		4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,645.78	353.24
			For Class 52 Rating, Deduct	-232.16	
			For Class 54 Rating, Add	323.01	
			For Class 55 Rating, Add	483.50	
			For Class 56 Rating, Add	641.89	
40 05 19 00-0028	EA		4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,717.70	357.64
			For Class 52 Rating, Deduct	-239.34	
			For Class 54 Rating, Add	332.88	
			For Class 55 Rating, Add	498.21	
			For Class 56 Rating, Add	661.37	
40 05 19 00-0029	EA		4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,789.63	362.05
			For Class 52 Rating, Deduct	-246.52	
			For Class 54 Rating, Add	342.74	
			For Class 55 Rating, Add	512.92	
			For Class 56 Rating, Add	680.86	
40 05 19 00-0030	EA		4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,861.55	366.44
			For Class 52 Rating, Deduct	-253.70	
			For Class 54 Rating, Add	352.61	
			For Class 55 Rating, Add	527.63	
			For Class 56 Rating, Add	700.35	
40 05 19 00-0031	EA		4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,933.47	370.85
			For Class 52 Rating, Deduct	-260.87	
			For Class 54 Rating, Add	362.48	
			For Class 55 Rating, Add	542.35	
			For Class 56 Rating, Add	719.84	
40 05 19 00-0032	EA		4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,005.39	375.25
			For Class 52 Rating, Deduct	-268.05	
			For Class 54 Rating, Add	372.35	
			For Class 55 Rating, Add	557.06	
			For Class 56 Rating, Add	739.33	
40 05 19 00-0033	EA		4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,077.32	379.66
			For Class 52 Rating, Deduct	-275.23	
			For Class 54 Rating, Add	382.21	
			For Class 55 Rating, Add	571.77	
			For Class 56 Rating, Add	758.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034	EA	4"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,149.24	384.06
			For Class 52 Rating, Deduct	-282.41	
			For Class 54 Rating, Add	392.08	
			For Class 55 Rating, Add	586.48	
			For Class 56 Rating, Add	778.31	
40 05 19 00-0035	EA	4"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,221.16	388.47
			For Class 52 Rating, Deduct	-289.58	
			For Class 54 Rating, Add	401.95	
			For Class 55 Rating, Add	601.19	
			For Class 56 Rating, Add	797.80	
40 05 19 00-0036	EA	4"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,293.09	392.88
			For Class 52 Rating, Deduct	-296.76	
			For Class 54 Rating, Add	411.82	
			For Class 55 Rating, Add	615.90	
			For Class 56 Rating, Add	817.29	
40 05 19 00-0037	EA	4"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,365.01	397.28
			For Class 52 Rating, Deduct	-303.94	
			For Class 54 Rating, Add	421.68	
			For Class 55 Rating, Add	630.61	
			For Class 56 Rating, Add	836.78	
40 05 19 00-0038	EA	4"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,436.93	401.69
			For Class 52 Rating, Deduct	-311.12	
			For Class 54 Rating, Add	431.55	
			For Class 55 Rating, Add	645.32	
			For Class 56 Rating, Add	856.26	
40 05 19 00-0039	EA	4"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,508.85	406.09
			For Class 52 Rating, Deduct	-318.29	
			For Class 54 Rating, Add	441.42	
			For Class 55 Rating, Add	660.03	
			For Class 56 Rating, Add	875.75	
40 05 19 00-0040	EA	4"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,580.78	410.50
			For Class 52 Rating, Deduct	-325.47	
			For Class 54 Rating, Add	451.29	
			For Class 55 Rating, Add	674.74	
			For Class 56 Rating, Add	895.24	
40 05 19 00-0041	EA	4"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,652.70	414.90
			For Class 52 Rating, Deduct	-332.65	
			For Class 54 Rating, Add	461.15	
			For Class 55 Rating, Add	689.45	
			For Class 56 Rating, Add	914.73	
40 05 19 00-0042	EA	4"	Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,724.63	419.31
			For Class 52 Rating, Deduct	-339.83	
			For Class 54 Rating, Add	471.02	
			For Class 55 Rating, Add	704.17	
			For Class 56 Rating, Add	934.22	
40 05 19 00-0043			6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0044	EA	6"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,255.95	317.12
			For Class 52 Rating, Deduct	-85.30	
			For Class 54 Rating, Add	122.09	
			For Class 55 Rating, Add	184.46	
			For Class 56 Rating, Add	246.06	
40 05 19 00-0045	EA	6"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,342.93	321.53
			For Class 52 Rating, Deduct	-94.13	
			For Class 54 Rating, Add	134.21	
			For Class 55 Rating, Add	202.53	
			For Class 56 Rating, Add	269.99	
40 05 19 00-0046	EA	6"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,429.91	325.92
			For Class 52 Rating, Deduct	-102.97	
			For Class 54 Rating, Add	146.34	
			For Class 55 Rating, Add	220.60	
			For Class 56 Rating, Add	293.92	
40 05 19 00-0047	EA	6"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,516.89	330.33
			For Class 52 Rating, Deduct	-111.80	
			For Class 54 Rating, Add	158.46	
			For Class 55 Rating, Add	238.67	
			For Class 56 Rating, Add	317.85	
40 05 19 00-0048	EA	6"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,603.87	334.73
			For Class 52 Rating, Deduct	-120.64	
			For Class 54 Rating, Add	170.59	
			For Class 55 Rating, Add	256.74	
			For Class 56 Rating, Add	341.78	
40 05 19 00-0049	EA	6"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,690.85	339.14
			For Class 52 Rating, Deduct	-129.47	
			For Class 54 Rating, Add	182.72	
			For Class 55 Rating, Add	274.80	
			For Class 56 Rating, Add	365.71	
40 05 19 00-0050	EA	6"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,777.84	343.54
			For Class 52 Rating, Deduct	-138.30	
			For Class 54 Rating, Add	194.84	
			For Class 55 Rating, Add	292.87	
			For Class 56 Rating, Add	389.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051	EA		6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,864.82	347.95
			For Class 52 Rating, Deduct	-147.14	
			For Class 54 Rating, Add	206.97	
			For Class 55 Rating, Add	310.94	
			For Class 56 Rating, Add	413.58	
40 05 19 00-0052	EA		6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,951.80	352.35
			For Class 52 Rating, Deduct	-155.97	
			For Class 54 Rating, Add	219.09	
			For Class 55 Rating, Add	329.01	
			For Class 56 Rating, Add	437.51	
40 05 19 00-0053	EA		6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,038.78	356.76
			For Class 52 Rating, Deduct	-164.81	
			For Class 54 Rating, Add	231.22	
			For Class 55 Rating, Add	347.08	
			For Class 56 Rating, Add	461.44	
40 05 19 00-0054	EA		6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,125.76	361.16
			For Class 52 Rating, Deduct	-173.64	
			For Class 54 Rating, Add	243.35	
			For Class 55 Rating, Add	365.15	
			For Class 56 Rating, Add	485.37	
40 05 19 00-0055	EA		6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,212.74	365.57
			For Class 52 Rating, Deduct	-182.47	
			For Class 54 Rating, Add	255.47	
			For Class 55 Rating, Add	383.22	
			For Class 56 Rating, Add	509.30	
40 05 19 00-0056	EA		6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,299.72	369.97
			For Class 52 Rating, Deduct	-191.31	
			For Class 54 Rating, Add	267.60	
			For Class 55 Rating, Add	401.28	
			For Class 56 Rating, Add	533.23	
40 05 19 00-0057	EA		6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,386.70	374.38
			For Class 52 Rating, Deduct	-200.14	
			For Class 54 Rating, Add	279.73	
			For Class 55 Rating, Add	419.35	
			For Class 56 Rating, Add	557.16	
40 05 19 00-0058	EA		6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,473.68	378.78
			For Class 52 Rating, Deduct	-208.97	
			For Class 54 Rating, Add	291.85	
			For Class 55 Rating, Add	437.42	
			For Class 56 Rating, Add	581.09	
40 05 19 00-0059	EA		6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,560.65	383.19
			For Class 52 Rating, Deduct	-217.81	
			For Class 54 Rating, Add	303.98	
			For Class 55 Rating, Add	455.49	
			For Class 56 Rating, Add	605.02	
40 05 19 00-0060	EA		6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,647.64	387.60
			For Class 52 Rating, Deduct	-226.64	
			For Class 54 Rating, Add	316.10	
			For Class 55 Rating, Add	473.56	
			For Class 56 Rating, Add	628.95	
40 05 19 00-0061	EA		6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,734.62	392.00
			For Class 52 Rating, Deduct	-235.48	
			For Class 54 Rating, Add	328.23	
			For Class 55 Rating, Add	491.63	
			For Class 56 Rating, Add	652.89	
40 05 19 00-0062	EA		6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,821.60	396.40
			For Class 52 Rating, Deduct	-244.31	
			For Class 54 Rating, Add	340.36	
			For Class 55 Rating, Add	509.70	
			For Class 56 Rating, Add	676.82	
40 05 19 00-0063	EA		6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,908.58	400.80
			For Class 52 Rating, Deduct	-253.14	
			For Class 54 Rating, Add	352.48	
			For Class 55 Rating, Add	527.76	
			For Class 56 Rating, Add	700.75	
40 05 19 00-0064	EA		6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,995.56	405.21
			For Class 52 Rating, Deduct	-261.98	
			For Class 54 Rating, Add	364.61	
			For Class 55 Rating, Add	545.83	
			For Class 56 Rating, Add	724.68	
40 05 19 00-0065	EA		6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,082.54	409.61
			For Class 52 Rating, Deduct	-270.81	
			For Class 54 Rating, Add	376.74	
			For Class 55 Rating, Add	563.90	
			For Class 56 Rating, Add	748.61	
40 05 19 00-0066	EA		6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,169.51	414.02
			For Class 52 Rating, Deduct	-279.64	
			For Class 54 Rating, Add	388.86	
			For Class 55 Rating, Add	581.97	
			For Class 56 Rating, Add	772.54	
40 05 19 00-0067	EA		6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,256.51	418.42
			For Class 52 Rating, Deduct	-288.48	
			For Class 54 Rating, Add	400.99	
			For Class 55 Rating, Add	600.04	
			For Class 56 Rating, Add	796.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068	EA	6"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,343.49	422.83
			For Class 52 Rating, Deduct	-297.31	
			For Class 54 Rating, Add	413.11	
			For Class 55 Rating, Add	618.11	
			For Class 56 Rating, Add	820.40	
40 05 19 00-0069	EA	6"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,430.47	427.23
			For Class 52 Rating, Deduct	-306.15	
			For Class 54 Rating, Add	425.24	
			For Class 55 Rating, Add	636.18	
			For Class 56 Rating, Add	844.33	
40 05 19 00-0070	EA	6"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,517.45	431.64
			For Class 52 Rating, Deduct	-314.98	
			For Class 54 Rating, Add	437.37	
			For Class 55 Rating, Add	654.25	
			For Class 56 Rating, Add	868.26	
40 05 19 00-0071	EA	6"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,604.43	436.04
			For Class 52 Rating, Deduct	-323.81	
			For Class 54 Rating, Add	449.49	
			For Class 55 Rating, Add	672.31	
			For Class 56 Rating, Add	892.19	
40 05 19 00-0072	EA	6"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,691.41	440.45
			For Class 52 Rating, Deduct	-332.65	
			For Class 54 Rating, Add	461.62	
			For Class 55 Rating, Add	690.38	
			For Class 56 Rating, Add	916.12	
40 05 19 00-0073	EA	6"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,778.39	444.85
			For Class 52 Rating, Deduct	-341.48	
			For Class 54 Rating, Add	473.75	
			For Class 55 Rating, Add	708.45	
			For Class 56 Rating, Add	940.06	
40 05 19 00-0074	EA	6"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,865.37	449.26
			For Class 52 Rating, Deduct	-350.31	
			For Class 54 Rating, Add	485.87	
			For Class 55 Rating, Add	726.52	
			For Class 56 Rating, Add	963.99	
40 05 19 00-0075	EA	6"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,952.35	453.66
			For Class 52 Rating, Deduct	-359.15	
			For Class 54 Rating, Add	498.00	
			For Class 55 Rating, Add	744.59	
			For Class 56 Rating, Add	987.92	
40 05 19 00-0076	EA	6"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,039.33	458.07
			For Class 52 Rating, Deduct	-367.98	
			For Class 54 Rating, Add	510.12	
			For Class 55 Rating, Add	762.66	
			For Class 56 Rating, Add	1,011.85	
40 05 19 00-0077	EA	6"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,126.31	462.47
			For Class 52 Rating, Deduct	-376.82	
			For Class 54 Rating, Add	522.25	
			For Class 55 Rating, Add	780.73	
			For Class 56 Rating, Add	1,035.78	
40 05 19 00-0078	EA	6"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,213.29	466.87
			For Class 52 Rating, Deduct	-385.65	
			For Class 54 Rating, Add	534.38	
			For Class 55 Rating, Add	798.80	
			For Class 56 Rating, Add	1,059.71	
40 05 19 00-0079	EA	6"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,300.27	471.27
			For Class 52 Rating, Deduct	-394.48	
			For Class 54 Rating, Add	546.50	
			For Class 55 Rating, Add	816.86	
			For Class 56 Rating, Add	1,083.64	
40 05 19 00-0080	EA	6"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,387.25	475.68
			For Class 52 Rating, Deduct	-403.32	
			For Class 54 Rating, Add	558.63	
			For Class 55 Rating, Add	834.93	
			For Class 56 Rating, Add	1,107.57	
40 05 19 00-0081	EA	6"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,474.23	480.08
			For Class 52 Rating, Deduct	-412.15	
			For Class 54 Rating, Add	570.75	
			For Class 55 Rating, Add	853.00	
			For Class 56 Rating, Add	1,131.50	
40 05 19 00-0082	EA	6"	Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,561.21	484.49
			For Class 52 Rating, Deduct	-420.99	
			For Class 54 Rating, Add	582.88	
			For Class 55 Rating, Add	871.07	
			For Class 56 Rating, Add	1,155.43	
40 05 19 00-0083			8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0084	EA	8"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,755.82	405.21
			For Class 52 Rating, Deduct	-125.61	
			For Class 54 Rating, Add	178.65	
			For Class 55 Rating, Add	269.37	
			For Class 56 Rating, Add	358.95	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA		8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,872.91	409.61
			For Class 52 Rating, Deduct	-137.75	
			For Class 54 Rating, Add	195.29	
			For Class 55 Rating, Add	294.16	
			For Class 56 Rating, Add	391.77	
40 05 19 00-0086	EA		8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,990.00	414.02
			For Class 52 Rating, Deduct	-149.90	
			For Class 54 Rating, Add	211.93	
			For Class 55 Rating, Add	318.94	
			For Class 56 Rating, Add	424.58	
40 05 19 00-0087	EA		8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,107.12	418.42
			For Class 52 Rating, Deduct	-162.05	
			For Class 54 Rating, Add	228.58	
			For Class 55 Rating, Add	343.73	
			For Class 56 Rating, Add	457.40	
40 05 19 00-0088	EA		8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,224.21	422.83
			For Class 52 Rating, Deduct	-174.19	
			For Class 54 Rating, Add	245.22	
			For Class 55 Rating, Add	368.51	
			For Class 56 Rating, Add	490.21	
40 05 19 00-0089	EA		8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,341.30	427.23
			For Class 52 Rating, Deduct	-186.34	
			For Class 54 Rating, Add	261.86	
			For Class 55 Rating, Add	393.29	
			For Class 56 Rating, Add	523.03	
40 05 19 00-0090	EA		8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,458.40	431.64
			For Class 52 Rating, Deduct	-198.48	
			For Class 54 Rating, Add	278.51	
			For Class 55 Rating, Add	418.08	
			For Class 56 Rating, Add	555.84	
40 05 19 00-0091	EA		8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,575.49	436.04
			For Class 52 Rating, Deduct	-210.63	
			For Class 54 Rating, Add	295.15	
			For Class 55 Rating, Add	442.86	
			For Class 56 Rating, Add	588.66	
40 05 19 00-0092	EA		8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,692.59	440.45
			For Class 52 Rating, Deduct	-222.78	
			For Class 54 Rating, Add	311.80	
			For Class 55 Rating, Add	467.65	
			For Class 56 Rating, Add	621.47	
40 05 19 00-0093	EA		8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,809.68	444.85
			For Class 52 Rating, Deduct	-234.92	
			For Class 54 Rating, Add	328.44	
			For Class 55 Rating, Add	492.43	
			For Class 56 Rating, Add	654.29	
40 05 19 00-0094	EA		8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,926.78	449.26
			For Class 52 Rating, Deduct	-247.07	
			For Class 54 Rating, Add	345.08	
			For Class 55 Rating, Add	517.21	
			For Class 56 Rating, Add	687.10	
40 05 19 00-0095	EA		8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,043.87	453.66
			For Class 52 Rating, Deduct	-259.22	
			For Class 54 Rating, Add	361.72	
			For Class 55 Rating, Add	542.00	
			For Class 56 Rating, Add	719.92	
40 05 19 00-0096	EA		8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,160.97	458.07
			For Class 52 Rating, Deduct	-271.36	
			For Class 54 Rating, Add	378.37	
			For Class 55 Rating, Add	566.78	
			For Class 56 Rating, Add	752.73	
40 05 19 00-0097	EA		8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,278.07	462.47
			For Class 52 Rating, Deduct	-283.51	
			For Class 54 Rating, Add	395.01	
			For Class 55 Rating, Add	591.57	
			For Class 56 Rating, Add	785.55	
40 05 19 00-0098	EA		8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,395.16	466.87
			For Class 52 Rating, Deduct	-295.66	
			For Class 54 Rating, Add	411.66	
			For Class 55 Rating, Add	616.35	
			For Class 56 Rating, Add	818.36	
40 05 19 00-0099	EA		8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,512.25	471.27
			For Class 52 Rating, Deduct	-307.80	
			For Class 54 Rating, Add	428.30	
			For Class 55 Rating, Add	641.14	
			For Class 56 Rating, Add	851.17	
40 05 19 00-0100	EA		8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,629.35	475.68
			For Class 52 Rating, Deduct	-319.95	
			For Class 54 Rating, Add	444.94	
			For Class 55 Rating, Add	665.92	
			For Class 56 Rating, Add	863.99	
40 05 19 00-0101	EA		8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,746.45	480.08
			For Class 52 Rating, Deduct	-332.10	
			For Class 54 Rating, Add	461.59	
			For Class 55 Rating, Add	690.71	
			For Class 56 Rating, Add	916.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102	EA		8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.54	484.49
			For Class 52 Rating, Deduct	-344.24	
			For Class 54 Rating, Add	478.23	
			For Class 55 Rating, Add	715.49	
			For Class 56 Rating, Add	949.62	
40 05 19 00-0103	EA		8" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,980.63	488.89
			For Class 52 Rating, Deduct	-356.39	
			For Class 54 Rating, Add	494.87	
			For Class 55 Rating, Add	740.27	
			For Class 56 Rating, Add	982.43	
40 05 19 00-0104	EA		8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,097.75	493.30
			For Class 52 Rating, Deduct	-368.54	
			For Class 54 Rating, Add	511.52	
			For Class 55 Rating, Add	765.06	
			For Class 56 Rating, Add	1,015.25	
40 05 19 00-0105	EA		8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,214.84	497.70
			For Class 52 Rating, Deduct	-380.68	
			For Class 54 Rating, Add	528.16	
			For Class 55 Rating, Add	789.84	
			For Class 56 Rating, Add	1,048.07	
40 05 19 00-0106	EA		8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,331.93	502.11
			For Class 52 Rating, Deduct	-392.83	
			For Class 54 Rating, Add	544.80	
			For Class 55 Rating, Add	814.63	
			For Class 56 Rating, Add	1,080.88	
40 05 19 00-0107	EA		8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,449.02	506.51
			For Class 52 Rating, Deduct	-404.97	
			For Class 54 Rating, Add	561.45	
			For Class 55 Rating, Add	839.41	
			For Class 56 Rating, Add	1,113.69	
40 05 19 00-0108	EA		8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,566.13	510.92
			For Class 52 Rating, Deduct	-417.12	
			For Class 54 Rating, Add	578.09	
			For Class 55 Rating, Add	864.20	
			For Class 56 Rating, Add	1,146.51	
40 05 19 00-0109	EA		8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,683.22	515.32
			For Class 52 Rating, Deduct	-429.27	
			For Class 54 Rating, Add	594.73	
			For Class 55 Rating, Add	888.98	
			For Class 56 Rating, Add	1,179.33	
40 05 19 00-0110	EA		8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,800.31	519.73
			For Class 52 Rating, Deduct	-441.41	
			For Class 54 Rating, Add	611.38	
			For Class 55 Rating, Add	913.76	
			For Class 56 Rating, Add	1,212.14	
40 05 19 00-0111	EA		8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,917.40	524.13
			For Class 52 Rating, Deduct	-453.56	
			For Class 54 Rating, Add	628.02	
			For Class 55 Rating, Add	938.55	
			For Class 56 Rating, Add	1,244.95	
40 05 19 00-0112	EA		8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,034.51	528.54
			For Class 52 Rating, Deduct	-465.71	
			For Class 54 Rating, Add	644.66	
			For Class 55 Rating, Add	963.33	
			For Class 56 Rating, Add	1,277.77	
40 05 19 00-0113	EA		8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,151.60	532.94
			For Class 52 Rating, Deduct	-477.85	
			For Class 54 Rating, Add	661.31	
			For Class 55 Rating, Add	988.12	
			For Class 56 Rating, Add	1,310.58	
40 05 19 00-0114	EA		8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,268.69	537.34
			For Class 52 Rating, Deduct	-490.00	
			For Class 54 Rating, Add	677.95	
			For Class 55 Rating, Add	1,012.90	
			For Class 56 Rating, Add	1,343.40	
40 05 19 00-0115	EA		8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,385.79	541.74
			For Class 52 Rating, Deduct	-502.15	
			For Class 54 Rating, Add	694.59	
			For Class 55 Rating, Add	1,037.69	
			For Class 56 Rating, Add	1,376.21	
40 05 19 00-0116	EA		8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,502.88	546.15
			For Class 52 Rating, Deduct	-514.29	
			For Class 54 Rating, Add	711.24	
			For Class 55 Rating, Add	1,062.47	
			For Class 56 Rating, Add	1,409.03	
40 05 19 00-0117	EA		8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,619.98	550.55
			For Class 52 Rating, Deduct	-526.44	
			For Class 54 Rating, Add	727.88	
			For Class 55 Rating, Add	1,087.26	
			For Class 56 Rating, Add	1,441.84	
40 05 19 00-0118	EA		8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,737.07	554.96
			For Class 52 Rating, Deduct	-538.59	
			For Class 54 Rating, Add	744.52	
			For Class 55 Rating, Add	1,112.04	
			For Class 56 Rating, Add	1,474.66	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA		8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,854.17	559.36
			For Class 52 Rating, Deduct	-550.73	
			For Class 54 Rating, Add	761.17	
			For Class 55 Rating, Add	1,136.82	
			For Class 56 Rating, Add	1,507.47	
40 05 19 00-0120	EA		8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,971.26	563.77
			For Class 52 Rating, Deduct	-562.88	
			For Class 54 Rating, Add	777.81	
			For Class 55 Rating, Add	1,161.61	
			For Class 56 Rating, Add	1,540.29	
40 05 19 00-0121	EA		8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,088.37	568.17
			For Class 52 Rating, Deduct	-575.03	
			For Class 54 Rating, Add	794.46	
			For Class 55 Rating, Add	1,186.39	
			For Class 56 Rating, Add	1,573.10	
40 05 19 00-0122	EA		8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,205.47	572.58
			For Class 52 Rating, Deduct	-587.17	
			For Class 54 Rating, Add	811.10	
			For Class 55 Rating, Add	1,211.18	
			For Class 56 Rating, Add	1,605.92	
40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe					
			(40 05 19 00-0002)		
40 05 19 00-0124	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,213.04	493.30
			For Class 52 Rating, Deduct	-161.22	
			For Class 54 Rating, Add	228.81	
			For Class 55 Rating, Add	344.77	
			For Class 56 Rating, Add	459.26	
40 05 19 00-0125	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,365.26	497.70
			For Class 52 Rating, Deduct	-177.23	
			For Class 54 Rating, Add	250.72	
			For Class 55 Rating, Add	377.39	
			For Class 56 Rating, Add	502.44	
40 05 19 00-0126	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,517.49	502.11
			For Class 52 Rating, Deduct	-193.24	
			For Class 54 Rating, Add	272.64	
			For Class 55 Rating, Add	410.01	
			For Class 56 Rating, Add	545.62	
40 05 19 00-0127	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,669.72	506.51
			For Class 52 Rating, Deduct	-209.25	
			For Class 54 Rating, Add	294.55	
			For Class 55 Rating, Add	442.63	
			For Class 56 Rating, Add	588.80	
40 05 19 00-0128	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,821.95	510.92
			For Class 52 Rating, Deduct	-225.26	
			For Class 54 Rating, Add	316.46	
			For Class 55 Rating, Add	475.24	
			For Class 56 Rating, Add	631.98	
40 05 19 00-0129	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,974.18	515.32
			For Class 52 Rating, Deduct	-241.27	
			For Class 54 Rating, Add	338.38	
			For Class 55 Rating, Add	507.86	
			For Class 56 Rating, Add	675.16	
40 05 19 00-0130	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,126.41	519.73
			For Class 52 Rating, Deduct	-257.28	
			For Class 54 Rating, Add	360.29	
			For Class 55 Rating, Add	540.48	
			For Class 56 Rating, Add	718.34	
40 05 19 00-0131	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,278.63	524.13
			For Class 52 Rating, Deduct	-273.30	
			For Class 54 Rating, Add	382.20	
			For Class 55 Rating, Add	573.10	
			For Class 56 Rating, Add	761.52	
40 05 19 00-0132	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,430.87	528.54
			For Class 52 Rating, Deduct	-289.31	
			For Class 54 Rating, Add	404.12	
			For Class 55 Rating, Add	605.72	
			For Class 56 Rating, Add	804.70	
40 05 19 00-0133	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,583.10	532.94
			For Class 52 Rating, Deduct	-305.32	
			For Class 54 Rating, Add	426.03	
			For Class 55 Rating, Add	638.34	
			For Class 56 Rating, Add	847.88	
40 05 19 00-0134	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,735.32	537.34
			For Class 52 Rating, Deduct	-321.33	
			For Class 54 Rating, Add	447.95	
			For Class 55 Rating, Add	670.96	
			For Class 56 Rating, Add	891.05	
40 05 19 00-0135	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,887.56	541.74
			For Class 52 Rating, Deduct	-337.34	
			For Class 54 Rating, Add	469.86	
			For Class 55 Rating, Add	703.58	
			For Class 56 Rating, Add	934.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136	EA	10"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,039.79	546.15
			For Class 52 Rating, Deduct	-353.35	
			For Class 54 Rating, Add	491.77	
			For Class 55 Rating, Add	736.20	
			For Class 56 Rating, Add	977.42	
40 05 19 00-0137	EA	10"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,192.01	550.55
			For Class 52 Rating, Deduct	-369.36	
			For Class 54 Rating, Add	513.69	
			For Class 55 Rating, Add	768.82	
			For Class 56 Rating, Add	1,020.59	
40 05 19 00-0138	EA	10"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,344.24	554.96
			For Class 52 Rating, Deduct	-385.37	
			For Class 54 Rating, Add	535.60	
			For Class 55 Rating, Add	801.44	
			For Class 56 Rating, Add	1,063.77	
40 05 19 00-0139	EA	10"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,496.48	559.36
			For Class 52 Rating, Deduct	-401.39	
			For Class 54 Rating, Add	557.51	
			For Class 55 Rating, Add	834.06	
			For Class 56 Rating, Add	1,106.95	
40 05 19 00-0140	EA	10"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,648.71	563.77
			For Class 52 Rating, Deduct	-417.40	
			For Class 54 Rating, Add	579.43	
			For Class 55 Rating, Add	866.68	
			For Class 56 Rating, Add	1,150.13	
40 05 19 00-0141	EA	10"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,800.94	568.17
			For Class 52 Rating, Deduct	-433.41	
			For Class 54 Rating, Add	601.34	
			For Class 55 Rating, Add	899.30	
			For Class 56 Rating, Add	1,193.31	
40 05 19 00-0142	EA	10"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,953.18	572.58
			For Class 52 Rating, Deduct	-449.42	
			For Class 54 Rating, Add	623.26	
			For Class 55 Rating, Add	931.92	
			For Class 56 Rating, Add	1,236.49	
40 05 19 00-0143	EA	10"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,105.41	576.98
			For Class 52 Rating, Deduct	-465.43	
			For Class 54 Rating, Add	645.17	
			For Class 55 Rating, Add	964.54	
			For Class 56 Rating, Add	1,279.67	
40 05 19 00-0144	EA	10"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,257.63	581.39
			For Class 52 Rating, Deduct	-481.44	
			For Class 54 Rating, Add	667.08	
			For Class 55 Rating, Add	997.15	
			For Class 56 Rating, Add	1,322.85	
40 05 19 00-0145	EA	10"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,409.86	585.79
			For Class 52 Rating, Deduct	-497.45	
			For Class 54 Rating, Add	689.00	
			For Class 55 Rating, Add	1,029.77	
			For Class 56 Rating, Add	1,366.03	
40 05 19 00-0146	EA	10"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,562.10	590.20
			For Class 52 Rating, Deduct	-513.46	
			For Class 54 Rating, Add	710.91	
			For Class 55 Rating, Add	1,062.39	
			For Class 56 Rating, Add	1,409.21	
40 05 19 00-0147	EA	10"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,714.32	594.60
			For Class 52 Rating, Deduct	-529.48	
			For Class 54 Rating, Add	732.82	
			For Class 55 Rating, Add	1,095.01	
			For Class 56 Rating, Add	1,452.39	
40 05 19 00-0148	EA	10"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,866.55	599.01
			For Class 52 Rating, Deduct	-545.49	
			For Class 54 Rating, Add	754.74	
			For Class 55 Rating, Add	1,127.63	
			For Class 56 Rating, Add	1,495.57	
40 05 19 00-0149	EA	10"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,018.79	603.41
			For Class 52 Rating, Deduct	-561.50	
			For Class 54 Rating, Add	776.65	
			For Class 55 Rating, Add	1,160.25	
			For Class 56 Rating, Add	1,538.75	
40 05 19 00-0150	EA	10"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,171.01	607.82
			For Class 52 Rating, Deduct	-577.51	
			For Class 54 Rating, Add	798.56	
			For Class 55 Rating, Add	1,192.87	
			For Class 56 Rating, Add	1,581.93	
40 05 19 00-0151	EA	10"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,323.24	612.21
			For Class 52 Rating, Deduct	-593.52	
			For Class 54 Rating, Add	820.48	
			For Class 55 Rating, Add	1,225.49	
			For Class 56 Rating, Add	1,625.11	
40 05 19 00-0152	EA	10"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,475.47	616.62
			For Class 52 Rating, Deduct	-609.53	
			For Class 54 Rating, Add	842.39	
			For Class 55 Rating, Add	1,258.11	
			For Class 56 Rating, Add	1,668.29	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153 EA 10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,627.70	621.02
For Class 52 Rating, Deduct	-625.54	
For Class 54 Rating, Add	864.30	
For Class 55 Rating, Add	1,290.73	
For Class 56 Rating, Add	1,711.47	
40 05 19 00-0154 EA 10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,779.93	625.43
For Class 52 Rating, Deduct	-641.55	
For Class 54 Rating, Add	886.22	
For Class 55 Rating, Add	1,323.35	
For Class 56 Rating, Add	1,754.65	
40 05 19 00-0155 EA 10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,929.65	629.83
For Class 52 Rating, Deduct	-657.29	
For Class 54 Rating, Add	907.76	
For Class 55 Rating, Add	1,355.41	
For Class 56 Rating, Add	1,797.09	
40 05 19 00-0156 EA 10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,084.39	634.24
For Class 52 Rating, Deduct	-673.58	
For Class 54 Rating, Add	930.04	
For Class 55 Rating, Add	1,388.59	
For Class 56 Rating, Add	1,841.00	
40 05 19 00-0157 EA 10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,236.62	638.64
For Class 52 Rating, Deduct	-689.59	
For Class 54 Rating, Add	951.96	
For Class 55 Rating, Add	1,421.21	
For Class 56 Rating, Add	1,884.18	
40 05 19 00-0158 EA 10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,388.86	643.05
For Class 52 Rating, Deduct	-705.60	
For Class 54 Rating, Add	973.87	
For Class 55 Rating, Add	1,453.83	
For Class 56 Rating, Add	1,927.36	
40 05 19 00-0159 EA 10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,541.08	647.45
For Class 52 Rating, Deduct	-721.61	
For Class 54 Rating, Add	995.79	
For Class 55 Rating, Add	1,486.44	
For Class 56 Rating, Add	1,970.54	
40 05 19 00-0160 EA 10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,693.32	651.86
For Class 52 Rating, Deduct	-737.62	
For Class 54 Rating, Add	1,017.70	
For Class 55 Rating, Add	1,519.06	
For Class 56 Rating, Add	2,013.72	
40 05 19 00-0161 EA 10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,845.55	656.26
For Class 52 Rating, Deduct	-753.63	
For Class 54 Rating, Add	1,039.61	
For Class 55 Rating, Add	1,551.68	
For Class 56 Rating, Add	2,056.90	
40 05 19 00-0162 EA 10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,997.77	660.67
For Class 52 Rating, Deduct	-769.64	
For Class 54 Rating, Add	1,061.53	
For Class 55 Rating, Add	1,584.30	
For Class 56 Rating, Add	2,100.08	
40 05 19 00-0163 12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0164 EA 12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,896.78	616.62
For Class 52 Rating, Deduct	-215.88	
For Class 54 Rating, Add	305.59	
For Class 55 Rating, Add	460.06	
For Class 56 Rating, Add	612.57	
40 05 19 00-0165 EA 12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,086.66	621.02
For Class 52 Rating, Deduct	-236.03	
For Class 54 Rating, Add	333.15	
For Class 55 Rating, Add	501.08	
For Class 56 Rating, Add	666.86	
40 05 19 00-0166 EA 12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,276.53	625.43
For Class 52 Rating, Deduct	-256.18	
For Class 54 Rating, Add	360.71	
For Class 55 Rating, Add	542.09	
For Class 56 Rating, Add	721.14	
40 05 19 00-0167 EA 12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,466.40	629.83
For Class 52 Rating, Deduct	-276.33	
For Class 54 Rating, Add	388.27	
For Class 55 Rating, Add	583.10	
For Class 56 Rating, Add	775.43	
40 05 19 00-0168 EA 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,656.28	634.24
For Class 52 Rating, Deduct	-296.48	
For Class 54 Rating, Add	415.83	
For Class 55 Rating, Add	624.12	
For Class 56 Rating, Add	829.71	
40 05 19 00-0169 EA 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,846.15	638.64
For Class 52 Rating, Deduct	-316.64	
For Class 54 Rating, Add	443.39	
For Class 55 Rating, Add	665.13	
For Class 56 Rating, Add	884.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170	EA	12"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,036.03	643.05
			For Class 52 Rating, Deduct	-336.79	
			For Class 54 Rating, Add	470.95	
			For Class 55 Rating, Add	706.15	
			For Class 56 Rating, Add	938.28	
40 05 19 00-0171	EA	12"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,225.90	647.45
			For Class 52 Rating, Deduct	-356.94	
			For Class 54 Rating, Add	498.51	
			For Class 55 Rating, Add	747.16	
			For Class 56 Rating, Add	992.56	
40 05 19 00-0172	EA	12"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,415.78	651.86
			For Class 52 Rating, Deduct	-377.09	
			For Class 54 Rating, Add	526.07	
			For Class 55 Rating, Add	788.17	
			For Class 56 Rating, Add	1,046.85	
40 05 19 00-0173	EA	12"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,605.65	656.26
			For Class 52 Rating, Deduct	-397.24	
			For Class 54 Rating, Add	553.63	
			For Class 55 Rating, Add	829.19	
			For Class 56 Rating, Add	1,101.13	
40 05 19 00-0174	EA	12"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,795.53	660.67
			For Class 52 Rating, Deduct	-417.40	
			For Class 54 Rating, Add	581.19	
			For Class 55 Rating, Add	870.20	
			For Class 56 Rating, Add	1,155.42	
40 05 19 00-0175	EA	12"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,985.40	665.07
			For Class 52 Rating, Deduct	-437.55	
			For Class 54 Rating, Add	608.75	
			For Class 55 Rating, Add	911.22	
			For Class 56 Rating, Add	1,209.70	
40 05 19 00-0176	EA	12"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,175.28	669.48
			For Class 52 Rating, Deduct	-457.70	
			For Class 54 Rating, Add	636.31	
			For Class 55 Rating, Add	952.23	
			For Class 56 Rating, Add	1,263.99	
40 05 19 00-0177	EA	12"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,365.15	673.88
			For Class 52 Rating, Deduct	-477.85	
			For Class 54 Rating, Add	663.87	
			For Class 55 Rating, Add	993.24	
			For Class 56 Rating, Add	1,318.27	
40 05 19 00-0178	EA	12"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,555.02	678.29
			For Class 52 Rating, Deduct	-498.01	
			For Class 54 Rating, Add	691.43	
			For Class 55 Rating, Add	1,034.26	
			For Class 56 Rating, Add	1,372.56	
40 05 19 00-0179	EA	12"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,744.90	682.68
			For Class 52 Rating, Deduct	-518.16	
			For Class 54 Rating, Add	718.99	
			For Class 55 Rating, Add	1,075.27	
			For Class 56 Rating, Add	1,426.84	
40 05 19 00-0180	EA	12"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,934.77	687.09
			For Class 52 Rating, Deduct	-538.31	
			For Class 54 Rating, Add	746.55	
			For Class 55 Rating, Add	1,116.28	
			For Class 56 Rating, Add	1,481.13	
40 05 19 00-0181	EA	12"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,124.64	691.49
			For Class 52 Rating, Deduct	-558.46	
			For Class 54 Rating, Add	774.11	
			For Class 55 Rating, Add	1,157.30	
			For Class 56 Rating, Add	1,535.41	
40 05 19 00-0182	EA	12"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,314.51	695.90
			For Class 52 Rating, Deduct	-578.61	
			For Class 54 Rating, Add	801.67	
			For Class 55 Rating, Add	1,198.31	
			For Class 56 Rating, Add	1,589.69	
40 05 19 00-0183	EA	12"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,504.39	700.30
			For Class 52 Rating, Deduct	-598.77	
			For Class 54 Rating, Add	829.23	
			For Class 55 Rating, Add	1,239.33	
			For Class 56 Rating, Add	1,643.98	
40 05 19 00-0184	EA	12"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,684.26	704.71
			For Class 52 Rating, Deduct	-618.92	
			For Class 54 Rating, Add	856.79	
			For Class 55 Rating, Add	1,280.34	
			For Class 56 Rating, Add	1,698.26	
40 05 19 00-0185	EA	12"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,884.13	709.11
			For Class 52 Rating, Deduct	-639.07	
			For Class 54 Rating, Add	884.35	
			For Class 55 Rating, Add	1,321.35	
			For Class 56 Rating, Add	1,752.55	
40 05 19 00-0186	EA	12"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,074.01	713.52
			For Class 52 Rating, Deduct	-659.22	
			For Class 54 Rating, Add	911.91	
			For Class 55 Rating, Add	1,362.37	
			For Class 56 Rating, Add	1,806.83	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-0187	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,263.90		717.92
		For Class 52 Rating, Deduct	-679.37		
		For Class 54 Rating, Add	939.47		
		For Class 55 Rating, Add	1,403.38		
		For Class 56 Rating, Add	1,861.12		
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,453.77		722.33
		For Class 52 Rating, Deduct	-699.53		
		For Class 54 Rating, Add	967.03		
		For Class 55 Rating, Add	1,444.40		
		For Class 56 Rating, Add	1,915.40		
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,643.64		726.73
		For Class 52 Rating, Deduct	-719.68		
		For Class 54 Rating, Add	994.59		
		For Class 55 Rating, Add	1,485.41		
		For Class 56 Rating, Add	1,969.69		
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,833.52		731.14
		For Class 52 Rating, Deduct	-739.83		
		For Class 54 Rating, Add	1,022.15		
		For Class 55 Rating, Add	1,526.42		
		For Class 56 Rating, Add	2,023.97		
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,023.39		735.54
		For Class 52 Rating, Deduct	-759.98		
		For Class 54 Rating, Add	1,049.71		
		For Class 55 Rating, Add	1,567.44		
		For Class 56 Rating, Add	2,078.25		
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,213.26		739.95
		For Class 52 Rating, Deduct	-780.13		
		For Class 54 Rating, Add	1,077.27		
		For Class 55 Rating, Add	1,608.45		
		For Class 56 Rating, Add	2,132.54		
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,403.14		744.35
		For Class 52 Rating, Deduct	-800.29		
		For Class 54 Rating, Add	1,104.83		
		For Class 55 Rating, Add	1,649.47		
		For Class 56 Rating, Add	2,186.82		
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,593.01		748.76
		For Class 52 Rating, Deduct	-820.44		
		For Class 54 Rating, Add	1,132.39		
		For Class 55 Rating, Add	1,690.48		
		For Class 56 Rating, Add	2,241.11		
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,782.88		753.15
		For Class 52 Rating, Deduct	-840.59		
		For Class 54 Rating, Add	1,159.95		
		For Class 55 Rating, Add	1,731.49		
		For Class 56 Rating, Add	2,295.39		
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,972.75		757.56
		For Class 52 Rating, Deduct	-860.74		
		For Class 54 Rating, Add	1,187.51		
		For Class 55 Rating, Add	1,772.51		
		For Class 56 Rating, Add	2,349.68		
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,162.63		761.96
		For Class 52 Rating, Deduct	-880.89		
		For Class 54 Rating, Add	1,215.07		
		For Class 55 Rating, Add	1,813.52		
		For Class 56 Rating, Add	2,403.96		
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,352.50		766.37
		For Class 52 Rating, Deduct	-901.05		
		For Class 54 Rating, Add	1,242.63		
		For Class 55 Rating, Add	1,854.53		
		For Class 56 Rating, Add	2,458.24		
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,542.38		770.78
		For Class 52 Rating, Deduct	-921.20		
		For Class 54 Rating, Add	1,270.20		
		For Class 55 Rating, Add	1,895.55		
		For Class 56 Rating, Add	2,512.53		
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,732.26		775.18
		For Class 52 Rating, Deduct	-941.35		
		For Class 54 Rating, Add	1,297.76		
		For Class 55 Rating, Add	1,936.56		
		For Class 56 Rating, Add	2,566.82		
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,922.13		779.59
		For Class 52 Rating, Deduct	-961.50		
		For Class 54 Rating, Add	1,325.32		
		For Class 55 Rating, Add	1,977.58		
		For Class 56 Rating, Add	2,621.10		
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,112.00		783.99
		For Class 52 Rating, Deduct	-981.66		
		For Class 54 Rating, Add	1,352.88		
		For Class 55 Rating, Add	2,018.59		
		For Class 56 Rating, Add	2,675.38		

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,
Ductile Iron Pipe (40 05 19 00-0002)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204	EA	14"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,869.14	739.95
			For Class 52 Rating, Deduct	-302.28	
			For Class 54 Rating, Add	425.66	
			For Class 55 Rating, Add	639.71	
			For Class 56 Rating, Add	851.02	
40 05 19 00-0205	EA	14"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,099.18	744.35
			For Class 52 Rating, Deduct	-326.85	
			For Class 54 Rating, Add	459.24	
			For Class 55 Rating, Add	689.68	
			For Class 56 Rating, Add	917.16	
40 05 19 00-0206	EA	14"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,329.20	748.76
			For Class 52 Rating, Deduct	-351.42	
			For Class 54 Rating, Add	492.82	
			For Class 55 Rating, Add	739.65	
			For Class 56 Rating, Add	983.28	
40 05 19 00-0207	EA	14"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,559.23	753.15
			For Class 52 Rating, Deduct	-375.99	
			For Class 54 Rating, Add	526.41	
			For Class 55 Rating, Add	789.62	
			For Class 56 Rating, Add	1,049.42	
40 05 19 00-0208	EA	14"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,789.25	757.56
			For Class 52 Rating, Deduct	-400.56	
			For Class 54 Rating, Add	559.99	
			For Class 55 Rating, Add	839.59	
			For Class 56 Rating, Add	1,115.54	
40 05 19 00-0209	EA	14"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,019.28	761.96
			For Class 52 Rating, Deduct	-425.13	
			For Class 54 Rating, Add	593.57	
			For Class 55 Rating, Add	889.55	
			For Class 56 Rating, Add	1,181.67	
40 05 19 00-0210	EA	14"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,249.31	766.37
			For Class 52 Rating, Deduct	-449.70	
			For Class 54 Rating, Add	627.16	
			For Class 55 Rating, Add	939.52	
			For Class 56 Rating, Add	1,247.80	
40 05 19 00-0211	EA	14"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,479.33	770.78
			For Class 52 Rating, Deduct	-474.26	
			For Class 54 Rating, Add	660.74	
			For Class 55 Rating, Add	989.49	
			For Class 56 Rating, Add	1,313.93	
40 05 19 00-0212	EA	14"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,709.37	775.18
			For Class 52 Rating, Deduct	-498.83	
			For Class 54 Rating, Add	694.32	
			For Class 55 Rating, Add	1,039.46	
			For Class 56 Rating, Add	1,380.06	
40 05 19 00-0213	EA	14"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,939.39	779.59
			For Class 52 Rating, Deduct	-523.40	
			For Class 54 Rating, Add	727.90	
			For Class 55 Rating, Add	1,089.43	
			For Class 56 Rating, Add	1,446.19	
40 05 19 00-0214	EA	14"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,169.42	783.99
			For Class 52 Rating, Deduct	-547.97	
			For Class 54 Rating, Add	761.49	
			For Class 55 Rating, Add	1,139.40	
			For Class 56 Rating, Add	1,512.32	
40 05 19 00-0215	EA	14"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,399.44	788.40
			For Class 52 Rating, Deduct	-572.54	
			For Class 54 Rating, Add	795.07	
			For Class 55 Rating, Add	1,189.36	
			For Class 56 Rating, Add	1,578.45	
40 05 19 00-0216	EA	14"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,629.48	792.80
			For Class 52 Rating, Deduct	-597.11	
			For Class 54 Rating, Add	828.65	
			For Class 55 Rating, Add	1,239.33	
			For Class 56 Rating, Add	1,644.58	
40 05 19 00-0217	EA	14"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,859.51	797.21
			For Class 52 Rating, Deduct	-621.68	
			For Class 54 Rating, Add	862.24	
			For Class 55 Rating, Add	1,289.30	
			For Class 56 Rating, Add	1,710.71	
40 05 19 00-0218	EA	14"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,089.53	801.61
			For Class 52 Rating, Deduct	-646.25	
			For Class 54 Rating, Add	895.82	
			For Class 55 Rating, Add	1,339.27	
			For Class 56 Rating, Add	1,776.84	
40 05 19 00-0219	EA	14"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,319.57	806.02
			For Class 52 Rating, Deduct	-670.82	
			For Class 54 Rating, Add	929.40	
			For Class 55 Rating, Add	1,389.24	
			For Class 56 Rating, Add	1,842.97	
40 05 19 00-0220	EA	14"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,549.59	810.42
			For Class 52 Rating, Deduct	-695.38	
			For Class 54 Rating, Add	962.99	
			For Class 55 Rating, Add	1,439.20	
			For Class 56 Rating, Add	1,909.10	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
40 05 19 00-0221	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,779.62		814.83
		For Class 52 Rating, Deduct	-719.95		
		For Class 54 Rating, Add	996.57		
		For Class 55 Rating, Add	1,489.17		
		For Class 56 Rating, Add	1,975.23		
40 05 19 00-0222	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,009.64		819.23
		For Class 52 Rating, Deduct	-744.52		
		For Class 54 Rating, Add	1,030.15		
		For Class 55 Rating, Add	1,539.14		
		For Class 56 Rating, Add	2,041.36		
40 05 19 00-0223	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,239.68		823.64
		For Class 52 Rating, Deduct	-769.09		
		For Class 54 Rating, Add	1,063.74		
		For Class 55 Rating, Add	1,589.11		
		For Class 56 Rating, Add	2,107.49		
40 05 19 00-0224	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,469.70		828.03
		For Class 52 Rating, Deduct	-793.66		
		For Class 54 Rating, Add	1,097.32		
		For Class 55 Rating, Add	1,639.08		
		For Class 56 Rating, Add	2,173.62		
40 05 19 00-0225	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,699.72		832.44
		For Class 52 Rating, Deduct	-818.23		
		For Class 54 Rating, Add	1,130.90		
		For Class 55 Rating, Add	1,689.04		
		For Class 56 Rating, Add	2,239.75		
40 05 19 00-0226	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,929.75		836.84
		For Class 52 Rating, Deduct	-842.80		
		For Class 54 Rating, Add	1,164.49		
		For Class 55 Rating, Add	1,739.01		
		For Class 56 Rating, Add	2,305.88		
40 05 19 00-0227	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,159.78		841.25
		For Class 52 Rating, Deduct	-867.37		
		For Class 54 Rating, Add	1,198.07		
		For Class 55 Rating, Add	1,788.98		
		For Class 56 Rating, Add	2,372.01		
40 05 19 00-0228	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,389.81		845.65
		For Class 52 Rating, Deduct	-891.94		
		For Class 54 Rating, Add	1,231.65		
		For Class 55 Rating, Add	1,838.95		
		For Class 56 Rating, Add	2,438.14		
40 05 19 00-0229	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,619.83		850.06
		For Class 52 Rating, Deduct	-916.51		
		For Class 54 Rating, Add	1,265.24		
		For Class 55 Rating, Add	1,888.92		
		For Class 56 Rating, Add	2,504.27		
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,849.87		854.46
		For Class 52 Rating, Deduct	-941.08		
		For Class 54 Rating, Add	1,298.82		
		For Class 55 Rating, Add	1,938.89		
		For Class 56 Rating, Add	2,570.40		
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,079.89		858.87
		For Class 52 Rating, Deduct	-965.64		
		For Class 54 Rating, Add	1,332.40		
		For Class 55 Rating, Add	1,988.85		
		For Class 56 Rating, Add	2,636.53		
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,309.92		863.27
		For Class 52 Rating, Deduct	-990.21		
		For Class 54 Rating, Add	1,365.99		
		For Class 55 Rating, Add	2,038.82		
		For Class 56 Rating, Add	2,702.66		
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,539.94		867.68
		For Class 52 Rating, Deduct	-1,014.78		
		For Class 54 Rating, Add	1,399.57		
		For Class 55 Rating, Add	2,088.79		
		For Class 56 Rating, Add	2,768.79		
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,769.98		872.08
		For Class 52 Rating, Deduct	-1,039.35		
		For Class 54 Rating, Add	1,433.15		
		For Class 55 Rating, Add	2,138.76		
		For Class 56 Rating, Add	2,834.92		
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,000.01		876.49
		For Class 52 Rating, Deduct	-1,063.92		
		For Class 54 Rating, Add	1,466.74		
		For Class 55 Rating, Add	2,188.73		
		For Class 56 Rating, Add	2,901.05		
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,230.03		880.89
		For Class 52 Rating, Deduct	-1,088.49		
		For Class 54 Rating, Add	1,500.32		
		For Class 55 Rating, Add	2,238.70		
		For Class 56 Rating, Add	2,967.18		
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,460.07		885.30
		For Class 52 Rating, Deduct	-1,113.06		
		For Class 54 Rating, Add	1,533.90		
		For Class 55 Rating, Add	2,288.66		
		For Class 56 Rating, Add	3,033.31		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238	EA		14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,690.09	889.70
			For Class 52 Rating, Deduct	-1,137.63	
			For Class 54 Rating, Add	1,567.49	
			For Class 55 Rating, Add	2,338.63	
			For Class 56 Rating, Add	3,099.44	
40 05 19 00-0239	EA		14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,920.12	894.11
			For Class 52 Rating, Deduct	-1,162.20	
			For Class 54 Rating, Add	1,601.07	
			For Class 55 Rating, Add	2,388.60	
			For Class 56 Rating, Add	3,165.57	
40 05 19 00-0240	EA		14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,150.14	898.50
			For Class 52 Rating, Deduct	-1,186.76	
			For Class 54 Rating, Add	1,634.65	
			For Class 55 Rating, Add	2,438.57	
			For Class 56 Rating, Add	3,231.70	
40 05 19 00-0241	EA		14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,380.17	902.91
			For Class 52 Rating, Deduct	-1,211.33	
			For Class 54 Rating, Add	1,668.23	
			For Class 55 Rating, Add	2,488.54	
			For Class 56 Rating, Add	3,297.83	
40 05 19 00-0242			16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0243	EA		16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,538.75	845.65
			For Class 52 Rating, Deduct	-358.32	
			For Class 54 Rating, Add	503.99	
			For Class 55 Rating, Add	757.16	
			For Class 56 Rating, Add	1,007.08	
40 05 19 00-0244	EA		16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,806.42	850.06
			For Class 52 Rating, Deduct	-387.03	
			For Class 54 Rating, Add	543.22	
			For Class 55 Rating, Add	815.53	
			For Class 56 Rating, Add	1,084.31	
40 05 19 00-0245	EA		16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,074.10	854.46
			For Class 52 Rating, Deduct	-415.74	
			For Class 54 Rating, Add	582.45	
			For Class 55 Rating, Add	873.89	
			For Class 56 Rating, Add	1,161.55	
40 05 19 00-0246	EA		16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,341.77	858.87
			For Class 52 Rating, Deduct	-444.45	
			For Class 54 Rating, Add	621.68	
			For Class 55 Rating, Add	932.25	
			For Class 56 Rating, Add	1,238.78	
40 05 19 00-0247	EA		16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,609.43	863.27
			For Class 52 Rating, Deduct	-473.16	
			For Class 54 Rating, Add	660.91	
			For Class 55 Rating, Add	990.61	
			For Class 56 Rating, Add	1,316.02	
40 05 19 00-0248	EA		16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,877.10	867.68
			For Class 52 Rating, Deduct	-501.87	
			For Class 54 Rating, Add	700.14	
			For Class 55 Rating, Add	1,048.98	
			For Class 56 Rating, Add	1,393.25	
40 05 19 00-0249	EA		16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,144.79	872.08
			For Class 52 Rating, Deduct	-530.58	
			For Class 54 Rating, Add	739.37	
			For Class 55 Rating, Add	1,107.34	
			For Class 56 Rating, Add	1,470.49	
40 05 19 00-0250	EA		16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,412.46	876.49
			For Class 52 Rating, Deduct	-559.29	
			For Class 54 Rating, Add	778.60	
			For Class 55 Rating, Add	1,165.70	
			For Class 56 Rating, Add	1,547.72	
40 05 19 00-0251	EA		16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,680.13	880.89
			For Class 52 Rating, Deduct	-588.00	
			For Class 54 Rating, Add	817.83	
			For Class 55 Rating, Add	1,224.07	
			For Class 56 Rating, Add	1,624.96	
40 05 19 00-0252	EA		16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,947.81	885.30
			For Class 52 Rating, Deduct	-616.71	
			For Class 54 Rating, Add	857.06	
			For Class 55 Rating, Add	1,282.43	
			For Class 56 Rating, Add	1,702.19	
40 05 19 00-0253	EA		16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,215.47	889.70
			For Class 52 Rating, Deduct	-645.42	
			For Class 54 Rating, Add	896.29	
			For Class 55 Rating, Add	1,340.79	
			For Class 56 Rating, Add	1,779.42	
40 05 19 00-0254	EA		16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,483.14	894.11
			For Class 52 Rating, Deduct	-674.13	
			For Class 54 Rating, Add	935.52	
			For Class 55 Rating, Add	1,399.15	
			For Class 56 Rating, Add	1,856.66	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA		16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,750.81	898.50
			For Class 52 Rating, Deduct	-702.84	
			For Class 54 Rating, Add	974.75	
			For Class 55 Rating, Add	1,457.52	
			For Class 56 Rating, Add	1,933.89	
40 05 19 00-0256	EA		16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,018.49	902.91
			For Class 52 Rating, Deduct	-731.55	
			For Class 54 Rating, Add	1,013.98	
			For Class 55 Rating, Add	1,515.88	
			For Class 56 Rating, Add	2,011.13	
40 05 19 00-0257	EA		16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,286.16	907.31
			For Class 52 Rating, Deduct	-760.26	
			For Class 54 Rating, Add	1,053.21	
			For Class 55 Rating, Add	1,574.24	
			For Class 56 Rating, Add	2,088.36	
40 05 19 00-0258	EA		16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,553.83	911.72
			For Class 52 Rating, Deduct	-788.97	
			For Class 54 Rating, Add	1,092.44	
			For Class 55 Rating, Add	1,632.61	
			For Class 56 Rating, Add	2,165.60	
40 05 19 00-0259	EA		16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,821.51	916.12
			For Class 52 Rating, Deduct	-817.68	
			For Class 54 Rating, Add	1,131.67	
			For Class 55 Rating, Add	1,690.97	
			For Class 56 Rating, Add	2,242.84	
40 05 19 00-0260	EA		16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,089.17	920.53
			For Class 52 Rating, Deduct	-846.39	
			For Class 54 Rating, Add	1,170.90	
			For Class 55 Rating, Add	1,749.33	
			For Class 56 Rating, Add	2,320.07	
40 05 19 00-0261	EA		16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,356.84	924.93
			For Class 52 Rating, Deduct	-875.10	
			For Class 54 Rating, Add	1,210.13	
			For Class 55 Rating, Add	1,807.69	
			For Class 56 Rating, Add	2,397.30	
40 05 19 00-0262	EA		16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,624.51	929.34
			For Class 52 Rating, Deduct	-903.81	
			For Class 54 Rating, Add	1,249.36	
			For Class 55 Rating, Add	1,866.06	
			For Class 56 Rating, Add	2,474.54	
40 05 19 00-0263	EA		16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,892.19	933.74
			For Class 52 Rating, Deduct	-932.52	
			For Class 54 Rating, Add	1,288.59	
			For Class 55 Rating, Add	1,924.42	
			For Class 56 Rating, Add	2,551.77	
40 05 19 00-0264	EA		16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,159.86	938.15
			For Class 52 Rating, Deduct	-961.23	
			For Class 54 Rating, Add	1,327.82	
			For Class 55 Rating, Add	1,982.78	
			For Class 56 Rating, Add	2,629.01	
40 05 19 00-0265	EA		16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,427.53	942.55
			For Class 52 Rating, Deduct	-989.94	
			For Class 54 Rating, Add	1,367.05	
			For Class 55 Rating, Add	2,041.15	
			For Class 56 Rating, Add	2,706.24	
40 05 19 00-0266	EA		16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,695.21	946.96
			For Class 52 Rating, Deduct	-1,018.65	
			For Class 54 Rating, Add	1,406.28	
			For Class 55 Rating, Add	2,099.51	
			For Class 56 Rating, Add	2,783.48	
40 05 19 00-0267	EA		16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,962.88	951.36
			For Class 52 Rating, Deduct	-1,047.36	
			For Class 54 Rating, Add	1,445.51	
			For Class 55 Rating, Add	2,157.87	
			For Class 56 Rating, Add	2,860.71	
40 05 19 00-0268	EA		16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,230.55	955.77
			For Class 52 Rating, Deduct	-1,076.07	
			For Class 54 Rating, Add	1,484.74	
			For Class 55 Rating, Add	2,216.23	
			For Class 56 Rating, Add	2,937.95	
40 05 19 00-0269	EA		16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,498.22	960.17
			For Class 52 Rating, Deduct	-1,104.78	
			For Class 54 Rating, Add	1,523.97	
			For Class 55 Rating, Add	2,274.60	
			For Class 56 Rating, Add	3,015.18	
40 05 19 00-0270	EA		16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,765.90	964.58
			For Class 52 Rating, Deduct	-1,133.49	
			For Class 54 Rating, Add	1,563.20	
			For Class 55 Rating, Add	2,332.96	
			For Class 56 Rating, Add	3,092.42	
40 05 19 00-0271	EA		16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,033.57	968.97
			For Class 52 Rating, Deduct	-1,162.20	
			For Class 54 Rating, Add	1,602.43	
			For Class 55 Rating, Add	2,391.32	
			For Class 56 Rating, Add	3,169.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272	EA	16"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,301.23	973.38
			For Class 52 Rating, Deduct	-1,190.91	
			For Class 54 Rating, Add	1,641.66	
			For Class 55 Rating, Add	2,449.69	
			For Class 56 Rating, Add	3,246.88	
40 05 19 00-0273	EA	16"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,568.90	977.78
			For Class 52 Rating, Deduct	-1,219.62	
			For Class 54 Rating, Add	1,680.89	
			For Class 55 Rating, Add	2,508.05	
			For Class 56 Rating, Add	3,324.12	
40 05 19 00-0274	EA	16"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,836.58	982.19
			For Class 52 Rating, Deduct	-1,248.33	
			For Class 54 Rating, Add	1,720.12	
			For Class 55 Rating, Add	2,566.41	
			For Class 56 Rating, Add	3,401.36	
40 05 19 00-0275	EA	16"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,104.25	986.59
			For Class 52 Rating, Deduct	-1,277.04	
			For Class 54 Rating, Add	1,759.35	
			For Class 55 Rating, Add	2,624.77	
			For Class 56 Rating, Add	3,478.59	
40 05 19 00-0276	EA	16"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,371.92	991.00
			For Class 52 Rating, Deduct	-1,305.75	
			For Class 54 Rating, Add	1,798.58	
			For Class 55 Rating, Add	2,683.14	
			For Class 56 Rating, Add	3,555.83	
40 05 19 00-0277	EA	16"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,639.60	995.40
			For Class 52 Rating, Deduct	-1,334.46	
			For Class 54 Rating, Add	1,837.81	
			For Class 55 Rating, Add	2,741.50	
			For Class 56 Rating, Add	3,633.06	
40 05 19 00-0278	EA	16"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,907.26	999.81
			For Class 52 Rating, Deduct	-1,363.16	
			For Class 54 Rating, Add	1,877.04	
			For Class 55 Rating, Add	2,799.86	
			For Class 56 Rating, Add	3,710.29	
40 05 19 00-0279	EA	16"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,174.93	1,004.21
			For Class 52 Rating, Deduct	-1,391.87	
			For Class 54 Rating, Add	1,916.27	
			For Class 55 Rating, Add	2,858.22	
			For Class 56 Rating, Add	3,787.53	
40 05 19 00-0280	EA	16"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,442.60	1,008.62
			For Class 52 Rating, Deduct	-1,420.58	
			For Class 54 Rating, Add	1,955.50	
			For Class 55 Rating, Add	2,916.59	
			For Class 56 Rating, Add	3,864.76	
40 05 19 00-0281			18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0282	EA	18"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,283.82	953.12
			For Class 52 Rating, Deduct	-422.37	
			For Class 54 Rating, Add	593.28	
			For Class 55 Rating, Add	890.91	
			For Class 56 Rating, Add	1,184.70	
40 05 19 00-0283	EA	18"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,591.64	957.53
			For Class 52 Rating, Deduct	-455.49	
			For Class 54 Rating, Add	638.54	
			For Class 55 Rating, Add	958.23	
			For Class 56 Rating, Add	1,273.78	
40 05 19 00-0284	EA	18"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,899.46	961.93
			For Class 52 Rating, Deduct	-488.62	
			For Class 54 Rating, Add	683.79	
			For Class 55 Rating, Add	1,025.54	
			For Class 56 Rating, Add	1,362.86	
40 05 19 00-0285	EA	18"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,207.29	966.34
			For Class 52 Rating, Deduct	-521.75	
			For Class 54 Rating, Add	729.04	
			For Class 55 Rating, Add	1,092.86	
			For Class 56 Rating, Add	1,451.94	
40 05 19 00-0286	EA	18"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,515.12	970.74
			For Class 52 Rating, Deduct	-554.87	
			For Class 54 Rating, Add	774.29	
			For Class 55 Rating, Add	1,160.18	
			For Class 56 Rating, Add	1,541.02	
40 05 19 00-0287	EA	18"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,822.94	975.15
			For Class 52 Rating, Deduct	-588.00	
			For Class 54 Rating, Add	819.55	
			For Class 55 Rating, Add	1,227.50	
			For Class 56 Rating, Add	1,630.10	
40 05 19 00-0288	EA	18"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,130.76	979.55
			For Class 52 Rating, Deduct	-621.13	
			For Class 54 Rating, Add	864.80	
			For Class 55 Rating, Add	1,294.81	
			For Class 56 Rating, Add	1,719.18	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,438.59	983.95
For Class 52 Rating, Deduct	-654.25	
For Class 54 Rating, Add	910.05	
For Class 55 Rating, Add	1,362.13	
For Class 56 Rating, Add	1,808.26	
40 05 19 00-0290 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,746.41	988.35
For Class 52 Rating, Deduct	-687.38	
For Class 54 Rating, Add	955.31	
For Class 55 Rating, Add	1,429.44	
For Class 56 Rating, Add	1,897.34	
40 05 19 00-0291 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,054.24	992.76
For Class 52 Rating, Deduct	-720.51	
For Class 54 Rating, Add	1,000.56	
For Class 55 Rating, Add	1,496.76	
For Class 56 Rating, Add	1,986.42	
40 05 19 00-0292 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,362.07	997.16
For Class 52 Rating, Deduct	-753.63	
For Class 54 Rating, Add	1,045.81	
For Class 55 Rating, Add	1,564.08	
For Class 56 Rating, Add	2,075.50	
40 05 19 00-0293 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,669.89	1,001.57
For Class 52 Rating, Deduct	-786.76	
For Class 54 Rating, Add	1,091.06	
For Class 55 Rating, Add	1,631.40	
For Class 56 Rating, Add	2,164.58	
40 05 19 00-0294 EA 18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,977.71	1,005.97
For Class 52 Rating, Deduct	-819.89	
For Class 54 Rating, Add	1,136.32	
For Class 55 Rating, Add	1,698.71	
For Class 56 Rating, Add	2,253.66	
40 05 19 00-0295 EA 18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,285.53	1,010.38
For Class 52 Rating, Deduct	-853.01	
For Class 54 Rating, Add	1,181.57	
For Class 55 Rating, Add	1,766.03	
For Class 56 Rating, Add	2,342.74	
40 05 19 00-0296 EA 18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,593.37	1,014.78
For Class 52 Rating, Deduct	-886.14	
For Class 54 Rating, Add	1,226.82	
For Class 55 Rating, Add	1,833.35	
For Class 56 Rating, Add	2,431.82	
40 05 19 00-0297 EA 18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,901.20	1,019.19
For Class 52 Rating, Deduct	-919.27	
For Class 54 Rating, Add	1,272.08	
For Class 55 Rating, Add	1,900.67	
For Class 56 Rating, Add	2,520.90	
40 05 19 00-0298 EA 18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,209.02	1,023.59
For Class 52 Rating, Deduct	-952.39	
For Class 54 Rating, Add	1,317.33	
For Class 55 Rating, Add	1,967.98	
For Class 56 Rating, Add	2,609.98	
40 05 19 00-0299 EA 18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,516.84	1,028.00
For Class 52 Rating, Deduct	-985.52	
For Class 54 Rating, Add	1,362.58	
For Class 55 Rating, Add	2,035.30	
For Class 56 Rating, Add	2,699.06	
40 05 19 00-0300 EA 18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,824.67	1,032.40
For Class 52 Rating, Deduct	-1,018.65	
For Class 54 Rating, Add	1,407.83	
For Class 55 Rating, Add	2,102.62	
For Class 56 Rating, Add	2,788.14	
40 05 19 00-0301 EA 18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,132.50	1,036.81
For Class 52 Rating, Deduct	-1,051.77	
For Class 54 Rating, Add	1,453.09	
For Class 55 Rating, Add	2,169.93	
For Class 56 Rating, Add	2,877.22	
40 05 19 00-0302 EA 18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,440.32	1,041.21
For Class 52 Rating, Deduct	-1,084.90	
For Class 54 Rating, Add	1,498.34	
For Class 55 Rating, Add	2,237.25	
For Class 56 Rating, Add	2,966.30	
40 05 19 00-0303 EA 18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,748.15	1,045.62
For Class 52 Rating, Deduct	-1,118.03	
For Class 54 Rating, Add	1,543.59	
For Class 55 Rating, Add	2,304.57	
For Class 56 Rating, Add	3,055.38	
40 05 19 00-0304 EA 18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,055.97	1,050.02
For Class 52 Rating, Deduct	-1,151.15	
For Class 54 Rating, Add	1,588.85	
For Class 55 Rating, Add	2,371.88	
For Class 56 Rating, Add	3,144.46	
40 05 19 00-0305 EA 18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,363.79	1,054.42
For Class 52 Rating, Deduct	-1,184.28	
For Class 54 Rating, Add	1,634.10	
For Class 55 Rating, Add	2,439.20	
For Class 56 Rating, Add	3,233.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306	EA	18"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,671.62	1,058.82
			For Class 52 Rating, Deduct	-1,217.41	
			For Class 54 Rating, Add	1,679.35	
			For Class 55 Rating, Add	2,506.52	
			For Class 56 Rating, Add	3,322.62	
40 05 19 00-0307	EA	18"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,979.45	1,063.23
			For Class 52 Rating, Deduct	-1,250.53	
			For Class 54 Rating, Add	1,724.61	
			For Class 55 Rating, Add	2,573.84	
			For Class 56 Rating, Add	3,411.70	
40 05 19 00-0308	EA	18"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,287.27	1,067.63
			For Class 52 Rating, Deduct	-1,283.66	
			For Class 54 Rating, Add	1,769.86	
			For Class 55 Rating, Add	2,641.15	
			For Class 56 Rating, Add	3,500.78	
40 05 19 00-0309	EA	18"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,595.09	1,072.04
			For Class 52 Rating, Deduct	-1,316.79	
			For Class 54 Rating, Add	1,815.11	
			For Class 55 Rating, Add	2,708.47	
			For Class 56 Rating, Add	3,589.86	
40 05 19 00-0310	EA	18"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,902.92	1,076.44
			For Class 52 Rating, Deduct	-1,349.91	
			For Class 54 Rating, Add	1,860.36	
			For Class 55 Rating, Add	2,775.79	
			For Class 56 Rating, Add	3,678.94	
40 05 19 00-0311	EA	18"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,210.75	1,080.85
			For Class 52 Rating, Deduct	-1,383.04	
			For Class 54 Rating, Add	1,905.62	
			For Class 55 Rating, Add	2,843.10	
			For Class 56 Rating, Add	3,768.02	
40 05 19 00-0312	EA	18"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,518.57	1,085.25
			For Class 52 Rating, Deduct	-1,416.17	
			For Class 54 Rating, Add	1,950.87	
			For Class 55 Rating, Add	2,910.42	
			For Class 56 Rating, Add	3,857.10	
40 05 19 00-0313	EA	18"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,826.39	1,089.66
			For Class 52 Rating, Deduct	-1,449.29	
			For Class 54 Rating, Add	1,996.12	
			For Class 55 Rating, Add	2,977.74	
			For Class 56 Rating, Add	3,946.18	
40 05 19 00-0314	EA	18"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,134.22	1,094.06
			For Class 52 Rating, Deduct	-1,482.42	
			For Class 54 Rating, Add	2,041.37	
			For Class 55 Rating, Add	3,045.05	
			For Class 56 Rating, Add	4,035.26	
40 05 19 00-0315	EA	18"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,442.05	1,098.47
			For Class 52 Rating, Deduct	-1,515.55	
			For Class 54 Rating, Add	2,086.63	
			For Class 55 Rating, Add	3,112.37	
			For Class 56 Rating, Add	4,124.34	
40 05 19 00-0316	EA	18"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,749.88	1,102.87
			For Class 52 Rating, Deduct	-1,548.67	
			For Class 54 Rating, Add	2,131.88	
			For Class 55 Rating, Add	3,179.69	
			For Class 56 Rating, Add	4,213.42	
40 05 19 00-0317	EA	18"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,057.71	1,107.28
			For Class 52 Rating, Deduct	-1,581.80	
			For Class 54 Rating, Add	2,177.13	
			For Class 55 Rating, Add	3,247.01	
			For Class 56 Rating, Add	4,302.50	
40 05 19 00-0318	EA	18"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,365.53	1,111.68
			For Class 52 Rating, Deduct	-1,614.93	
			For Class 54 Rating, Add	2,222.39	
			For Class 55 Rating, Add	3,314.32	
			For Class 56 Rating, Add	4,391.58	
40 05 19 00-0319	EA	18"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,673.35	1,116.09
			For Class 52 Rating, Deduct	-1,648.05	
			For Class 54 Rating, Add	2,267.64	
			For Class 55 Rating, Add	3,381.64	
			For Class 56 Rating, Add	4,480.66	
40 05 19 00-0320			20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0321	EA	20"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,188.20	1,087.90
			For Class 52 Rating, Deduct	-499.39	
			For Class 54 Rating, Add	700.76	
			For Class 55 Rating, Add	1,051.95	
			For Class 56 Rating, Add	1,398.60	
40 05 19 00-0322	EA	20"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,541.19	1,092.30
			For Class 52 Rating, Deduct	-537.48	
			For Class 54 Rating, Add	752.79	
			For Class 55 Rating, Add	1,129.34	
			For Class 56 Rating, Add	1,501.01	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323 EA 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,894.20	1,096.71
For Class 52 Rating, Deduct	-575.58	
For Class 54 Rating, Add	804.82	
For Class 55 Rating, Add	1,206.73	
For Class 56 Rating, Add	1,603.41	
40 05 19 00-0324 EA 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,247.19	1,101.11
For Class 52 Rating, Deduct	-613.67	
For Class 54 Rating, Add	856.85	
For Class 55 Rating, Add	1,284.12	
For Class 56 Rating, Add	1,705.82	
40 05 19 00-0325 EA 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,600.20	1,105.52
For Class 52 Rating, Deduct	-651.77	
For Class 54 Rating, Add	908.88	
For Class 55 Rating, Add	1,361.51	
For Class 56 Rating, Add	1,808.23	
40 05 19 00-0326 EA 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,953.19	1,109.92
For Class 52 Rating, Deduct	-689.86	
For Class 54 Rating, Add	960.90	
For Class 55 Rating, Add	1,438.90	
For Class 56 Rating, Add	1,910.63	
40 05 19 00-0327 EA 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,306.19	1,114.32
For Class 52 Rating, Deduct	-727.96	
For Class 54 Rating, Add	1,012.93	
For Class 55 Rating, Add	1,516.29	
For Class 56 Rating, Add	2,013.04	
40 05 19 00-0328 EA 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,659.18	1,118.72
For Class 52 Rating, Deduct	-766.06	
For Class 54 Rating, Add	1,064.96	
For Class 55 Rating, Add	1,593.68	
For Class 56 Rating, Add	2,115.44	
40 05 19 00-0329 EA 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,012.18	1,123.13
For Class 52 Rating, Deduct	-804.15	
For Class 54 Rating, Add	1,116.99	
For Class 55 Rating, Add	1,671.07	
For Class 56 Rating, Add	2,217.85	
40 05 19 00-0330 EA 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,365.18	1,127.53
For Class 52 Rating, Deduct	-842.25	
For Class 54 Rating, Add	1,169.02	
For Class 55 Rating, Add	1,748.47	
For Class 56 Rating, Add	2,320.26	
40 05 19 00-0331 EA 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,718.17	1,131.94
For Class 52 Rating, Deduct	-880.34	
For Class 54 Rating, Add	1,221.05	
For Class 55 Rating, Add	1,825.85	
For Class 56 Rating, Add	2,422.66	
40 05 19 00-0332 EA 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,071.18	1,136.34
For Class 52 Rating, Deduct	-918.44	
For Class 54 Rating, Add	1,273.08	
For Class 55 Rating, Add	1,903.25	
For Class 56 Rating, Add	2,525.07	
40 05 19 00-0333 EA 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,424.17	1,140.75
For Class 52 Rating, Deduct	-956.53	
For Class 54 Rating, Add	1,325.10	
For Class 55 Rating, Add	1,980.64	
For Class 56 Rating, Add	2,627.47	
40 05 19 00-0334 EA 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,777.17	1,145.15
For Class 52 Rating, Deduct	-994.63	
For Class 54 Rating, Add	1,377.13	
For Class 55 Rating, Add	2,058.03	
For Class 56 Rating, Add	2,729.88	
40 05 19 00-0335 EA 20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,130.16	1,149.56
For Class 52 Rating, Deduct	-1,032.73	
For Class 54 Rating, Add	1,429.16	
For Class 55 Rating, Add	2,135.42	
For Class 56 Rating, Add	2,832.28	
40 05 19 00-0336 EA 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,483.17	1,153.96
For Class 52 Rating, Deduct	-1,070.82	
For Class 54 Rating, Add	1,481.19	
For Class 55 Rating, Add	2,212.81	
For Class 56 Rating, Add	2,934.69	
40 05 19 00-0337 EA 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,836.16	1,158.37
For Class 52 Rating, Deduct	-1,108.92	
For Class 54 Rating, Add	1,533.22	
For Class 55 Rating, Add	2,290.20	
For Class 56 Rating, Add	3,037.10	
40 05 19 00-0338 EA 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,189.16	1,162.78
For Class 52 Rating, Deduct	-1,147.01	
For Class 54 Rating, Add	1,585.25	
For Class 55 Rating, Add	2,367.59	
For Class 56 Rating, Add	3,139.50	
40 05 19 00-0339 EA 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,542.16	1,167.18
For Class 52 Rating, Deduct	-1,185.11	
For Class 54 Rating, Add	1,637.28	
For Class 55 Rating, Add	2,444.98	
For Class 56 Rating, Add	3,241.91	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340	EA	20"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,895.17	1,171.59
			For Class 52 Rating, Deduct	-1,223.20	
			For Class 54 Rating, Add	1,689.31	
			For Class 55 Rating, Add	2,522.37	
			For Class 56 Rating, Add	3,344.32	
40 05 19 00-0341	EA	20"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,248.16	1,175.99
			For Class 52 Rating, Deduct	-1,261.30	
			For Class 54 Rating, Add	1,741.34	
			For Class 55 Rating, Add	2,599.76	
			For Class 56 Rating, Add	3,446.72	
40 05 19 00-0342	EA	20"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,601.16	1,180.40
			For Class 52 Rating, Deduct	-1,299.40	
			For Class 54 Rating, Add	1,793.37	
			For Class 55 Rating, Add	2,677.15	
			For Class 56 Rating, Add	3,549.13	
40 05 19 00-0343	EA	20"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,954.16	1,184.79
			For Class 52 Rating, Deduct	-1,337.49	
			For Class 54 Rating, Add	1,845.39	
			For Class 55 Rating, Add	2,754.54	
			For Class 56 Rating, Add	3,651.53	
40 05 19 00-0344	EA	20"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,307.16	1,189.20
			For Class 52 Rating, Deduct	-1,375.59	
			For Class 54 Rating, Add	1,897.42	
			For Class 55 Rating, Add	2,831.93	
			For Class 56 Rating, Add	3,753.94	
40 05 19 00-0345	EA	20"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,660.15	1,193.60
			For Class 52 Rating, Deduct	-1,413.68	
			For Class 54 Rating, Add	1,949.45	
			For Class 55 Rating, Add	2,909.32	
			For Class 56 Rating, Add	3,856.35	
40 05 19 00-0346	EA	20"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,013.16	1,198.01
			For Class 52 Rating, Deduct	-1,451.78	
			For Class 54 Rating, Add	2,001.48	
			For Class 55 Rating, Add	2,986.72	
			For Class 56 Rating, Add	3,958.75	
40 05 19 00-0347	EA	20"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,366.15	1,202.41
			For Class 52 Rating, Deduct	-1,489.87	
			For Class 54 Rating, Add	2,053.51	
			For Class 55 Rating, Add	3,064.11	
			For Class 56 Rating, Add	4,061.16	
40 05 19 00-0348	EA	20"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,719.15	1,206.82
			For Class 52 Rating, Deduct	-1,527.97	
			For Class 54 Rating, Add	2,105.54	
			For Class 55 Rating, Add	3,141.50	
			For Class 56 Rating, Add	4,163.57	
40 05 19 00-0349	EA	20"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,072.14	1,211.22
			For Class 52 Rating, Deduct	-1,566.07	
			For Class 54 Rating, Add	2,157.57	
			For Class 55 Rating, Add	3,218.89	
			For Class 56 Rating, Add	4,265.97	
40 05 19 00-0350	EA	20"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,425.15	1,215.63
			For Class 52 Rating, Deduct	-1,604.16	
			For Class 54 Rating, Add	2,209.60	
			For Class 55 Rating, Add	3,296.28	
			For Class 56 Rating, Add	4,368.38	
40 05 19 00-0351	EA	20"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,778.14	1,220.03
			For Class 52 Rating, Deduct	-1,642.26	
			For Class 54 Rating, Add	2,261.62	
			For Class 55 Rating, Add	3,373.67	
			For Class 56 Rating, Add	4,470.78	
40 05 19 00-0352	EA	20"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,131.14	1,224.44
			For Class 52 Rating, Deduct	-1,680.35	
			For Class 54 Rating, Add	2,313.65	
			For Class 55 Rating, Add	3,451.06	
			For Class 56 Rating, Add	4,573.19	
40 05 19 00-0353	EA	20"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,484.14	1,228.84
			For Class 52 Rating, Deduct	-1,718.45	
			For Class 54 Rating, Add	2,365.68	
			For Class 55 Rating, Add	3,528.45	
			For Class 56 Rating, Add	4,675.59	
40 05 19 00-0354	EA	20"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,837.13	1,233.25
			For Class 52 Rating, Deduct	-1,756.54	
			For Class 54 Rating, Add	2,417.71	
			For Class 55 Rating, Add	3,605.84	
			For Class 56 Rating, Add	4,778.00	
40 05 19 00-0355	EA	20"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,190.13	1,237.65
			For Class 52 Rating, Deduct	-1,794.64	
			For Class 54 Rating, Add	2,469.74	
			For Class 55 Rating, Add	3,683.23	
			For Class 56 Rating, Add	4,880.41	
40 05 19 00-0356	EA	20"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,543.12	1,242.06
			For Class 52 Rating, Deduct	-1,832.74	
			For Class 54 Rating, Add	2,521.77	
			For Class 55 Rating, Add	3,760.62	
			For Class 56 Rating, Add	4,982.81	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357 EA 20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,896.14	1,246.46
For Class 52 Rating, Deduct	-1,870.83	
For Class 54 Rating, Add	2,573.80	
For Class 55 Rating, Add	3,838.01	
For Class 56 Rating, Add	5,085.22	
40 05 19 00-0358 EA 20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,249.13	1,250.87
For Class 52 Rating, Deduct	-1,908.93	
For Class 54 Rating, Add	2,625.83	
For Class 55 Rating, Add	3,915.40	
For Class 56 Rating, Add	5,187.62	
40 05 19 00-0359 24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0360 EA 24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,615.31	1,286.10
For Class 52 Rating, Deduct	-623.33	
For Class 54 Rating, Add	873.39	
For Class 55 Rating, Add	1,310.44	
For Class 56 Rating, Add	1,741.82	
40 05 19 00-0361 EA 24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,051.12	1,290.50
For Class 52 Rating, Deduct	-670.54	
For Class 54 Rating, Add	937.84	
For Class 55 Rating, Add	1,406.30	
For Class 56 Rating, Add	1,868.66	
40 05 19 00-0362 EA 24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,486.94	1,294.91
For Class 52 Rating, Deduct	-717.75	
For Class 54 Rating, Add	1,002.29	
For Class 55 Rating, Add	1,502.15	
For Class 56 Rating, Add	1,995.49	
40 05 19 00-0363 EA 24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,922.75	1,299.31
For Class 52 Rating, Deduct	-764.95	
For Class 54 Rating, Add	1,066.74	
For Class 55 Rating, Add	1,598.01	
For Class 56 Rating, Add	2,122.33	
40 05 19 00-0364 EA 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,358.56	1,303.72
For Class 52 Rating, Deduct	-812.16	
For Class 54 Rating, Add	1,131.19	
For Class 55 Rating, Add	1,693.87	
For Class 56 Rating, Add	2,249.17	
40 05 19 00-0365 EA 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,794.38	1,308.12
For Class 52 Rating, Deduct	-859.36	
For Class 54 Rating, Add	1,195.64	
For Class 55 Rating, Add	1,789.73	
For Class 56 Rating, Add	2,376.00	
40 05 19 00-0366 EA 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,230.20	1,312.53
For Class 52 Rating, Deduct	-906.57	
For Class 54 Rating, Add	1,260.09	
For Class 55 Rating, Add	1,885.59	
For Class 56 Rating, Add	2,502.84	
40 05 19 00-0367 EA 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,666.01	1,316.93
For Class 52 Rating, Deduct	-953.77	
For Class 54 Rating, Add	1,324.54	
For Class 55 Rating, Add	1,981.45	
For Class 56 Rating, Add	2,629.68	
40 05 19 00-0368 EA 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,101.83	1,321.34
For Class 52 Rating, Deduct	-1,000.98	
For Class 54 Rating, Add	1,389.00	
For Class 55 Rating, Add	2,077.31	
For Class 56 Rating, Add	2,756.52	
40 05 19 00-0369 EA 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,537.65	1,325.73
For Class 52 Rating, Deduct	-1,048.18	
For Class 54 Rating, Add	1,453.45	
For Class 55 Rating, Add	2,173.16	
For Class 56 Rating, Add	2,883.35	
40 05 19 00-0370 EA 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,973.46	1,330.14
For Class 52 Rating, Deduct	-1,095.39	
For Class 54 Rating, Add	1,517.90	
For Class 55 Rating, Add	2,269.02	
For Class 56 Rating, Add	3,010.19	
40 05 19 00-0371 EA 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,409.27	1,334.54
For Class 52 Rating, Deduct	-1,142.60	
For Class 54 Rating, Add	1,582.35	
For Class 55 Rating, Add	2,364.88	
For Class 56 Rating, Add	3,137.03	
40 05 19 00-0372 EA 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,845.10	1,338.95
For Class 52 Rating, Deduct	-1,189.80	
For Class 54 Rating, Add	1,646.80	
For Class 55 Rating, Add	2,460.74	
For Class 56 Rating, Add	3,263.87	
40 05 19 00-0373 EA 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,280.91	1,343.35
For Class 52 Rating, Deduct	-1,237.01	
For Class 54 Rating, Add	1,711.25	
For Class 55 Rating, Add	2,556.60	
For Class 56 Rating, Add	3,390.70	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374	EA	24"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,716.72	1,347.76
			For Class 52 Rating, Deduct	-1,284.21	
			For Class 54 Rating, Add	1,775.70	
			For Class 55 Rating, Add	2,652.46	
			For Class 56 Rating, Add	3,517.54	
40 05 19 00-0375	EA	24"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,152.53	1,352.16
			For Class 52 Rating, Deduct	-1,331.42	
			For Class 54 Rating, Add	1,840.15	
			For Class 55 Rating, Add	2,748.32	
			For Class 56 Rating, Add	3,644.38	
40 05 19 00-0376	EA	24"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,588.35	1,356.57
			For Class 52 Rating, Deduct	-1,378.62	
			For Class 54 Rating, Add	1,904.61	
			For Class 55 Rating, Add	2,844.18	
			For Class 56 Rating, Add	3,771.21	
40 05 19 00-0377	EA	24"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,024.16	1,360.97
			For Class 52 Rating, Deduct	-1,425.83	
			For Class 54 Rating, Add	1,969.06	
			For Class 55 Rating, Add	2,940.03	
			For Class 56 Rating, Add	3,898.05	
40 05 19 00-0378	EA	24"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,459.98	1,365.38
			For Class 52 Rating, Deduct	-1,473.04	
			For Class 54 Rating, Add	2,033.51	
			For Class 55 Rating, Add	3,035.89	
			For Class 56 Rating, Add	4,024.89	
40 05 19 00-0379	EA	24"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,895.80	1,369.78
			For Class 52 Rating, Deduct	-1,520.24	
			For Class 54 Rating, Add	2,097.96	
			For Class 55 Rating, Add	3,131.75	
			For Class 56 Rating, Add	4,151.72	
40 05 19 00-0380	EA	24"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,331.61	1,374.19
			For Class 52 Rating, Deduct	-1,567.45	
			For Class 54 Rating, Add	2,162.41	
			For Class 55 Rating, Add	3,227.61	
			For Class 56 Rating, Add	4,278.56	
40 05 19 00-0381	EA	24"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,767.42	1,378.59
			For Class 52 Rating, Deduct	-1,614.65	
			For Class 54 Rating, Add	2,226.86	
			For Class 55 Rating, Add	3,323.47	
			For Class 56 Rating, Add	4,405.40	
40 05 19 00-0382	EA	24"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,203.23	1,383.00
			For Class 52 Rating, Deduct	-1,661.86	
			For Class 54 Rating, Add	2,291.31	
			For Class 55 Rating, Add	3,419.33	
			For Class 56 Rating, Add	4,532.23	
40 05 19 00-0383	EA	24"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,639.05	1,387.40
			For Class 52 Rating, Deduct	-1,709.06	
			For Class 54 Rating, Add	2,355.76	
			For Class 55 Rating, Add	3,515.19	
			For Class 56 Rating, Add	4,659.07	
40 05 19 00-0384	EA	24"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,074.87	1,391.81
			For Class 52 Rating, Deduct	-1,756.27	
			For Class 54 Rating, Add	2,420.22	
			For Class 55 Rating, Add	3,611.05	
			For Class 56 Rating, Add	4,785.91	
40 05 19 00-0385	EA	24"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,510.69	1,396.21
			For Class 52 Rating, Deduct	-1,803.47	
			For Class 54 Rating, Add	2,484.67	
			For Class 55 Rating, Add	3,706.91	
			For Class 56 Rating, Add	4,912.75	
40 05 19 00-0386	EA	24"	Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,946.50	1,400.61
			For Class 52 Rating, Deduct	-1,850.68	
			For Class 54 Rating, Add	2,549.12	
			For Class 55 Rating, Add	3,802.76	
			For Class 56 Rating, Add	5,039.58	
40 05 19 00-0387	EA	24"	Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,382.32	1,405.01
			For Class 52 Rating, Deduct	-1,897.89	
			For Class 54 Rating, Add	2,613.57	
			For Class 55 Rating, Add	3,898.62	
			For Class 56 Rating, Add	5,166.42	
40 05 19 00-0388	EA	24"	Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,818.13	1,409.42
			For Class 52 Rating, Deduct	-1,945.09	
			For Class 54 Rating, Add	2,678.02	
			For Class 55 Rating, Add	3,994.48	
			For Class 56 Rating, Add	5,293.26	
40 05 19 00-0389	EA	24"	Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,367.39	1,488.70
			For Class 52 Rating, Deduct	-1,992.30	
			For Class 54 Rating, Add	2,743.83	
			For Class 55 Rating, Add	4,093.06	
			For Class 56 Rating, Add	5,424.18	
40 05 19 00-0390	EA	24"	Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,803.20	1,493.10
			For Class 52 Rating, Deduct	-2,039.50	
			For Class 54 Rating, Add	2,808.29	
			For Class 55 Rating, Add	4,188.92	
			For Class 56 Rating, Add	5,551.01	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391 EA 24" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,239.03	1,497.51
For Class 52 Rating, Deduct	-2,086.71	
For Class 54 Rating, Add	2,872.74	
For Class 55 Rating, Add	4,284.78	
For Class 56 Rating, Add	5,677.85	
40 05 19 00-0392 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,674.84	1,501.91
For Class 52 Rating, Deduct	-2,133.91	
For Class 54 Rating, Add	2,937.19	
For Class 55 Rating, Add	4,380.64	
For Class 56 Rating, Add	5,804.69	
40 05 19 00-0393 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,110.65	1,506.32
For Class 52 Rating, Deduct	-2,181.12	
For Class 54 Rating, Add	3,001.64	
For Class 55 Rating, Add	4,476.50	
For Class 56 Rating, Add	5,931.53	
40 05 19 00-0394 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,546.47	1,510.72
For Class 52 Rating, Deduct	-2,228.32	
For Class 54 Rating, Add	3,066.09	
For Class 55 Rating, Add	4,572.36	
For Class 56 Rating, Add	6,058.36	
40 05 19 00-0395 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,982.28	1,515.13
For Class 52 Rating, Deduct	-2,275.53	
For Class 54 Rating, Add	3,130.54	
For Class 55 Rating, Add	4,668.21	
For Class 56 Rating, Add	6,185.20	
40 05 19 00-0396 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,418.09	1,519.53
For Class 52 Rating, Deduct	-2,322.73	
For Class 54 Rating, Add	3,194.99	
For Class 55 Rating, Add	4,764.07	
For Class 56 Rating, Add	6,312.04	
40 05 19 00-0397 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,853.91	1,523.94
For Class 52 Rating, Deduct	-2,369.94	
For Class 54 Rating, Add	3,259.45	
For Class 55 Rating, Add	4,859.93	
For Class 56 Rating, Add	6,438.88	

40 05 19 00-0398 30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-0002)

40 05 19 00-0399 EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,758.90	1,814.63
For Class 52 Rating, Deduct	-991.04	
For Class 54 Rating, Add	1,384.41	
For Class 55 Rating, Add	2,075.10	
For Class 56 Rating, Add	2,756.77	
40 05 19 00-0400 EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,385.45	1,819.04
For Class 52 Rating, Deduct	-1,059.23	
For Class 54 Rating, Add	1,477.47	
For Class 55 Rating, Add	2,213.49	
For Class 56 Rating, Add	2,939.88	
40 05 19 00-0401 EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,012.00	1,823.44
For Class 52 Rating, Deduct	-1,127.41	
For Class 54 Rating, Add	1,570.53	
For Class 55 Rating, Add	2,351.88	
For Class 56 Rating, Add	3,122.98	
40 05 19 00-0402 EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,638.54	1,827.84
For Class 52 Rating, Deduct	-1,195.60	
For Class 54 Rating, Add	1,663.60	
For Class 55 Rating, Add	2,490.27	
For Class 56 Rating, Add	3,306.08	
40 05 19 00-0403 EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,265.08	1,832.24
For Class 52 Rating, Deduct	-1,263.78	
For Class 54 Rating, Add	1,756.66	
For Class 55 Rating, Add	2,628.66	
For Class 56 Rating, Add	3,489.18	
40 05 19 00-0404 EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,891.62	1,836.65
For Class 52 Rating, Deduct	-1,331.97	
For Class 54 Rating, Add	1,849.72	
For Class 55 Rating, Add	2,767.05	
For Class 56 Rating, Add	3,672.28	
40 05 19 00-0405 EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,518.17	1,841.05
For Class 52 Rating, Deduct	-1,400.16	
For Class 54 Rating, Add	1,942.78	
For Class 55 Rating, Add	2,905.45	
For Class 56 Rating, Add	3,855.38	
40 05 19 00-0406 EA 30" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,144.71	1,845.46
For Class 52 Rating, Deduct	-1,468.34	
For Class 54 Rating, Add	2,035.84	
For Class 55 Rating, Add	3,043.84	
For Class 56 Rating, Add	4,038.49	
40 05 19 00-0407 EA 30" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,771.26	1,849.86
For Class 52 Rating, Deduct	-1,536.53	
For Class 54 Rating, Add	2,128.90	
For Class 55 Rating, Add	3,182.23	
For Class 56 Rating, Add	4,221.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408	EA	30"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,397.80	1,854.27
			For Class 52 Rating, Deduct	-1,604.71	
			For Class 54 Rating, Add	2,221.96	
			For Class 55 Rating, Add	3,320.62	
			For Class 56 Rating, Add	4,404.69	
40 05 19 00-0409	EA	30"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,024.36	1,858.67
			For Class 52 Rating, Deduct	-1,672.90	
			For Class 54 Rating, Add	2,315.02	
			For Class 55 Rating, Add	3,459.01	
			For Class 56 Rating, Add	4,587.80	
40 05 19 00-0410	EA	30"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,650.90	1,863.08
			For Class 52 Rating, Deduct	-1,741.09	
			For Class 54 Rating, Add	2,408.08	
			For Class 55 Rating, Add	3,597.40	
			For Class 56 Rating, Add	4,770.90	
40 05 19 00-0411	EA	30"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,277.44	1,867.48
			For Class 52 Rating, Deduct	-1,809.27	
			For Class 54 Rating, Add	2,501.14	
			For Class 55 Rating, Add	3,735.79	
			For Class 56 Rating, Add	4,954.00	
40 05 19 00-0412	EA	30"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,903.99	1,871.89
			For Class 52 Rating, Deduct	-1,877.46	
			For Class 54 Rating, Add	2,594.20	
			For Class 55 Rating, Add	3,874.19	
			For Class 56 Rating, Add	5,137.10	
40 05 19 00-0413	EA	30"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,530.53	1,876.29
			For Class 52 Rating, Deduct	-1,945.64	
			For Class 54 Rating, Add	2,687.26	
			For Class 55 Rating, Add	4,012.58	
			For Class 56 Rating, Add	5,320.20	
40 05 19 00-0414	EA	30"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,157.07	1,880.70
			For Class 52 Rating, Deduct	-2,013.83	
			For Class 54 Rating, Add	2,780.32	
			For Class 55 Rating, Add	4,150.97	
			For Class 56 Rating, Add	5,503.30	
40 05 19 00-0415	EA	30"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,783.61	1,885.10
			For Class 52 Rating, Deduct	-2,082.01	
			For Class 54 Rating, Add	2,873.38	
			For Class 55 Rating, Add	4,289.36	
			For Class 56 Rating, Add	5,686.41	
40 05 19 00-0416	EA	30"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,410.16	1,889.51
			For Class 52 Rating, Deduct	-2,150.20	
			For Class 54 Rating, Add	2,966.45	
			For Class 55 Rating, Add	4,427.75	
			For Class 56 Rating, Add	5,869.51	
40 05 19 00-0417	EA	30"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,036.71	1,893.91
			For Class 52 Rating, Deduct	-2,218.39	
			For Class 54 Rating, Add	3,059.51	
			For Class 55 Rating, Add	4,566.14	
			For Class 56 Rating, Add	6,052.61	
40 05 19 00-0418	EA	30"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,663.25	1,898.31
			For Class 52 Rating, Deduct	-2,286.57	
			For Class 54 Rating, Add	3,152.57	
			For Class 55 Rating, Add	4,704.53	
			For Class 56 Rating, Add	6,235.72	
40 05 19 00-0419	EA	30"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,289.80	1,902.71
			For Class 52 Rating, Deduct	-2,354.76	
			For Class 54 Rating, Add	3,245.63	
			For Class 55 Rating, Add	4,842.93	
			For Class 56 Rating, Add	6,418.82	
40 05 19 00-0420	EA	30"	Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,916.34	1,907.12
			For Class 52 Rating, Deduct	-2,422.94	
			For Class 54 Rating, Add	3,338.69	
			For Class 55 Rating, Add	4,981.32	
			For Class 56 Rating, Add	6,601.92	
40 05 19 00-0421	EA	30"	Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,542.88	1,911.52
			For Class 52 Rating, Deduct	-2,491.13	
			For Class 54 Rating, Add	3,431.75	
			For Class 55 Rating, Add	5,119.71	
			For Class 56 Rating, Add	6,785.02	
40 05 19 00-0422	EA	30"	Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,169.42	1,915.93
			For Class 52 Rating, Deduct	-2,559.32	
			For Class 54 Rating, Add	3,524.81	
			For Class 55 Rating, Add	5,258.10	
			For Class 56 Rating, Add	6,968.12	
40 05 19 00-0423	EA	30"	Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,795.96	1,920.33
			For Class 52 Rating, Deduct	-2,627.22	
			For Class 54 Rating, Add	3,617.49	
			For Class 55 Rating, Add	5,395.93	
			For Class 56 Rating, Add	7,150.48	
40 05 19 00-0424	EA	30"	Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,422.52	1,924.74
			For Class 52 Rating, Deduct	-2,695.69	
			For Class 54 Rating, Add	3,710.93	
			For Class 55 Rating, Add	5,534.88	
			For Class 56 Rating, Add	7,334.33	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,049.07	1,929.15
For Class 52 Rating, Deduct	-2,763.87	
For Class 54 Rating, Add	3,803.99	
For Class 55 Rating, Add	5,673.28	
For Class 56 Rating, Add	7,517.43	
40 05 19 00-0426 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,675.62	1,933.55
For Class 52 Rating, Deduct	-2,832.06	
For Class 54 Rating, Add	3,897.05	
For Class 55 Rating, Add	5,811.67	
For Class 56 Rating, Add	7,700.53	
40 05 19 00-0427 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,302.16	1,937.96
For Class 52 Rating, Deduct	-2,900.24	
For Class 54 Rating, Add	3,990.11	
For Class 55 Rating, Add	5,950.06	
For Class 56 Rating, Add	7,883.64	
40 05 19 00-0428 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,928.70	1,942.36
For Class 52 Rating, Deduct	-2,968.43	
For Class 54 Rating, Add	4,083.18	
For Class 55 Rating, Add	6,088.45	
For Class 56 Rating, Add	8,066.74	
40 05 19 00-0429 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,555.24	1,946.77
For Class 52 Rating, Deduct	-3,036.62	
For Class 54 Rating, Add	4,176.24	
For Class 55 Rating, Add	6,226.84	
For Class 56 Rating, Add	8,249.84	
40 05 19 00-0430 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,181.79	1,951.17
For Class 52 Rating, Deduct	-3,104.80	
For Class 54 Rating, Add	4,269.30	
For Class 55 Rating, Add	6,365.23	
For Class 56 Rating, Add	8,432.94	
40 05 19 00-0431 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,808.33	1,955.58
For Class 52 Rating, Deduct	-3,172.99	
For Class 54 Rating, Add	4,362.36	
For Class 55 Rating, Add	6,503.62	
For Class 56 Rating, Add	8,616.04	
40 05 19 00-0432 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,434.87	1,959.98
For Class 52 Rating, Deduct	-3,241.17	
For Class 54 Rating, Add	4,455.42	
For Class 55 Rating, Add	6,642.01	
For Class 56 Rating, Add	8,799.14	
40 05 19 00-0433 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,061.42	1,964.39
For Class 52 Rating, Deduct	-3,309.36	
For Class 54 Rating, Add	4,548.48	
For Class 55 Rating, Add	6,780.41	
For Class 56 Rating, Add	8,982.25	
40 05 19 00-0434 EA 30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,687.97	1,968.79
For Class 52 Rating, Deduct	-3,377.55	
For Class 54 Rating, Add	4,641.54	
For Class 55 Rating, Add	6,918.80	
For Class 56 Rating, Add	9,165.35	
40 05 19 00-0435 EA 30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,314.51	1,973.19
For Class 52 Rating, Deduct	-3,445.73	
For Class 54 Rating, Add	4,734.60	
For Class 55 Rating, Add	7,057.19	
For Class 56 Rating, Add	9,348.45	
40 05 19 00-0436 EA 30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,941.05	1,977.59
For Class 52 Rating, Deduct	-3,513.92	
For Class 54 Rating, Add	4,827.66	
For Class 55 Rating, Add	7,195.58	
For Class 56 Rating, Add	9,531.56	
40 05 19 00-0437 36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0438 EA 36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,375.33	2,299.12
For Class 52 Rating, Deduct	-1,418.10	
For Class 54 Rating, Add	1,975.58	
For Class 55 Rating, Add	2,958.48	
For Class 56 Rating, Add	3,928.49	
40 05 19 00-0439 EA 36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,225.23	2,303.53
For Class 52 Rating, Deduct	-1,510.85	
For Class 54 Rating, Add	2,102.14	
For Class 55 Rating, Add	3,146.68	
For Class 56 Rating, Add	4,177.48	
40 05 19 00-0440 EA 36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,075.13	2,307.93
For Class 52 Rating, Deduct	-1,603.61	
For Class 54 Rating, Add	2,228.70	
For Class 55 Rating, Add	3,334.88	
For Class 56 Rating, Add	4,426.48	
40 05 19 00-0441 EA 36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,925.03	2,312.34
For Class 52 Rating, Deduct	-1,696.36	
For Class 54 Rating, Add	2,355.27	
For Class 55 Rating, Add	3,523.08	
For Class 56 Rating, Add	4,675.47	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442	EA	36"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,774.93	2,316.74
			For Class 52 Rating, Deduct	-1,789.12	
			For Class 54 Rating, Add	2,481.63	
			For Class 55 Rating, Add	3,711.28	
			For Class 56 Rating, Add	4,924.46	
40 05 19 00-0443	EA	36"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,624.82	2,321.15
			For Class 52 Rating, Deduct	-1,881.87	
			For Class 54 Rating, Add	2,608.39	
			For Class 55 Rating, Add	3,899.48	
			For Class 56 Rating, Add	5,173.45	
40 05 19 00-0444	EA	36"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,474.73	2,325.55
			For Class 52 Rating, Deduct	-1,974.63	
			For Class 54 Rating, Add	2,734.96	
			For Class 55 Rating, Add	4,087.68	
			For Class 56 Rating, Add	5,422.44	
40 05 19 00-0445	EA	36"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,324.62	2,329.95
			For Class 52 Rating, Deduct	-2,067.38	
			For Class 54 Rating, Add	2,861.52	
			For Class 55 Rating, Add	4,275.87	
			For Class 56 Rating, Add	5,671.43	
40 05 19 00-0446	EA	36"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,174.52	2,334.35
			For Class 52 Rating, Deduct	-2,160.14	
			For Class 54 Rating, Add	2,988.09	
			For Class 55 Rating, Add	4,464.07	
			For Class 56 Rating, Add	5,920.43	
40 05 19 00-0447	EA	36"	Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,024.42	2,338.76
			For Class 52 Rating, Deduct	-2,252.89	
			For Class 54 Rating, Add	3,114.65	
			For Class 55 Rating, Add	4,652.28	
			For Class 56 Rating, Add	6,169.42	
40 05 19 00-0448	EA	36"	Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,874.32	2,343.16
			For Class 52 Rating, Deduct	-2,345.65	
			For Class 54 Rating, Add	3,241.21	
			For Class 55 Rating, Add	4,840.47	
			For Class 56 Rating, Add	6,418.41	
40 05 19 00-0449	EA	36"	Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,724.22	2,347.57
			For Class 52 Rating, Deduct	-2,438.40	
			For Class 54 Rating, Add	3,367.78	
			For Class 55 Rating, Add	5,028.67	
			For Class 56 Rating, Add	6,667.40	
40 05 19 00-0450	EA	36"	Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,574.11	2,351.97
			For Class 52 Rating, Deduct	-2,531.16	
			For Class 54 Rating, Add	3,494.34	
			For Class 55 Rating, Add	5,216.87	
			For Class 56 Rating, Add	6,916.39	
40 05 19 00-0451	EA	36"	Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,424.02	2,356.38
			For Class 52 Rating, Deduct	-2,623.91	
			For Class 54 Rating, Add	3,620.91	
			For Class 55 Rating, Add	5,405.07	
			For Class 56 Rating, Add	7,165.39	
40 05 19 00-0452	EA	36"	Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,273.91	2,360.78
			For Class 52 Rating, Deduct	-2,716.67	
			For Class 54 Rating, Add	3,747.47	
			For Class 55 Rating, Add	5,593.27	
			For Class 56 Rating, Add	7,414.38	
40 05 19 00-0453	EA	36"	Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,123.81	2,365.19
			For Class 52 Rating, Deduct	-2,809.42	
			For Class 54 Rating, Add	3,874.03	
			For Class 55 Rating, Add	5,781.47	
			For Class 56 Rating, Add	7,663.37	
40 05 19 00-0454	EA	36"	Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,973.70	2,369.59
			For Class 52 Rating, Deduct	-2,902.18	
			For Class 54 Rating, Add	4,000.60	
			For Class 55 Rating, Add	5,969.67	
			For Class 56 Rating, Add	7,912.36	
40 05 19 00-0455	EA	36"	Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,823.61	2,374.00
			For Class 52 Rating, Deduct	-2,994.93	
			For Class 54 Rating, Add	4,127.16	
			For Class 55 Rating, Add	6,157.87	
			For Class 56 Rating, Add	8,161.35	
40 05 19 00-0456	EA	36"	Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,673.52	2,378.40
			For Class 52 Rating, Deduct	-3,087.69	
			For Class 54 Rating, Add	4,253.73	
			For Class 55 Rating, Add	6,346.07	
			For Class 56 Rating, Add	8,410.35	
40 05 19 00-0457	EA	36"	Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,523.41	2,382.81
			For Class 52 Rating, Deduct	-3,180.44	
			For Class 54 Rating, Add	4,380.29	
			For Class 55 Rating, Add	6,534.27	
			For Class 56 Rating, Add	8,659.34	
40 05 19 00-0458	EA	36"	Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,373.32	2,387.21
			For Class 52 Rating, Deduct	-3,273.20	
			For Class 54 Rating, Add	4,506.85	
			For Class 55 Rating, Add	6,722.47	
			For Class 56 Rating, Add	8,908.33	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459 EA 36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,223.21	2,391.62
For Class 52 Rating, Deduct	-3,365.95	
For Class 54 Rating, Add	4,633.42	
For Class 55 Rating, Add	6,910.67	
For Class 56 Rating, Add	9,157.32	
40 05 19 00-0460 EA 36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,923.11	2,396.02
For Class 52 Rating, Deduct	-3,458.71	
For Class 54 Rating, Add	4,759.98	
For Class 55 Rating, Add	7,098.87	
For Class 56 Rating, Add	9,406.31	
40 05 19 00-0461 EA 36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,923.00	2,400.42
For Class 52 Rating, Deduct	-3,551.46	
For Class 54 Rating, Add	4,886.54	
For Class 55 Rating, Add	7,287.07	
For Class 56 Rating, Add	9,655.30	
40 05 19 00-0462 EA 36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,772.91	2,404.82
For Class 52 Rating, Deduct	-3,644.22	
For Class 54 Rating, Add	5,013.11	
For Class 55 Rating, Add	7,475.27	
For Class 56 Rating, Add	9,904.30	
40 05 19 00-0463 EA 36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,622.81	2,409.23
For Class 52 Rating, Deduct	-3,736.97	
For Class 54 Rating, Add	5,139.67	
For Class 55 Rating, Add	7,663.47	
For Class 56 Rating, Add	10,153.29	
40 05 19 00-0464 EA 36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,472.70	2,413.63
For Class 52 Rating, Deduct	-3,829.72	
For Class 54 Rating, Add	5,266.24	
For Class 55 Rating, Add	7,851.67	
For Class 56 Rating, Add	10,402.28	
40 05 19 00-0465 EA 36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,322.60	2,418.04
For Class 52 Rating, Deduct	-3,922.48	
For Class 54 Rating, Add	5,392.80	
For Class 55 Rating, Add	8,039.87	
For Class 56 Rating, Add	10,651.27	
40 05 19 00-0466 EA 36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,172.50	2,422.44
For Class 52 Rating, Deduct	-4,015.23	
For Class 54 Rating, Add	5,519.36	
For Class 55 Rating, Add	8,228.06	
For Class 56 Rating, Add	10,900.26	
40 05 19 00-0467 EA 36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,022.40	2,426.85
For Class 52 Rating, Deduct	-4,107.99	
For Class 54 Rating, Add	5,645.93	
For Class 55 Rating, Add	8,416.26	
For Class 56 Rating, Add	11,149.25	
40 05 19 00-0468 EA 36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,872.29	2,431.25
For Class 52 Rating, Deduct	-4,200.74	
For Class 54 Rating, Add	5,772.49	
For Class 55 Rating, Add	8,604.46	
For Class 56 Rating, Add	11,398.24	
40 05 19 00-0469 EA 36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,722.20	2,435.66
For Class 52 Rating, Deduct	-4,293.50	
For Class 54 Rating, Add	5,899.06	
For Class 55 Rating, Add	8,792.66	
For Class 56 Rating, Add	11,647.24	
40 05 19 00-0470 EA 36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,572.09	2,440.06
For Class 52 Rating, Deduct	-4,386.25	
For Class 54 Rating, Add	6,025.62	
For Class 55 Rating, Add	8,980.86	
For Class 56 Rating, Add	11,896.23	
40 05 19 00-0471 EA 36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,421.99	2,444.47
For Class 52 Rating, Deduct	-4,479.01	
For Class 54 Rating, Add	6,152.18	
For Class 55 Rating, Add	9,169.06	
For Class 56 Rating, Add	12,145.22	
40 05 19 00-0472 EA 36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,271.89	2,448.87
For Class 52 Rating, Deduct	-4,571.76	
For Class 54 Rating, Add	6,278.75	
For Class 55 Rating, Add	9,357.26	
For Class 56 Rating, Add	12,394.21	
40 05 19 00-0473 EA 36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,121.80	2,453.28
For Class 52 Rating, Deduct	-4,664.52	
For Class 54 Rating, Add	6,405.31	
For Class 55 Rating, Add	9,545.46	
For Class 56 Rating, Add	12,643.20	
40 05 19 00-0474 EA 36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,971.70	2,457.68
For Class 52 Rating, Deduct	-4,757.27	
For Class 54 Rating, Add	6,531.88	
For Class 55 Rating, Add	9,733.66	
For Class 56 Rating, Add	12,892.20	
40 05 19 00-0475 EA 36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,821.59	2,462.09
For Class 52 Rating, Deduct	-4,850.03	
For Class 54 Rating, Add	6,658.44	
For Class 55 Rating, Add	9,921.86	
For Class 56 Rating, Add	13,141.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0476			42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)		
40 05 19 00-0477	EA		42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,589.38	2,898.13
			For Class 52 Rating, Deduct	-1,891.81	
			For Class 54 Rating, Add	2,632.44	
			For Class 55 Rating, Add	3,940.60	
			For Class 56 Rating, Add	5,231.57	
40 05 19 00-0478	EA		42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,855.87	2,902.52
			For Class 52 Rating, Deduct	-2,030.39	
			For Class 54 Rating, Add	2,821.49	
			For Class 55 Rating, Add	4,221.70	
			For Class 56 Rating, Add	5,603.46	
40 05 19 00-0479	EA		42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,107.32	2,906.93
			For Class 52 Rating, Deduct	-2,167.32	
			For Class 54 Rating, Add	3,008.28	
			For Class 55 Rating, Add	4,499.45	
			For Class 56 Rating, Add	5,970.91	
40 05 19 00-0480	EA		42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,371.30	2,911.33
			For Class 52 Rating, Deduct	-2,305.62	
			For Class 54 Rating, Add	3,196.96	
			For Class 55 Rating, Add	4,779.99	
			For Class 56 Rating, Add	6,342.05	
40 05 19 00-0481	EA		42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,622.73	2,915.74
			For Class 52 Rating, Deduct	-2,442.54	
			For Class 54 Rating, Add	3,383.75	
			For Class 55 Rating, Add	5,057.73	
			For Class 56 Rating, Add	6,709.50	
40 05 19 00-0482	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,889.23	2,920.14
			For Class 52 Rating, Deduct	-2,581.12	
			For Class 54 Rating, Add	3,572.81	
			For Class 55 Rating, Add	5,338.63	
			For Class 56 Rating, Add	7,081.39	
40 05 19 00-0483	EA		42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,138.15	2,924.55
			For Class 52 Rating, Deduct	-2,717.77	
			For Class 54 Rating, Add	3,759.23	
			For Class 55 Rating, Add	5,616.01	
			For Class 56 Rating, Add	7,448.09	
40 05 19 00-0484	EA		42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,404.64	2,928.95
			For Class 52 Rating, Deduct	-2,856.35	
			For Class 54 Rating, Add	3,948.28	
			For Class 55 Rating, Add	5,897.11	
			For Class 56 Rating, Add	7,819.98	
40 05 19 00-0485	EA		42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,656.07	2,933.36
			For Class 52 Rating, Deduct	-2,993.27	
			For Class 54 Rating, Add	4,135.07	
			For Class 55 Rating, Add	6,174.85	
			For Class 56 Rating, Add	8,187.42	
40 05 19 00-0486	EA		42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,920.06	2,937.76
			For Class 52 Rating, Deduct	-3,131.58	
			For Class 54 Rating, Add	4,323.75	
			For Class 55 Rating, Add	6,455.39	
			For Class 56 Rating, Add	8,558.57	
40 05 19 00-0487	EA		42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,171.49	2,942.17
			For Class 52 Rating, Deduct	-3,268.50	
			For Class 54 Rating, Add	4,510.54	
			For Class 55 Rating, Add	6,733.13	
			For Class 56 Rating, Add	8,926.01	
40 05 19 00-0488	EA		42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,435.47	2,946.57
			For Class 52 Rating, Deduct	-3,406.81	
			For Class 54 Rating, Add	4,699.22	
			For Class 55 Rating, Add	7,013.67	
			For Class 56 Rating, Add	9,297.16	
40 05 19 00-0489	EA		42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,686.92	2,950.98
			For Class 52 Rating, Deduct	-3,543.73	
			For Class 54 Rating, Add	4,886.02	
			For Class 55 Rating, Add	7,291.42	
			For Class 56 Rating, Add	9,664.61	
40 05 19 00-0490	EA		42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,940.86	2,955.38
			For Class 52 Rating, Deduct	-3,680.93	
			For Class 54 Rating, Add	5,073.19	
			For Class 55 Rating, Add	7,569.72	
			For Class 56 Rating, Add	10,032.79	
40 05 19 00-0491	EA		42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,202.33	2,959.79
			For Class 52 Rating, Deduct	-3,818.96	
			For Class 54 Rating, Add	5,261.49	
			For Class 55 Rating, Add	7,849.70	
			For Class 56 Rating, Add	10,403.20	
40 05 19 00-0492	EA		42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,453.76	2,964.19
			For Class 52 Rating, Deduct	-3,955.88	
			For Class 54 Rating, Add	5,448.28	
			For Class 55 Rating, Add	8,127.44	
			For Class 56 Rating, Add	10,770.64	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA		42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,720.26	2,968.60
			For Class 52 Rating, Deduct	-4,094.46	
			For Class 54 Rating, Add	5,637.33	
			For Class 55 Rating, Add	8,408.54	
			For Class 56 Rating, Add	11,142.53	
40 05 19 00-0494	EA		42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,971.69	2,973.00
			For Class 52 Rating, Deduct	-4,231.39	
			For Class 54 Rating, Add	5,824.13	
			For Class 55 Rating, Add	8,686.28	
			For Class 56 Rating, Add	11,509.97	
40 05 19 00-0495	EA		42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,235.67	2,977.40
			For Class 52 Rating, Deduct	-4,369.69	
			For Class 54 Rating, Add	6,012.80	
			For Class 55 Rating, Add	8,966.82	
			For Class 56 Rating, Add	11,881.12	
40 05 19 00-0496	EA		42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,487.12	2,981.80
			For Class 52 Rating, Deduct	-4,506.61	
			For Class 54 Rating, Add	6,199.60	
			For Class 55 Rating, Add	9,244.57	
			For Class 56 Rating, Add	12,248.56	
40 05 19 00-0497	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,753.61	2,986.21
			For Class 52 Rating, Deduct	-4,645.19	
			For Class 54 Rating, Add	6,388.65	
			For Class 55 Rating, Add	9,525.67	
			For Class 56 Rating, Add	12,620.45	
40 05 19 00-0498	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,005.04	2,990.61
			For Class 52 Rating, Deduct	-4,782.12	
			For Class 54 Rating, Add	6,575.44	
			For Class 55 Rating, Add	9,803.41	
			For Class 56 Rating, Add	12,987.90	
40 05 19 00-0499	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,269.02	2,995.02
			For Class 52 Rating, Deduct	-4,920.42	
			For Class 54 Rating, Add	6,764.12	
			For Class 55 Rating, Add	10,083.95	
			For Class 56 Rating, Add	13,359.04	
40 05 19 00-0500	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,520.46	2,999.42
			For Class 52 Rating, Deduct	-5,057.35	
			For Class 54 Rating, Add	6,950.92	
			For Class 55 Rating, Add	10,361.69	
			For Class 56 Rating, Add	13,726.49	
40 05 19 00-0501	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,786.95	3,003.83
			For Class 52 Rating, Deduct	-5,195.93	
			For Class 54 Rating, Add	7,139.97	
			For Class 55 Rating, Add	10,642.79	
			For Class 56 Rating, Add	14,098.37	
40 05 19 00-0502	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,038.38	3,008.23
			For Class 52 Rating, Deduct	-5,332.85	
			For Class 54 Rating, Add	7,326.76	
			For Class 55 Rating, Add	10,920.53	
			For Class 56 Rating, Add	14,465.82	
40 05 19 00-0503	EA		42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,299.85	3,012.64
			For Class 52 Rating, Deduct	-5,470.88	
			For Class 54 Rating, Add	7,515.06	
			For Class 55 Rating, Add	11,200.51	
			For Class 56 Rating, Add	14,836.22	
40 05 19 00-0504	EA		42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,553.80	3,017.04
			For Class 52 Rating, Deduct	-5,608.08	
			For Class 54 Rating, Add	7,702.23	
			For Class 55 Rating, Add	11,478.81	
			For Class 56 Rating, Add	15,204.41	
40 05 19 00-0505	EA		42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,554.28	3,021.45
			For Class 52 Rating, Deduct	-5,717.40	
			For Class 54 Rating, Add	7,851.38	
			For Class 55 Rating, Add	11,700.59	
			For Class 56 Rating, Add	15,497.82	
40 05 19 00-0506	EA		42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,069.22	3,025.85
			For Class 52 Rating, Deduct	-5,883.31	
			For Class 54 Rating, Add	8,077.71	
			For Class 55 Rating, Add	12,037.10	
			For Class 56 Rating, Add	15,943.00	
40 05 19 00-0507	EA		42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,320.66	3,030.26
			For Class 52 Rating, Deduct	-6,020.23	
			For Class 54 Rating, Add	8,264.50	
			For Class 55 Rating, Add	12,314.84	
			For Class 56 Rating, Add	16,310.45	
40 05 19 00-0508	EA		42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,584.64	3,034.66
			For Class 52 Rating, Deduct	-6,158.53	
			For Class 54 Rating, Add	8,453.18	
			For Class 55 Rating, Add	12,595.38	
			For Class 56 Rating, Add	16,681.59	
40 05 19 00-0509	EA		42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	61,836.07	3,039.07
			For Class 52 Rating, Deduct	-6,295.46	
			For Class 54 Rating, Add	8,639.97	
			For Class 55 Rating, Add	12,873.12	
			For Class 56 Rating, Add	17,049.04	



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510	EA		42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,102.56	3,043.47
			For Class 52 Rating, Deduct	-6,434.04	
			For Class 54 Rating, Add	8,829.02	
			For Class 55 Rating, Add	13,154.22	
			For Class 56 Rating, Add	17,420.93	
40 05 19 00-0511	EA		42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,351.49	3,047.87
			For Class 52 Rating, Deduct	-6,570.69	
			For Class 54 Rating, Add	9,015.44	
			For Class 55 Rating, Add	13,431.40	
			For Class 56 Rating, Add	17,787.63	
40 05 19 00-0512	EA		42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,617.98	3,052.27
			For Class 52 Rating, Deduct	-6,709.27	
			For Class 54 Rating, Add	9,204.49	
			For Class 55 Rating, Add	13,712.50	
			For Class 56 Rating, Add	18,159.52	
40 05 19 00-0513	EA		42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,869.42	3,056.68
			For Class 52 Rating, Deduct	-6,846.19	
			For Class 54 Rating, Add	9,391.29	
			For Class 55 Rating, Add	13,990.24	
			For Class 56 Rating, Add	18,526.96	
40 05 19 00-0514	EA		42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,133.41	3,061.08
			For Class 52 Rating, Deduct	-6,984.49	
			For Class 54 Rating, Add	9,579.96	
			For Class 55 Rating, Add	14,270.78	
			For Class 56 Rating, Add	18,898.11	
40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0002)					
40 05 19 00-0516	EA		48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,081.38	3,642.47
			For Class 52 Rating, Deduct	-2,371.87	
			For Class 54 Rating, Add	3,300.60	
			For Class 55 Rating, Add	4,940.89	
			For Class 56 Rating, Add	6,559.61	
40 05 19 00-0517	EA		48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,922.57	3,646.88
			For Class 52 Rating, Deduct	-2,573.67	
			For Class 54 Rating, Add	3,575.86	
			For Class 55 Rating, Add	5,350.14	
			For Class 56 Rating, Add	7,101.04	
40 05 19 00-0518	EA		48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,761.25	3,651.28
			For Class 52 Rating, Deduct	-2,775.19	
			For Class 54 Rating, Add	3,850.74	
			For Class 55 Rating, Add	5,758.84	
			For Class 56 Rating, Add	7,641.72	
40 05 19 00-0519	EA		48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,614.99	3,655.69
			For Class 52 Rating, Deduct	-2,978.37	
			For Class 54 Rating, Add	4,127.88	
			For Class 55 Rating, Add	6,170.90	
			For Class 56 Rating, Add	8,186.84	
40 05 19 00-0520	EA		48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,456.19	3,660.09
			For Class 52 Rating, Deduct	-3,180.16	
			For Class 54 Rating, Add	4,403.14	
			For Class 55 Rating, Add	6,580.16	
			For Class 56 Rating, Add	8,728.27	
40 05 19 00-0521	EA		48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,297.38	3,664.50
			For Class 52 Rating, Deduct	-3,381.96	
			For Class 54 Rating, Add	4,678.39	
			For Class 55 Rating, Add	6,989.41	
			For Class 56 Rating, Add	9,269.69	
40 05 19 00-0522	EA		48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,148.61	3,668.90
			For Class 52 Rating, Deduct	-3,584.86	
			For Class 54 Rating, Add	4,955.16	
			For Class 55 Rating, Add	7,400.91	
			For Class 56 Rating, Add	9,814.07	
40 05 19 00-0523	EA		48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,992.31	3,673.31
			For Class 52 Rating, Deduct	-3,786.94	
			For Class 54 Rating, Add	5,230.79	
			For Class 55 Rating, Add	7,810.73	
			For Class 56 Rating, Add	10,356.24	
40 05 19 00-0524	EA		48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,830.99	3,677.71
			For Class 52 Rating, Deduct	-3,988.46	
			For Class 54 Rating, Add	5,505.67	
			For Class 55 Rating, Add	8,219.43	
			For Class 56 Rating, Add	10,896.92	
40 05 19 00-0525	EA		48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,684.73	3,682.12
			For Class 52 Rating, Deduct	-4,191.63	
			For Class 54 Rating, Add	5,782.81	
			For Class 55 Rating, Add	8,631.48	
			For Class 56 Rating, Add	11,442.04	
40 05 19 00-0526	EA		48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,525.92	3,686.52
			For Class 52 Rating, Deduct	-4,393.43	
			For Class 54 Rating, Add	6,058.07	
			For Class 55 Rating, Add	9,040.74	
			For Class 56 Rating, Add	11,983.47	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA		48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,379.66	3,690.92
			For Class 52 Rating, Deduct	-4,596.61	
			For Class 54 Rating, Add	6,335.21	
			For Class 55 Rating, Add	9,452.79	
			For Class 56 Rating, Add	12,528.59	
40 05 19 00-0528	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,218.34	3,695.32
			For Class 52 Rating, Deduct	-4,798.13	
			For Class 54 Rating, Add	6,610.09	
			For Class 55 Rating, Add	9,861.49	
			For Class 56 Rating, Add	13,069.27	
40 05 19 00-0529	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,059.53	3,699.73
			For Class 52 Rating, Deduct	-4,999.93	
			For Class 54 Rating, Add	6,885.35	
			For Class 55 Rating, Add	10,270.75	
			For Class 56 Rating, Add	13,610.70	
40 05 19 00-0530	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,913.27	3,704.13
			For Class 52 Rating, Deduct	-5,203.10	
			For Class 54 Rating, Add	7,162.49	
			For Class 55 Rating, Add	10,682.81	
			For Class 56 Rating, Add	14,155.82	
40 05 19 00-0531	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,754.46	3,708.54
			For Class 52 Rating, Deduct	-5,404.90	
			For Class 54 Rating, Add	7,437.75	
			For Class 55 Rating, Add	11,092.06	
			For Class 56 Rating, Add	14,697.24	
40 05 19 00-0532	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,593.14	3,712.94
			For Class 52 Rating, Deduct	-5,606.42	
			For Class 54 Rating, Add	7,712.63	
			For Class 55 Rating, Add	11,500.76	
			For Class 56 Rating, Add	15,237.93	
40 05 19 00-0533	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,446.88	3,717.35
			For Class 52 Rating, Deduct	-5,809.60	
			For Class 54 Rating, Add	7,989.77	
			For Class 55 Rating, Add	11,912.82	
			For Class 56 Rating, Add	15,783.05	
40 05 19 00-0534	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,288.07	3,721.75
			For Class 52 Rating, Deduct	-6,011.40	
			For Class 54 Rating, Add	8,265.03	
			For Class 55 Rating, Add	12,322.07	
			For Class 56 Rating, Add	16,324.47	
40 05 19 00-0535	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,126.75	3,726.16
			For Class 52 Rating, Deduct	-6,212.92	
			For Class 54 Rating, Add	8,539.91	
			For Class 55 Rating, Add	12,730.77	
			For Class 56 Rating, Add	16,865.16	
40 05 19 00-0536	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	63,980.48	3,730.56
			For Class 52 Rating, Deduct	-6,416.09	
			For Class 54 Rating, Add	8,817.05	
			For Class 55 Rating, Add	13,142.83	
			For Class 56 Rating, Add	17,410.28	
40 05 19 00-0537	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	65,824.20	3,734.97
			For Class 52 Rating, Deduct	-6,618.17	
			For Class 54 Rating, Add	9,092.68	
			For Class 55 Rating, Add	13,552.65	
			For Class 56 Rating, Add	17,952.45	
40 05 19 00-0538	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	67,662.88	3,739.37
			For Class 52 Rating, Deduct	-6,819.69	
			For Class 54 Rating, Add	9,367.56	
			For Class 55 Rating, Add	13,961.34	
			For Class 56 Rating, Add	18,493.13	
40 05 19 00-0539	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	69,516.61	3,743.78
			For Class 52 Rating, Deduct	-7,022.86	
			For Class 54 Rating, Add	9,644.70	
			For Class 55 Rating, Add	14,373.40	
			For Class 56 Rating, Add	19,038.25	
40 05 19 00-0540	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	71,357.81	3,748.18
			For Class 52 Rating, Deduct	-7,224.66	
			For Class 54 Rating, Add	9,919.96	
			For Class 55 Rating, Add	14,782.66	
			For Class 56 Rating, Add	19,579.67	
40 05 19 00-0541	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	73,196.49	3,752.59
			For Class 52 Rating, Deduct	-7,426.18	
			For Class 54 Rating, Add	10,194.84	
			For Class 55 Rating, Add	15,191.36	
			For Class 56 Rating, Add	20,120.36	
40 05 19 00-0542	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	75,050.23	3,756.99
			For Class 52 Rating, Deduct	-7,629.36	
			For Class 54 Rating, Add	10,471.98	
			For Class 55 Rating, Add	15,603.41	
			For Class 56 Rating, Add	20,665.48	
40 05 19 00-0543	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	76,891.41	3,761.40
			For Class 52 Rating, Deduct	-7,831.16	
			For Class 54 Rating, Add	10,747.24	
			For Class 55 Rating, Add	16,012.67	
			For Class 56 Rating, Add	21,206.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544	EA		48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	78,506.75	3,765.79
			For Class 52 Rating, Deduct	-8,008.11	
			For Class 54 Rating, Add	10,988.62	
			For Class 55 Rating, Add	16,371.56	
			For Class 56 Rating, Add	21,681.70	
40 05 19 00-0545	EA		48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	80,586.35	3,770.20
			For Class 52 Rating, Deduct	-8,236.13	
			For Class 54 Rating, Add	11,299.64	
			For Class 55 Rating, Add	16,633.98	
			For Class 56 Rating, Add	22,293.45	
40 05 19 00-0546	EA		48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	82,425.02	3,774.60
			For Class 52 Rating, Deduct	-8,437.65	
			For Class 54 Rating, Add	11,574.52	
			For Class 55 Rating, Add	17,242.68	
			For Class 56 Rating, Add	22,834.13	
40 05 19 00-0547	EA		48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	84,281.27	3,779.01
			For Class 52 Rating, Deduct	-8,641.11	
			For Class 54 Rating, Add	11,852.03	
			For Class 55 Rating, Add	17,655.29	
			For Class 56 Rating, Add	23,380.00	
40 05 19 00-0548	EA		48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	86,119.96	3,783.41
			For Class 52 Rating, Deduct	-8,842.63	
			For Class 54 Rating, Add	12,126.92	
			For Class 55 Rating, Add	18,063.99	
			For Class 56 Rating, Add	23,920.68	
40 05 19 00-0549	EA		48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	87,958.64	3,787.82
			For Class 52 Rating, Deduct	-9,044.15	
			For Class 54 Rating, Add	12,401.80	
			For Class 55 Rating, Add	18,472.69	
			For Class 56 Rating, Add	24,461.37	
40 05 19 00-0550	EA		48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	89,814.88	3,792.22
			For Class 52 Rating, Deduct	-9,247.60	
			For Class 54 Rating, Add	12,679.31	
			For Class 55 Rating, Add	18,885.31	
			For Class 56 Rating, Add	25,007.23	
40 05 19 00-0551	EA		48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	91,653.57	3,796.63
			For Class 52 Rating, Deduct	-9,449.12	
			For Class 54 Rating, Add	12,954.19	
			For Class 55 Rating, Add	19,294.00	
			For Class 56 Rating, Add	25,547.91	
40 05 19 00-0552	EA		48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	93,494.76	3,801.03
			For Class 52 Rating, Deduct	-9,650.92	
			For Class 54 Rating, Add	13,229.45	
			For Class 55 Rating, Add	19,703.26	
			For Class 56 Rating, Add	26,089.34	
40 05 19 00-0553	EA		48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	95,348.49	3,805.44
			For Class 52 Rating, Deduct	-9,854.09	
			For Class 54 Rating, Add	13,506.59	
			For Class 55 Rating, Add	20,115.32	
			For Class 56 Rating, Add	26,634.46	
40 05 19 00-0554			Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0001)		
40 05 19 00-0555			4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0556	EA		4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	732.00	201.55
			For Class 52 Rating, Deduct	-46.93	
			For Class 54 Rating, Add	67.66	
			For Class 55 Rating, Add	102.47	
			For Class 56 Rating, Add	136.85	
40 05 19 00-0557	EA		4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	802.59	205.07
			For Class 52 Rating, Deduct	-54.11	
			For Class 54 Rating, Add	77.51	
			For Class 55 Rating, Add	117.15	
			For Class 56 Rating, Add	156.29	
40 05 19 00-0558	EA		4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	873.18	208.60
			For Class 52 Rating, Deduct	-61.28	
			For Class 54 Rating, Add	87.36	
			For Class 55 Rating, Add	131.83	
			For Class 56 Rating, Add	175.73	
40 05 19 00-0559	EA		4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	943.77	212.12
			For Class 52 Rating, Deduct	-68.46	
			For Class 54 Rating, Add	97.21	
			For Class 55 Rating, Add	146.50	
			For Class 56 Rating, Add	195.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0560	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,014.36	215.64
		For Class 52 Rating, Deduct		-75.64	
		For Class 54 Rating, Add		107.07	
		For Class 55 Rating, Add		161.18	
		For Class 56 Rating, Add		214.61	
40 05 19 00-0561	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,084.95	219.17
		For Class 52 Rating, Deduct		-82.82	
		For Class 54 Rating, Add		116.92	
		For Class 55 Rating, Add		175.86	
		For Class 56 Rating, Add		234.05	
40 05 19 00-0562	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,155.53	222.69
		For Class 52 Rating, Deduct		-89.99	
		For Class 54 Rating, Add		126.77	
		For Class 55 Rating, Add		190.54	
		For Class 56 Rating, Add		253.49	
40 05 19 00-0563	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,226.12	226.21
		For Class 52 Rating, Deduct		-97.17	
		For Class 54 Rating, Add		136.62	
		For Class 55 Rating, Add		205.22	
		For Class 56 Rating, Add		272.94	
40 05 19 00-0564	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,296.71	229.74
		For Class 52 Rating, Deduct		-104.35	
		For Class 54 Rating, Add		146.47	
		For Class 55 Rating, Add		219.90	
		For Class 56 Rating, Add		292.38	
40 05 19 00-0565	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,367.30	233.26
		For Class 52 Rating, Deduct		-111.53	
		For Class 54 Rating, Add		156.32	
		For Class 55 Rating, Add		234.58	
		For Class 56 Rating, Add		311.82	
40 05 19 00-0566	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,437.90	236.78
		For Class 52 Rating, Deduct		-118.70	
		For Class 54 Rating, Add		166.17	
		For Class 55 Rating, Add		249.26	
		For Class 56 Rating, Add		331.26	
40 05 19 00-0567	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,508.48	240.31
		For Class 52 Rating, Deduct		-125.88	
		For Class 54 Rating, Add		176.03	
		For Class 55 Rating, Add		263.94	
		For Class 56 Rating, Add		350.70	
40 05 19 00-0568	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,579.07	243.83
		For Class 52 Rating, Deduct		-133.06	
		For Class 54 Rating, Add		185.88	
		For Class 55 Rating, Add		278.61	
		For Class 56 Rating, Add		370.14	
40 05 19 00-0569	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,649.66	247.35
		For Class 52 Rating, Deduct		-140.24	
		For Class 54 Rating, Add		195.73	
		For Class 55 Rating, Add		293.29	
		For Class 56 Rating, Add		389.58	
40 05 19 00-0570	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,720.25	250.88
		For Class 52 Rating, Deduct		-147.41	
		For Class 54 Rating, Add		205.58	
		For Class 55 Rating, Add		307.97	
		For Class 56 Rating, Add		409.02	
40 05 19 00-0571	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,790.84	254.40
		For Class 52 Rating, Deduct		-154.59	
		For Class 54 Rating, Add		215.43	
		For Class 55 Rating, Add		322.65	
		For Class 56 Rating, Add		428.46	
40 05 19 00-0572	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,861.43	257.93
		For Class 52 Rating, Deduct		-161.77	
		For Class 54 Rating, Add		225.28	
		For Class 55 Rating, Add		337.33	
		For Class 56 Rating, Add		447.90	
40 05 19 00-0573	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,932.01	261.45
		For Class 52 Rating, Deduct		-168.95	
		For Class 54 Rating, Add		235.14	
		For Class 55 Rating, Add		352.01	
		For Class 56 Rating, Add		467.35	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-0574	EA	4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,002.59	264.97
		For Class 52 Rating, Deduct	-176.12	
		For Class 54 Rating, Add	244.99	
		For Class 55 Rating, Add	366.69	
		For Class 56 Rating, Add	486.78	
40 05 19 00-0575	EA	4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,073.18	268.50
		For Class 52 Rating, Deduct	-183.30	
		For Class 54 Rating, Add	254.84	
		For Class 55 Rating, Add	381.36	
		For Class 56 Rating, Add	506.22	
40 05 19 00-0576	EA	4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,143.77	272.02
		For Class 52 Rating, Deduct	-190.48	
		For Class 54 Rating, Add	264.69	
		For Class 55 Rating, Add	396.04	
		For Class 56 Rating, Add	525.67	
40 05 19 00-0577	EA	4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,214.36	275.54
		For Class 52 Rating, Deduct	-197.66	
		For Class 54 Rating, Add	274.54	
		For Class 55 Rating, Add	410.72	
		For Class 56 Rating, Add	545.11	
40 05 19 00-0578	EA	4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,284.95	279.07
		For Class 52 Rating, Deduct	-204.63	
		For Class 54 Rating, Add	284.39	
		For Class 55 Rating, Add	425.40	
		For Class 56 Rating, Add	564.55	
40 05 19 00-0579	EA	4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,355.53	282.59
		For Class 52 Rating, Deduct	-212.01	
		For Class 54 Rating, Add	294.24	
		For Class 55 Rating, Add	440.08	
		For Class 56 Rating, Add	583.99	
40 05 19 00-0580	EA	4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,426.12	286.11
		For Class 52 Rating, Deduct	-219.19	
		For Class 54 Rating, Add	304.10	
		For Class 55 Rating, Add	454.76	
		For Class 56 Rating, Add	603.43	
40 05 19 00-0581	EA	4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,496.71	289.64
		For Class 52 Rating, Deduct	-226.37	
		For Class 54 Rating, Add	313.95	
		For Class 55 Rating, Add	469.44	
		For Class 56 Rating, Add	622.87	
40 05 19 00-0582	EA	4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,567.30	293.16
		For Class 52 Rating, Deduct	-233.54	
		For Class 54 Rating, Add	323.80	
		For Class 55 Rating, Add	484.12	
		For Class 56 Rating, Add	642.31	
40 05 19 00-0583	EA	4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,637.89	296.68
		For Class 52 Rating, Deduct	-240.72	
		For Class 54 Rating, Add	333.65	
		For Class 55 Rating, Add	498.79	
		For Class 56 Rating, Add	661.75	
40 05 19 00-0584	EA	4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,708.48	300.21
		For Class 52 Rating, Deduct	-247.90	
		For Class 54 Rating, Add	343.50	
		For Class 55 Rating, Add	513.47	
		For Class 56 Rating, Add	681.19	
40 05 19 00-0585	EA	4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,779.06	303.73
		For Class 52 Rating, Deduct	-255.08	
		For Class 54 Rating, Add	353.35	
		For Class 55 Rating, Add	528.15	
		For Class 56 Rating, Add	700.63	
40 05 19 00-0586	EA	4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,849.65	307.25
		For Class 52 Rating, Deduct	-262.25	
		For Class 54 Rating, Add	363.20	
		For Class 55 Rating, Add	542.83	
		For Class 56 Rating, Add	720.07	
40 05 19 00-0587	EA	4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,920.25	310.78
		For Class 52 Rating, Deduct	-269.43	
		For Class 54 Rating, Add	373.06	
		For Class 55 Rating, Add	557.51	
		For Class 56 Rating, Add	739.52	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
40 05 19 00-0588	EA	4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,990.84		314.30
		For Class 52 Rating, Deduct		-276.61		
		For Class 54 Rating, Add		382.91		
		For Class 55 Rating, Add		572.19		
		For Class 56 Rating, Add		758.96		
40 05 19 00-0589	EA	4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,061.43		317.82
		For Class 52 Rating, Deduct		-283.79		
		For Class 54 Rating, Add		392.76		
		For Class 55 Rating, Add		586.87		
		For Class 56 Rating, Add		778.40		
40 05 19 00-0590	EA	4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,132.01		321.35
		For Class 52 Rating, Deduct		-290.96		
		For Class 54 Rating, Add		402.61		
		For Class 55 Rating, Add		601.55		
		For Class 56 Rating, Add		797.84		
40 05 19 00-0591	EA	4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,202.60		324.87
		For Class 52 Rating, Deduct		-298.14		
		For Class 54 Rating, Add		412.46		
		For Class 55 Rating, Add		616.23		
		For Class 56 Rating, Add		817.28		
40 05 19 00-0592	EA	4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,273.19		328.40
		For Class 52 Rating, Deduct		-305.32		
		For Class 54 Rating, Add		422.31		
		For Class 55 Rating, Add		630.90		
		For Class 56 Rating, Add		836.72		
40 05 19 00-0593	EA	4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,343.78		331.92
		For Class 52 Rating, Deduct		-312.50		
		For Class 54 Rating, Add		432.17		
		For Class 55 Rating, Add		645.58		
		For Class 56 Rating, Add		856.16		
40 05 19 00-0594	EA	4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,414.37		335.44
		For Class 52 Rating, Deduct		-319.67		
		For Class 54 Rating, Add		442.02		
		For Class 55 Rating, Add		660.26		
		For Class 56 Rating, Add		875.60		
40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)						
40 05 19 00-0596	EA	6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		913.91		253.69
		For Class 52 Rating, Deduct		-58.25		
		For Class 54 Rating, Add		84.04		
		For Class 55 Rating, Add		127.31		
		For Class 56 Rating, Add		170.05		
40 05 19 00-0597	EA	6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		999.55		257.22
		For Class 52 Rating, Deduct		-67.08		
		For Class 54 Rating, Add		96.15		
		For Class 55 Rating, Add		145.35		
		For Class 56 Rating, Add		193.93		
40 05 19 00-0598	EA	6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,085.20		260.74
		For Class 52 Rating, Deduct		-75.92		
		For Class 54 Rating, Add		108.26		
		For Class 55 Rating, Add		163.38		
		For Class 56 Rating, Add		217.81		
40 05 19 00-0599	EA	6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,170.86		264.26
		For Class 52 Rating, Deduct		-84.75		
		For Class 54 Rating, Add		120.37		
		For Class 55 Rating, Add		181.42		
		For Class 56 Rating, Add		241.70		
40 05 19 00-0600	EA	6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,256.50		267.79
		For Class 52 Rating, Deduct		-93.58		
		For Class 54 Rating, Add		132.48		
		For Class 55 Rating, Add		199.46		
		For Class 56 Rating, Add		265.58		
40 05 19 00-0601	EA	6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,342.15		271.31
		For Class 52 Rating, Deduct		-102.42		
		For Class 54 Rating, Add		144.59		
		For Class 55 Rating, Add		217.49		
		For Class 56 Rating, Add		289.46		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,427.79	274.83
			For Class 52 Rating, Deduct	-111.25	
			For Class 54 Rating, Add	156.70	
			For Class 55 Rating, Add	235.53	
			For Class 56 Rating, Add	313.35	
40 05 19 00-0603	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,513.44	278.36
			For Class 52 Rating, Deduct	-120.08	
			For Class 54 Rating, Add	168.81	
			For Class 55 Rating, Add	253.57	
			For Class 56 Rating, Add	337.23	
40 05 19 00-0604	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,599.08	281.88
			For Class 52 Rating, Deduct	-128.92	
			For Class 54 Rating, Add	180.92	
			For Class 55 Rating, Add	271.60	
			For Class 56 Rating, Add	361.11	
40 05 19 00-0605	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,684.73	285.40
			For Class 52 Rating, Deduct	-137.75	
			For Class 54 Rating, Add	193.03	
			For Class 55 Rating, Add	289.64	
			For Class 56 Rating, Add	384.99	
40 05 19 00-0606	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,770.38	288.93
			For Class 52 Rating, Deduct	-146.59	
			For Class 54 Rating, Add	205.14	
			For Class 55 Rating, Add	307.68	
			For Class 56 Rating, Add	408.88	
40 05 19 00-0607	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,856.01	292.45
			For Class 52 Rating, Deduct	-155.42	
			For Class 54 Rating, Add	217.25	
			For Class 55 Rating, Add	325.71	
			For Class 56 Rating, Add	432.76	
40 05 19 00-0608	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,941.66	295.97
			For Class 52 Rating, Deduct	-164.25	
			For Class 54 Rating, Add	229.36	
			For Class 55 Rating, Add	343.75	
			For Class 56 Rating, Add	456.64	
40 05 19 00-0609	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,027.31	299.50
			For Class 52 Rating, Deduct	-173.09	
			For Class 54 Rating, Add	241.47	
			For Class 55 Rating, Add	361.79	
			For Class 56 Rating, Add	480.52	
40 05 19 00-0610	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,112.96	303.02
			For Class 52 Rating, Deduct	-181.92	
			For Class 54 Rating, Add	253.58	
			For Class 55 Rating, Add	379.82	
			For Class 56 Rating, Add	504.41	
40 05 19 00-0611	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,198.60	306.55
			For Class 52 Rating, Deduct	-190.75	
			For Class 54 Rating, Add	265.69	
			For Class 55 Rating, Add	397.86	
			For Class 56 Rating, Add	528.29	
40 05 19 00-0612	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,284.25	310.07
			For Class 52 Rating, Deduct	-199.59	
			For Class 54 Rating, Add	277.80	
			For Class 55 Rating, Add	415.90	
			For Class 56 Rating, Add	552.17	
40 05 19 00-0613	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,369.89	313.59
			For Class 52 Rating, Deduct	-208.42	
			For Class 54 Rating, Add	289.91	
			For Class 55 Rating, Add	433.93	
			For Class 56 Rating, Add	576.06	
40 05 19 00-0614	EA		6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,455.54	317.12
			For Class 52 Rating, Deduct	-217.26	
			For Class 54 Rating, Add	302.02	
			For Class 55 Rating, Add	451.97	
			For Class 56 Rating, Add	599.94	
40 05 19 00-0615	EA		6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,541.18	320.64
			For Class 52 Rating, Deduct	-226.09	
			For Class 54 Rating, Add	314.13	
			For Class 55 Rating, Add	470.00	
			For Class 56 Rating, Add	623.82	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-0616	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,626.83		324.16
		For Class 52 Rating, Deduct	-234.92		
		For Class 54 Rating, Add	326.24		
		For Class 55 Rating, Add	488.04		
		For Class 56 Rating, Add	647.70		
40 05 19 00-0617	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,712.48		327.69
		For Class 52 Rating, Deduct	-243.76		
		For Class 54 Rating, Add	338.36		
		For Class 55 Rating, Add	506.08		
		For Class 56 Rating, Add	671.59		
40 05 19 00-0618	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,798.12		331.21
		For Class 52 Rating, Deduct	-252.59		
		For Class 54 Rating, Add	350.46		
		For Class 55 Rating, Add	524.11		
		For Class 56 Rating, Add	695.47		
40 05 19 00-0619	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,883.76		334.73
		For Class 52 Rating, Deduct	-261.42		
		For Class 54 Rating, Add	362.57		
		For Class 55 Rating, Add	542.15		
		For Class 56 Rating, Add	719.35		
40 05 19 00-0620	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,969.41		338.26
		For Class 52 Rating, Deduct	-270.26		
		For Class 54 Rating, Add	374.69		
		For Class 55 Rating, Add	560.19		
		For Class 56 Rating, Add	743.24		
40 05 19 00-0621	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,055.07		341.78
		For Class 52 Rating, Deduct	-279.09		
		For Class 54 Rating, Add	386.80		
		For Class 55 Rating, Add	578.23		
		For Class 56 Rating, Add	767.12		
40 05 19 00-0622	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,140.71		345.30
		For Class 52 Rating, Deduct	-287.93		
		For Class 54 Rating, Add	398.90		
		For Class 55 Rating, Add	596.26		
		For Class 56 Rating, Add	791.00		
40 05 19 00-0623	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,226.36		348.83
		For Class 52 Rating, Deduct	-296.76		
		For Class 54 Rating, Add	411.02		
		For Class 55 Rating, Add	614.30		
		For Class 56 Rating, Add	814.88		
40 05 19 00-0624	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,312.01		352.35
		For Class 52 Rating, Deduct	-305.59		
		For Class 54 Rating, Add	423.13		
		For Class 55 Rating, Add	632.34		
		For Class 56 Rating, Add	838.77		
40 05 19 00-0625	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,397.64		355.87
		For Class 52 Rating, Deduct	-314.43		
		For Class 54 Rating, Add	435.24		
		For Class 55 Rating, Add	650.37		
		For Class 56 Rating, Add	862.65		
40 05 19 00-0626	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,483.29		359.40
		For Class 52 Rating, Deduct	-323.26		
		For Class 54 Rating, Add	447.35		
		For Class 55 Rating, Add	668.41		
		For Class 56 Rating, Add	886.53		
40 05 19 00-0627	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,568.94		362.92
		For Class 52 Rating, Deduct	-332.10		
		For Class 54 Rating, Add	459.46		
		For Class 55 Rating, Add	686.45		
		For Class 56 Rating, Add	910.42		
40 05 19 00-0628	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,654.59		366.44
		For Class 52 Rating, Deduct	-340.93		
		For Class 54 Rating, Add	471.57		
		For Class 55 Rating, Add	704.48		
		For Class 56 Rating, Add	934.30		
40 05 19 00-0629	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,740.23		369.97
		For Class 52 Rating, Deduct	-349.76		
		For Class 54 Rating, Add	483.68		
		For Class 55 Rating, Add	722.52		
		For Class 56 Rating, Add	958.18		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630	EA		6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,825.87	373.49
			For Class 52 Rating, Deduct	-358.60	
			For Class 54 Rating, Add	495.79	
			For Class 55 Rating, Add	740.55	
			For Class 56 Rating, Add	982.06	
40 05 19 00-0631	EA		6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,911.52	377.02
			For Class 52 Rating, Deduct	-367.43	
			For Class 54 Rating, Add	507.90	
			For Class 55 Rating, Add	758.59	
			For Class 56 Rating, Add	1,005.95	
40 05 19 00-0632	EA		6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,997.16	380.54
			For Class 52 Rating, Deduct	-376.26	
			For Class 54 Rating, Add	520.01	
			For Class 55 Rating, Add	776.63	
			For Class 56 Rating, Add	1,029.83	
40 05 19 00-0633	EA		6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,082.81	384.06
			For Class 52 Rating, Deduct	-385.10	
			For Class 54 Rating, Add	532.12	
			For Class 55 Rating, Add	794.66	
			For Class 56 Rating, Add	1,053.71	
40 05 19 00-0634	EA		6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,168.46	387.60
			For Class 52 Rating, Deduct	-393.93	
			For Class 54 Rating, Add	544.23	
			For Class 55 Rating, Add	812.70	
			For Class 56 Rating, Add	1,077.60	
40 05 19 00-0635			8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0636	EA		8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,264.12	324.16
			For Class 52 Rating, Deduct	-85.03	
			For Class 54 Rating, Add	121.84	
			For Class 55 Rating, Add	184.16	
			For Class 56 Rating, Add	245.70	
40 05 19 00-0637	EA		8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,379.88	327.69
			For Class 52 Rating, Deduct	-97.17	
			For Class 54 Rating, Add	138.47	
			For Class 55 Rating, Add	208.91	
			For Class 56 Rating, Add	278.47	
40 05 19 00-0638	EA		8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,495.64	331.21
			For Class 52 Rating, Deduct	-109.32	
			For Class 54 Rating, Add	155.09	
			For Class 55 Rating, Add	233.66	
			For Class 56 Rating, Add	311.24	
40 05 19 00-0639	EA		8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,611.39	334.73
			For Class 52 Rating, Deduct	-121.46	
			For Class 54 Rating, Add	171.72	
			For Class 55 Rating, Add	258.41	
			For Class 56 Rating, Add	344.00	
40 05 19 00-0640	EA		8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,727.16	338.26
			For Class 52 Rating, Deduct	-133.61	
			For Class 54 Rating, Add	188.35	
			For Class 55 Rating, Add	283.17	
			For Class 56 Rating, Add	376.77	
40 05 19 00-0641	EA		8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,842.93	341.78
			For Class 52 Rating, Deduct	-145.76	
			For Class 54 Rating, Add	204.97	
			For Class 55 Rating, Add	307.92	
			For Class 56 Rating, Add	409.54	
40 05 19 00-0642	EA		8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,958.69	345.30
			For Class 52 Rating, Deduct	-157.90	
			For Class 54 Rating, Add	221.60	
			For Class 55 Rating, Add	332.67	
			For Class 56 Rating, Add	442.30	
40 05 19 00-0643	EA		8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,074.45	348.83
			For Class 52 Rating, Deduct	-170.05	
			For Class 54 Rating, Add	238.23	
			For Class 55 Rating, Add	357.42	
			For Class 56 Rating, Add	475.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
40 05 19 00-0644	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,190.22		352.35
		For Class 52 Rating, Deduct		-182.20		
		For Class 54 Rating, Add		254.86		
		For Class 55 Rating, Add		382.18		
		For Class 56 Rating, Add		507.84		
40 05 19 00-0645	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,305.97		355.87
		For Class 52 Rating, Deduct		-194.34		
		For Class 54 Rating, Add		271.48		
		For Class 55 Rating, Add		406.93		
		For Class 56 Rating, Add		540.61		
40 05 19 00-0646	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,421.73		359.40
		For Class 52 Rating, Deduct		-206.49		
		For Class 54 Rating, Add		288.11		
		For Class 55 Rating, Add		431.68		
		For Class 56 Rating, Add		573.37		
40 05 19 00-0647	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,537.49		362.92
		For Class 52 Rating, Deduct		-218.64		
		For Class 54 Rating, Add		304.74		
		For Class 55 Rating, Add		456.43		
		For Class 56 Rating, Add		606.14		
40 05 19 00-0648	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,653.26		366.44
		For Class 52 Rating, Deduct		-230.78		
		For Class 54 Rating, Add		321.37		
		For Class 55 Rating, Add		481.19		
		For Class 56 Rating, Add		638.91		
40 05 19 00-0649	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,769.02		369.97
		For Class 52 Rating, Deduct		-242.93		
		For Class 54 Rating, Add		337.99		
		For Class 55 Rating, Add		505.94		
		For Class 56 Rating, Add		671.67		
40 05 19 00-0650	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,884.77		373.49
		For Class 52 Rating, Deduct		-255.08		
		For Class 54 Rating, Add		354.62		
		For Class 55 Rating, Add		530.69		
		For Class 56 Rating, Add		704.44		
40 05 19 00-0651	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,000.53		377.02
		For Class 52 Rating, Deduct		-267.22		
		For Class 54 Rating, Add		371.25		
		For Class 55 Rating, Add		555.44		
		For Class 56 Rating, Add		737.21		
40 05 19 00-0652	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,116.30		380.54
		For Class 52 Rating, Deduct		-279.37		
		For Class 54 Rating, Add		387.88		
		For Class 55 Rating, Add		580.20		
		For Class 56 Rating, Add		769.97		
40 05 19 00-0653	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,232.06		384.06
		For Class 52 Rating, Deduct		-291.52		
		For Class 54 Rating, Add		404.50		
		For Class 55 Rating, Add		604.95		
		For Class 56 Rating, Add		802.74		
40 05 19 00-0654	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,347.82		387.60
		For Class 52 Rating, Deduct		-303.66		
		For Class 54 Rating, Add		421.13		
		For Class 55 Rating, Add		629.70		
		For Class 56 Rating, Add		835.51		
40 05 19 00-0655	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,463.58		391.12
		For Class 52 Rating, Deduct		-315.81		
		For Class 54 Rating, Add		437.76		
		For Class 55 Rating, Add		654.45		
		For Class 56 Rating, Add		868.27		
40 05 19 00-0656	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,579.33		394.64
		For Class 52 Rating, Deduct		-327.95		
		For Class 54 Rating, Add		454.39		
		For Class 55 Rating, Add		679.20		
		For Class 56 Rating, Add		901.04		
40 05 19 00-0657	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,695.10		398.17
		For Class 52 Rating, Deduct		-340.10		
		For Class 54 Rating, Add		471.01		
		For Class 55 Rating, Add		703.96		
		For Class 56 Rating, Add		933.81		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658	EA		8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,810.86	401.69
			For Class 52 Rating, Deduct	-352.25	
			For Class 54 Rating, Add	487.64	
			For Class 55 Rating, Add	728.71	
			For Class 56 Rating, Add	966.57	
40 05 19 00-0659	EA		8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,926.62	405.21
			For Class 52 Rating, Deduct	-364.39	
			For Class 54 Rating, Add	504.27	
			For Class 55 Rating, Add	753.46	
			For Class 56 Rating, Add	999.34	
40 05 19 00-0660	EA		8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,042.38	408.74
			For Class 52 Rating, Deduct	-376.54	
			For Class 54 Rating, Add	520.89	
			For Class 55 Rating, Add	778.21	
			For Class 56 Rating, Add	1,032.11	
40 05 19 00-0661	EA		8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,158.15	412.26
			For Class 52 Rating, Deduct	-388.69	
			For Class 54 Rating, Add	537.52	
			For Class 55 Rating, Add	802.97	
			For Class 56 Rating, Add	1,064.88	
40 05 19 00-0662	EA		8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,273.91	415.78
			For Class 52 Rating, Deduct	-400.83	
			For Class 54 Rating, Add	554.15	
			For Class 55 Rating, Add	827.72	
			For Class 56 Rating, Add	1,097.64	
40 05 19 00-0663	EA		8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,389.67	419.31
			For Class 52 Rating, Deduct	-412.98	
			For Class 54 Rating, Add	570.78	
			For Class 55 Rating, Add	852.47	
			For Class 56 Rating, Add	1,130.41	
40 05 19 00-0664	EA		8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,505.43	422.83
			For Class 52 Rating, Deduct	-425.13	
			For Class 54 Rating, Add	587.40	
			For Class 55 Rating, Add	877.22	
			For Class 56 Rating, Add	1,163.17	
40 05 19 00-0665	EA		8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,621.20	426.35
			For Class 52 Rating, Deduct	-437.27	
			For Class 54 Rating, Add	604.03	
			For Class 55 Rating, Add	901.98	
			For Class 56 Rating, Add	1,195.94	
40 05 19 00-0666	EA		8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,736.96	429.88
			For Class 52 Rating, Deduct	-449.42	
			For Class 54 Rating, Add	620.66	
			For Class 55 Rating, Add	926.73	
			For Class 56 Rating, Add	1,228.71	
40 05 19 00-0667	EA		8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,852.71	433.40
			For Class 52 Rating, Deduct	-461.57	
			For Class 54 Rating, Add	637.29	
			For Class 55 Rating, Add	951.48	
			For Class 56 Rating, Add	1,261.47	
40 05 19 00-0668	EA		8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,968.47	436.93
			For Class 52 Rating, Deduct	-473.71	
			For Class 54 Rating, Add	653.91	
			For Class 55 Rating, Add	976.23	
			For Class 56 Rating, Add	1,294.24	
40 05 19 00-0669	EA		8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,084.24	440.45
			For Class 52 Rating, Deduct	-485.86	
			For Class 54 Rating, Add	670.54	
			For Class 55 Rating, Add	1,000.98	
			For Class 56 Rating, Add	1,327.01	
40 05 19 00-0670	EA		8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,200.00	443.97
			For Class 52 Rating, Deduct	-498.01	
			For Class 54 Rating, Add	687.17	
			For Class 55 Rating, Add	1,025.74	
			For Class 56 Rating, Add	1,359.78	
40 05 19 00-0671	EA		8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,315.76	447.50
			For Class 52 Rating, Deduct	-510.15	
			For Class 54 Rating, Add	703.80	
			For Class 55 Rating, Add	1,050.49	
			For Class 56 Rating, Add	1,392.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-0672	EA	8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,431.52	451.02
		For Class 52 Rating, Deduct		-522.30	
		For Class 54 Rating, Add		720.42	
		For Class 55 Rating, Add		1,075.24	
		For Class 56 Rating, Add		1,425.31	
40 05 19 00-0673	EA	8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,547.28	454.54
		For Class 52 Rating, Deduct		-534.44	
		For Class 54 Rating, Add		737.05	
		For Class 55 Rating, Add		1,099.99	
		For Class 56 Rating, Add		1,458.08	
40 05 19 00-0674	EA	8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,663.04	458.07
		For Class 52 Rating, Deduct		-546.59	
		For Class 54 Rating, Add		753.68	
		For Class 55 Rating, Add		1,124.75	
		For Class 56 Rating, Add		1,490.84	
40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0676	EA	10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,586.71	394.64
		For Class 52 Rating, Deduct		-108.77	
		For Class 54 Rating, Add		155.49	
		For Class 55 Rating, Add		234.85	
		For Class 56 Rating, Add		313.22	
40 05 19 00-0677	EA	10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,737.61	398.17
		For Class 52 Rating, Deduct		-124.78	
		For Class 54 Rating, Add		177.39	
		For Class 55 Rating, Add		267.44	
		For Class 56 Rating, Add		356.35	
40 05 19 00-0678	EA	10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,888.51	401.69
		For Class 52 Rating, Deduct		-140.79	
		For Class 54 Rating, Add		199.29	
		For Class 55 Rating, Add		300.02	
		For Class 56 Rating, Add		399.48	
40 05 19 00-0679	EA	10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,039.40	405.21
		For Class 52 Rating, Deduct		-156.80	
		For Class 54 Rating, Add		221.18	
		For Class 55 Rating, Add		332.61	
		For Class 56 Rating, Add		442.61	
40 05 19 00-0680	EA	10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,190.30	408.74
		For Class 52 Rating, Deduct		-172.81	
		For Class 54 Rating, Add		243.08	
		For Class 55 Rating, Add		365.20	
		For Class 56 Rating, Add		485.74	
40 05 19 00-0681	EA	10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,341.20	412.26
		For Class 52 Rating, Deduct		-188.82	
		For Class 54 Rating, Add		264.98	
		For Class 55 Rating, Add		397.79	
		For Class 56 Rating, Add		528.87	
40 05 19 00-0682	EA	10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,492.09	415.78
		For Class 52 Rating, Deduct		-204.83	
		For Class 54 Rating, Add		286.88	
		For Class 55 Rating, Add		430.37	
		For Class 56 Rating, Add		572.00	
40 05 19 00-0683	EA	10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,642.99	419.31
		For Class 52 Rating, Deduct		-220.84	
		For Class 54 Rating, Add		308.78	
		For Class 55 Rating, Add		462.96	
		For Class 56 Rating, Add		615.14	
40 05 19 00-0684	EA	10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,793.89	422.83
		For Class 52 Rating, Deduct		-236.86	
		For Class 54 Rating, Add		330.67	
		For Class 55 Rating, Add		495.55	
		For Class 56 Rating, Add		658.27	
40 05 19 00-0685	EA	10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,944.78	426.35
		For Class 52 Rating, Deduct		-252.87	
		For Class 54 Rating, Add		352.57	
		For Class 55 Rating, Add		528.13	
		For Class 56 Rating, Add		701.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686	EA	10"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,095.68	429.88
			For Class 52 Rating, Deduct	-268.88	
			For Class 54 Rating, Add	374.47	
			For Class 55 Rating, Add	560.72	
			For Class 56 Rating, Add	744.53	
40 05 19 00-0687	EA	10"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,246.57	433.40
			For Class 52 Rating, Deduct	-284.89	
			For Class 54 Rating, Add	396.37	
			For Class 55 Rating, Add	593.31	
			For Class 56 Rating, Add	787.66	
40 05 19 00-0688	EA	10"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,397.46	436.93
			For Class 52 Rating, Deduct	-300.90	
			For Class 54 Rating, Add	418.26	
			For Class 55 Rating, Add	625.90	
			For Class 56 Rating, Add	830.79	
40 05 19 00-0689	EA	10"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,548.36	440.45
			For Class 52 Rating, Deduct	-316.91	
			For Class 54 Rating, Add	440.16	
			For Class 55 Rating, Add	658.48	
			For Class 56 Rating, Add	873.93	
40 05 19 00-0690	EA	10"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,699.26	443.97
			For Class 52 Rating, Deduct	-332.92	
			For Class 54 Rating, Add	462.06	
			For Class 55 Rating, Add	691.07	
			For Class 56 Rating, Add	917.06	
40 05 19 00-0691	EA	10"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	3,850.15	447.50
			For Class 52 Rating, Deduct	-348.93	
			For Class 54 Rating, Add	483.96	
			For Class 55 Rating, Add	723.66	
			For Class 56 Rating, Add	960.19	
40 05 19 00-0692	EA	10"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,001.05	451.02
			For Class 52 Rating, Deduct	-364.95	
			For Class 54 Rating, Add	505.85	
			For Class 55 Rating, Add	756.25	
			For Class 56 Rating, Add	1,003.32	
40 05 19 00-0693	EA	10"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,151.94	454.54
			For Class 52 Rating, Deduct	-380.96	
			For Class 54 Rating, Add	527.75	
			For Class 55 Rating, Add	788.83	
			For Class 56 Rating, Add	1,046.45	
40 05 19 00-0694	EA	10"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,302.83	458.07
			For Class 52 Rating, Deduct	-396.97	
			For Class 54 Rating, Add	549.65	
			For Class 55 Rating, Add	821.42	
			For Class 56 Rating, Add	1,089.58	
40 05 19 00-0695	EA	10"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,453.73	461.59
			For Class 52 Rating, Deduct	-412.98	
			For Class 54 Rating, Add	571.55	
			For Class 55 Rating, Add	854.01	
			For Class 56 Rating, Add	1,132.71	
40 05 19 00-0696	EA	10"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,604.63	465.11
			For Class 52 Rating, Deduct	-428.99	
			For Class 54 Rating, Add	593.44	
			For Class 55 Rating, Add	886.60	
			For Class 56 Rating, Add	1,175.85	
40 05 19 00-0697	EA	10"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,755.53	468.64
			For Class 52 Rating, Deduct	-445.00	
			For Class 54 Rating, Add	615.34	
			For Class 55 Rating, Add	919.18	
			For Class 56 Rating, Add	1,218.98	
40 05 19 00-0698	EA	10"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	4,906.42	472.16
			For Class 52 Rating, Deduct	-461.01	
			For Class 54 Rating, Add	637.24	
			For Class 55 Rating, Add	951.77	
			For Class 56 Rating, Add	1,262.11	
40 05 19 00-0699	EA	10"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe.....	5,057.31	475.68
			For Class 52 Rating, Deduct	-477.02	
			For Class 54 Rating, Add	659.14	
			For Class 55 Rating, Add	984.36	
			For Class 56 Rating, Add	1,305.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0700	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,208.21	479.21
		For Class 52 Rating, Deduct		-493.04	
		For Class 54 Rating, Add		681.04	
		For Class 55 Rating, Add		1,016.94	
		For Class 56 Rating, Add		1,348.37	
40 05 19 00-0701	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,359.10	482.73
		For Class 52 Rating, Deduct		-509.05	
		For Class 54 Rating, Add		702.93	
		For Class 55 Rating, Add		1,049.53	
		For Class 56 Rating, Add		1,391.50	
40 05 19 00-0702	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,510.00	486.25
		For Class 52 Rating, Deduct		-525.06	
		For Class 54 Rating, Add		724.83	
		For Class 55 Rating, Add		1,082.12	
		For Class 56 Rating, Add		1,434.63	
40 05 19 00-0703	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,660.90	489.78
		For Class 52 Rating, Deduct		-541.07	
		For Class 54 Rating, Add		746.73	
		For Class 55 Rating, Add		1,114.71	
		For Class 56 Rating, Add		1,477.77	
40 05 19 00-0704	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,811.80	493.30
		For Class 52 Rating, Deduct		-557.08	
		For Class 54 Rating, Add		768.62	
		For Class 55 Rating, Add		1,147.29	
		For Class 56 Rating, Add		1,520.90	
40 05 19 00-0705	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,962.69	496.82
		For Class 52 Rating, Deduct		-573.09	
		For Class 54 Rating, Add		790.52	
		For Class 55 Rating, Add		1,179.88	
		For Class 56 Rating, Add		1,564.03	
40 05 19 00-0706	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,113.59	500.35
		For Class 52 Rating, Deduct		-589.10	
		For Class 54 Rating, Add		812.42	
		For Class 55 Rating, Add		1,212.47	
		For Class 56 Rating, Add		1,607.16	
40 05 19 00-0707	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,264.48	503.87
		For Class 52 Rating, Deduct		-605.11	
		For Class 54 Rating, Add		834.32	
		For Class 55 Rating, Add		1,245.05	
		For Class 56 Rating, Add		1,650.29	
40 05 19 00-0708	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,415.38	507.40
		For Class 52 Rating, Deduct		-621.13	
		For Class 54 Rating, Add		856.22	
		For Class 55 Rating, Add		1,277.64	
		For Class 56 Rating, Add		1,693.42	
40 05 19 00-0709	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,566.28	510.92
		For Class 52 Rating, Deduct		-637.14	
		For Class 54 Rating, Add		878.11	
		For Class 55 Rating, Add		1,310.23	
		For Class 56 Rating, Add		1,736.56	
40 05 19 00-0710	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,717.16	514.44
		For Class 52 Rating, Deduct		-653.15	
		For Class 54 Rating, Add		900.01	
		For Class 55 Rating, Add		1,342.82	
		For Class 56 Rating, Add		1,779.68	
40 05 19 00-0711	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,868.06	517.97
		For Class 52 Rating, Deduct		-669.16	
		For Class 54 Rating, Add		921.91	
		For Class 55 Rating, Add		1,375.40	
		For Class 56 Rating, Add		1,822.82	
40 05 19 00-0712	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,018.96	521.49
		For Class 52 Rating, Deduct		-685.17	
		For Class 54 Rating, Add		943.81	
		For Class 55 Rating, Add		1,407.99	
		For Class 56 Rating, Add		1,865.95	
40 05 19 00-0713	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,169.85	525.01
		For Class 52 Rating, Deduct		-701.18	
		For Class 54 Rating, Add		965.70	
		For Class 55 Rating, Add		1,440.58	
		For Class 56 Rating, Add		1,909.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714	EA		10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,320.75	528.54
			For Class 52 Rating, Deduct	-717.19	
			For Class 54 Rating, Add	987.60	
			For Class 55 Rating, Add	1,473.17	
			For Class 56 Rating, Add	1,952.21	
40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0716	EA		12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,057.44	493.30
			For Class 52 Rating, Deduct	-144.10	
			For Class 54 Rating, Add	205.47	
			For Class 55 Rating, Add	310.07	
			For Class 56 Rating, Add	413.36	
40 05 19 00-0717	EA		12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,245.97	496.82
			For Class 52 Rating, Deduct	-164.25	
			For Class 54 Rating, Add	233.01	
			For Class 55 Rating, Add	351.05	
			For Class 56 Rating, Add	467.60	
40 05 19 00-0718	EA		12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,434.51	500.35
			For Class 52 Rating, Deduct	-184.41	
			For Class 54 Rating, Add	260.56	
			For Class 55 Rating, Add	392.03	
			For Class 56 Rating, Add	521.83	
40 05 19 00-0719	EA		12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,623.05	503.87
			For Class 52 Rating, Deduct	-204.56	
			For Class 54 Rating, Add	288.10	
			For Class 55 Rating, Add	433.02	
			For Class 56 Rating, Add	576.07	
40 05 19 00-0720	EA		12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,811.59	507.40
			For Class 52 Rating, Deduct	-224.71	
			For Class 54 Rating, Add	315.65	
			For Class 55 Rating, Add	474.00	
			For Class 56 Rating, Add	630.31	
40 05 19 00-0721	EA		12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,000.14	510.92
			For Class 52 Rating, Deduct	-244.86	
			For Class 54 Rating, Add	343.19	
			For Class 55 Rating, Add	514.98	
			For Class 56 Rating, Add	684.54	
40 05 19 00-0722	EA		12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,188.67	514.44
			For Class 52 Rating, Deduct	-265.01	
			For Class 54 Rating, Add	370.74	
			For Class 55 Rating, Add	555.96	
			For Class 56 Rating, Add	738.78	
40 05 19 00-0723	EA		12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,377.21	517.97
			For Class 52 Rating, Deduct	-285.17	
			For Class 54 Rating, Add	398.28	
			For Class 55 Rating, Add	596.94	
			For Class 56 Rating, Add	793.02	
40 05 19 00-0724	EA		12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,565.75	521.49
			For Class 52 Rating, Deduct	-305.32	
			For Class 54 Rating, Add	425.82	
			For Class 55 Rating, Add	637.93	
			For Class 56 Rating, Add	847.25	
40 05 19 00-0725	EA		12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,754.29	525.01
			For Class 52 Rating, Deduct	-325.47	
			For Class 54 Rating, Add	453.37	
			For Class 55 Rating, Add	678.91	
			For Class 56 Rating, Add	901.49	
40 05 19 00-0726	EA		12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,942.83	528.54
			For Class 52 Rating, Deduct	-345.62	
			For Class 54 Rating, Add	480.91	
			For Class 55 Rating, Add	719.89	
			For Class 56 Rating, Add	955.73	
40 05 19 00-0727	EA		12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,131.37	532.06
			For Class 52 Rating, Deduct	-365.77	
			For Class 54 Rating, Add	508.46	
			For Class 55 Rating, Add	760.87	
			For Class 56 Rating, Add	1,009.96	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-0728	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,319.90		535.58
		For Class 52 Rating, Deduct		-385.93		
		For Class 54 Rating, Add		536.00		
		For Class 55 Rating, Add		801.85		
		For Class 56 Rating, Add		1,064.20		
40 05 19 00-0729	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,508.44		539.11
		For Class 52 Rating, Deduct		-406.08		
		For Class 54 Rating, Add		563.54		
		For Class 55 Rating, Add		842.83		
		For Class 56 Rating, Add		1,118.43		
40 05 19 00-0730	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,696.98		542.63
		For Class 52 Rating, Deduct		-426.23		
		For Class 54 Rating, Add		591.09		
		For Class 55 Rating, Add		883.82		
		For Class 56 Rating, Add		1,172.67		
40 05 19 00-0731	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,885.52		546.15
		For Class 52 Rating, Deduct		-446.38		
		For Class 54 Rating, Add		618.63		
		For Class 55 Rating, Add		924.80		
		For Class 56 Rating, Add		1,226.91		
40 05 19 00-0732	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,074.06		549.68
		For Class 52 Rating, Deduct		-466.53		
		For Class 54 Rating, Add		646.18		
		For Class 55 Rating, Add		965.78		
		For Class 56 Rating, Add		1,281.14		
40 05 19 00-0733	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,262.60		553.20
		For Class 52 Rating, Deduct		-486.69		
		For Class 54 Rating, Add		673.72		
		For Class 55 Rating, Add		1,006.76		
		For Class 56 Rating, Add		1,335.38		
40 05 19 00-0734	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,451.14		556.72
		For Class 52 Rating, Deduct		-506.84		
		For Class 54 Rating, Add		701.27		
		For Class 55 Rating, Add		1,047.75		
		For Class 56 Rating, Add		1,389.62		
40 05 19 00-0735	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,639.68		560.25
		For Class 52 Rating, Deduct		-526.99		
		For Class 54 Rating, Add		728.81		
		For Class 55 Rating, Add		1,088.73		
		For Class 56 Rating, Add		1,443.85		
40 05 19 00-0736	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,828.22		563.77
		For Class 52 Rating, Deduct		-547.14		
		For Class 54 Rating, Add		756.35		
		For Class 55 Rating, Add		1,129.71		
		For Class 56 Rating, Add		1,498.09		
40 05 19 00-0737	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,016.77		567.29
		For Class 52 Rating, Deduct		-567.30		
		For Class 54 Rating, Add		783.90		
		For Class 55 Rating, Add		1,170.69		
		For Class 56 Rating, Add		1,552.33		
40 05 19 00-0738	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,205.31		570.82
		For Class 52 Rating, Deduct		-587.45		
		For Class 54 Rating, Add		811.44		
		For Class 55 Rating, Add		1,211.67		
		For Class 56 Rating, Add		1,606.56		
40 05 19 00-0739	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,393.85		574.34
		For Class 52 Rating, Deduct		-607.60		
		For Class 54 Rating, Add		838.99		
		For Class 55 Rating, Add		1,252.65		
		For Class 56 Rating, Add		1,660.80		
40 05 19 00-0740	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,582.38		577.87
		For Class 52 Rating, Deduct		-627.75		
		For Class 54 Rating, Add		866.53		
		For Class 55 Rating, Add		1,293.64		
		For Class 56 Rating, Add		1,715.03		
40 05 19 00-0741	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,770.92		581.39
		For Class 52 Rating, Deduct		-647.90		
		For Class 54 Rating, Add		894.08		
		For Class 55 Rating, Add		1,334.62		
		For Class 56 Rating, Add		1,769.27		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-0742	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,959.46	584.91
		For Class 52 Rating, Deduct	-668.06	
		For Class 54 Rating, Add	921.62	
		For Class 55 Rating, Add	1,375.60	
		For Class 56 Rating, Add	1,823.51	
40 05 19 00-0743	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,148.00	588.44
		For Class 52 Rating, Deduct	-688.21	
		For Class 54 Rating, Add	949.16	
		For Class 55 Rating, Add	1,416.58	
		For Class 56 Rating, Add	1,877.74	
40 05 19 00-0744	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,336.54	591.96
		For Class 52 Rating, Deduct	-708.36	
		For Class 54 Rating, Add	976.71	
		For Class 55 Rating, Add	1,457.56	
		For Class 56 Rating, Add	1,931.98	
40 05 19 00-0745	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,525.07	595.48
		For Class 52 Rating, Deduct	-728.51	
		For Class 54 Rating, Add	1,004.25	
		For Class 55 Rating, Add	1,498.54	
		For Class 56 Rating, Add	1,986.22	
40 05 19 00-0746	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,713.62	599.01
		For Class 52 Rating, Deduct	-748.66	
		For Class 54 Rating, Add	1,031.80	
		For Class 55 Rating, Add	1,539.53	
		For Class 56 Rating, Add	2,040.45	
40 05 19 00-0747	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,902.16	602.53
		For Class 52 Rating, Deduct	-768.82	
		For Class 54 Rating, Add	1,059.34	
		For Class 55 Rating, Add	1,580.51	
		For Class 56 Rating, Add	2,094.69	
40 05 19 00-0748	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,090.70	606.05
		For Class 52 Rating, Deduct	-788.97	
		For Class 54 Rating, Add	1,086.89	
		For Class 55 Rating, Add	1,621.49	
		For Class 56 Rating, Add	2,148.93	
40 05 19 00-0749	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,279.24	609.58
		For Class 52 Rating, Deduct	-809.12	
		For Class 54 Rating, Add	1,114.43	
		For Class 55 Rating, Add	1,662.47	
		For Class 56 Rating, Add	2,203.16	
40 05 19 00-0750	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,467.78	613.10
		For Class 52 Rating, Deduct	-829.27	
		For Class 54 Rating, Add	1,141.97	
		For Class 55 Rating, Add	1,703.46	
		For Class 56 Rating, Add	2,257.40	
40 05 19 00-0751	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,656.31	616.62
		For Class 52 Rating, Deduct	-849.42	
		For Class 54 Rating, Add	1,169.52	
		For Class 55 Rating, Add	1,744.44	
		For Class 56 Rating, Add	2,311.64	
40 05 19 00-0752	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,844.85	620.15
		For Class 52 Rating, Deduct	-869.58	
		For Class 54 Rating, Add	1,197.06	
		For Class 55 Rating, Add	1,785.42	
		For Class 56 Rating, Add	2,365.87	
40 05 19 00-0753	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,033.39	623.67
		For Class 52 Rating, Deduct	-889.73	
		For Class 54 Rating, Add	1,224.61	
		For Class 55 Rating, Add	1,826.40	
		For Class 56 Rating, Add	2,420.11	
40 05 19 00-0754	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,221.93	627.19
		For Class 52 Rating, Deduct	-909.88	
		For Class 54 Rating, Add	1,252.15	
		For Class 55 Rating, Add	1,867.38	
		For Class 56 Rating, Add	2,474.34	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined,
Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-0756	EA 14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,854.40		591.96
	For Class 52 Rating, Deduct	-215.32		
	For Class 54 Rating, Add	304.39		
	For Class 55 Rating, Add	458.05		
	For Class 56 Rating, Add	609.75		
40 05 19 00-0757	EA 14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,083.08		595.48
	For Class 52 Rating, Deduct	-239.89		
	For Class 54 Rating, Add	337.95		
	For Class 55 Rating, Add	507.98		
	For Class 56 Rating, Add	675.83		
40 05 19 00-0758	EA 14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,311.78		599.01
	For Class 52 Rating, Deduct	-264.46		
	For Class 54 Rating, Add	371.52		
	For Class 55 Rating, Add	557.92		
	For Class 56 Rating, Add	741.91		
40 05 19 00-0759	EA 14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,540.47		602.53
	For Class 52 Rating, Deduct	-289.03		
	For Class 54 Rating, Add	405.09		
	For Class 55 Rating, Add	607.85		
	For Class 56 Rating, Add	807.99		
40 05 19 00-0760	EA 14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,769.17		606.05
	For Class 52 Rating, Deduct	-313.60		
	For Class 54 Rating, Add	438.66		
	For Class 55 Rating, Add	657.79		
	For Class 56 Rating, Add	874.08		
40 05 19 00-0761	EA 14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,997.86		609.58
	For Class 52 Rating, Deduct	-338.17		
	For Class 54 Rating, Add	472.22		
	For Class 55 Rating, Add	707.73		
	For Class 56 Rating, Add	940.16		
40 05 19 00-0762	EA 14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,226.55		613.10
	For Class 52 Rating, Deduct	-362.74		
	For Class 54 Rating, Add	505.79		
	For Class 55 Rating, Add	757.66		
	For Class 56 Rating, Add	1,006.24		
40 05 19 00-0763	EA 14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,455.24		616.62
	For Class 52 Rating, Deduct	-387.31		
	For Class 54 Rating, Add	539.36		
	For Class 55 Rating, Add	807.60		
	For Class 56 Rating, Add	1,072.32		
40 05 19 00-0764	EA 14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,683.93		620.15
	For Class 52 Rating, Deduct	-411.88		
	For Class 54 Rating, Add	572.92		
	For Class 55 Rating, Add	857.53		
	For Class 56 Rating, Add	1,138.40		
40 05 19 00-0765	EA 14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,912.63		623.67
	For Class 52 Rating, Deduct	-436.44		
	For Class 54 Rating, Add	606.49		
	For Class 55 Rating, Add	907.47		
	For Class 56 Rating, Add	1,204.48		
40 05 19 00-0766	EA 14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,141.32		627.19
	For Class 52 Rating, Deduct	-461.01		
	For Class 54 Rating, Add	640.06		
	For Class 55 Rating, Add	957.41		
	For Class 56 Rating, Add	1,270.56		
40 05 19 00-0767	EA 14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,370.02		630.72
	For Class 52 Rating, Deduct	-485.58		
	For Class 54 Rating, Add	673.63		
	For Class 55 Rating, Add	1,007.34		
	For Class 56 Rating, Add	1,336.65		
40 05 19 00-0768	EA 14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,598.71		634.24
	For Class 52 Rating, Deduct	-510.15		
	For Class 54 Rating, Add	707.19		
	For Class 55 Rating, Add	1,057.28		
	For Class 56 Rating, Add	1,402.73		
40 05 19 00-0769	EA 14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,827.40		637.77
	For Class 52 Rating, Deduct	-534.72		
	For Class 54 Rating, Add	740.76		
	For Class 55 Rating, Add	1,107.22		
	For Class 56 Rating, Add	1,468.81		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-0770	EA	14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,056.09	641.29
		For Class 52 Rating, Deduct	-559.29	
		For Class 54 Rating, Add	774.33	
		For Class 55 Rating, Add	1,157.15	
		For Class 56 Rating, Add	1,534.89	
40 05 19 00-0771	EA	14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,284.79	644.81
		For Class 52 Rating, Deduct	-583.86	
		For Class 54 Rating, Add	807.89	
		For Class 55 Rating, Add	1,207.09	
		For Class 56 Rating, Add	1,600.97	
40 05 19 00-0772	EA	14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,513.49	648.34
		For Class 52 Rating, Deduct	-608.43	
		For Class 54 Rating, Add	841.46	
		For Class 55 Rating, Add	1,257.02	
		For Class 56 Rating, Add	1,667.06	
40 05 19 00-0773	EA	14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,742.18	651.86
		For Class 52 Rating, Deduct	-633.00	
		For Class 54 Rating, Add	875.03	
		For Class 55 Rating, Add	1,306.96	
		For Class 56 Rating, Add	1,733.14	
40 05 19 00-0774	EA	14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,970.87	655.38
		For Class 52 Rating, Deduct	-657.57	
		For Class 54 Rating, Add	908.60	
		For Class 55 Rating, Add	1,356.90	
		For Class 56 Rating, Add	1,799.22	
40 05 19 00-0775	EA	14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,199.56	658.91
		For Class 52 Rating, Deduct	-682.13	
		For Class 54 Rating, Add	942.16	
		For Class 55 Rating, Add	1,406.83	
		For Class 56 Rating, Add	1,865.30	
40 05 19 00-0776	EA	14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,428.26	662.43
		For Class 52 Rating, Deduct	-706.70	
		For Class 54 Rating, Add	975.73	
		For Class 55 Rating, Add	1,456.77	
		For Class 56 Rating, Add	1,931.38	
40 05 19 00-0777	EA	14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,656.95	665.95
		For Class 52 Rating, Deduct	-731.27	
		For Class 54 Rating, Add	1,009.30	
		For Class 55 Rating, Add	1,506.70	
		For Class 56 Rating, Add	1,997.46	
40 05 19 00-0778	EA	14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,885.64	669.48
		For Class 52 Rating, Deduct	-755.84	
		For Class 54 Rating, Add	1,042.86	
		For Class 55 Rating, Add	1,556.64	
		For Class 56 Rating, Add	2,063.54	
40 05 19 00-0779	EA	14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,114.34	673.00
		For Class 52 Rating, Deduct	-780.41	
		For Class 54 Rating, Add	1,076.43	
		For Class 55 Rating, Add	1,606.58	
		For Class 56 Rating, Add	2,129.63	
40 05 19 00-0780	EA	14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,343.02	676.52
		For Class 52 Rating, Deduct	-804.98	
		For Class 54 Rating, Add	1,110.00	
		For Class 55 Rating, Add	1,656.51	
		For Class 56 Rating, Add	2,195.71	
40 05 19 00-0781	EA	14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,571.72	680.05
		For Class 52 Rating, Deduct	-829.55	
		For Class 54 Rating, Add	1,143.57	
		For Class 55 Rating, Add	1,706.45	
		For Class 56 Rating, Add	2,261.79	
40 05 19 00-0782	EA	14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,800.41	683.57
		For Class 52 Rating, Deduct	-854.12	
		For Class 54 Rating, Add	1,177.13	
		For Class 55 Rating, Add	1,756.39	
		For Class 56 Rating, Add	2,327.87	
40 05 19 00-0783	EA	14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,029.11	687.09
		For Class 52 Rating, Deduct	-878.69	
		For Class 54 Rating, Add	1,210.70	
		For Class 55 Rating, Add	1,806.32	
		For Class 56 Rating, Add	2,393.96	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0784	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,257.80	690.62
		For Class 52 Rating, Deduct		-903.26	
		For Class 54 Rating, Add		1,244.27	
		For Class 55 Rating, Add		1,856.26	
		For Class 56 Rating, Add		2,460.04	
40 05 19 00-0785	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,486.50	694.14
		For Class 52 Rating, Deduct		-927.82	
		For Class 54 Rating, Add		1,277.84	
		For Class 55 Rating, Add		1,906.20	
		For Class 56 Rating, Add		2,526.12	
40 05 19 00-0786	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,715.18	697.66
		For Class 52 Rating, Deduct		-952.39	
		For Class 54 Rating, Add		1,311.40	
		For Class 55 Rating, Add		1,956.13	
		For Class 56 Rating, Add		2,592.20	
40 05 19 00-0787	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,943.87	701.19
		For Class 52 Rating, Deduct		-976.96	
		For Class 54 Rating, Add		1,344.97	
		For Class 55 Rating, Add		2,006.07	
		For Class 56 Rating, Add		2,658.28	
40 05 19 00-0788	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,172.57	704.71
		For Class 52 Rating, Deduct		-1,001.53	
		For Class 54 Rating, Add		1,378.54	
		For Class 55 Rating, Add		2,056.00	
		For Class 56 Rating, Add		2,724.36	
40 05 19 00-0789	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,401.26	708.24
		For Class 52 Rating, Deduct		-1,026.10	
		For Class 54 Rating, Add		1,412.10	
		For Class 55 Rating, Add		2,105.94	
		For Class 56 Rating, Add		2,790.44	
40 05 19 00-0790	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,629.96	711.76
		For Class 52 Rating, Deduct		-1,050.67	
		For Class 54 Rating, Add		1,445.67	
		For Class 55 Rating, Add		2,155.88	
		For Class 56 Rating, Add		2,856.53	
40 05 19 00-0791	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,858.64	715.28
		For Class 52 Rating, Deduct		-1,075.24	
		For Class 54 Rating, Add		1,479.24	
		For Class 55 Rating, Add		2,205.81	
		For Class 56 Rating, Add		2,922.61	
40 05 19 00-0792	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,087.35	718.81
		For Class 52 Rating, Deduct		-1,099.81	
		For Class 54 Rating, Add		1,512.81	
		For Class 55 Rating, Add		2,255.75	
		For Class 56 Rating, Add		2,988.69	
40 05 19 00-0793	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,316.04	722.33
		For Class 52 Rating, Deduct		-1,124.38	
		For Class 54 Rating, Add		1,546.37	
		For Class 55 Rating, Add		2,305.68	
		For Class 56 Rating, Add		3,054.77	

40 05 19 00-0794 16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe

(40 05 19 00-0554)

40 05 19 00-0795	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,341.39	676.52
		For Class 52 Rating, Deduct		-254.80	
		For Class 54 Rating, Add		359.75	
		For Class 55 Rating, Add		541.15	
		For Class 56 Rating, Add		720.23	
40 05 19 00-0796	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,607.73	680.05
		For Class 52 Rating, Deduct		-283.51	
		For Class 54 Rating, Add		398.97	
		For Class 55 Rating, Add		599.48	
		For Class 56 Rating, Add		797.41	
40 05 19 00-0797	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,874.07	683.57
		For Class 52 Rating, Deduct		-312.22	
		For Class 54 Rating, Add		438.18	
		For Class 55 Rating, Add		657.81	
		For Class 56 Rating, Add		874.60	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798	EA		16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,140.41	687.09
			For Class 52 Rating, Deduct	-340.93	
			For Class 54 Rating, Add	477.40	
			For Class 55 Rating, Add	716.14	
			For Class 56 Rating, Add	951.79	
40 05 19 00-0799	EA		16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,406.74	690.62
			For Class 52 Rating, Deduct	-369.64	
			For Class 54 Rating, Add	516.61	
			For Class 55 Rating, Add	774.47	
			For Class 56 Rating, Add	1,028.97	
40 05 19 00-0800	EA		16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,673.08	694.14
			For Class 52 Rating, Deduct	-398.35	
			For Class 54 Rating, Add	555.82	
			For Class 55 Rating, Add	832.80	
			For Class 56 Rating, Add	1,106.16	
40 05 19 00-0801	EA		16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,939.41	697.66
			For Class 52 Rating, Deduct	-427.06	
			For Class 54 Rating, Add	595.04	
			For Class 55 Rating, Add	891.13	
			For Class 56 Rating, Add	1,183.35	
40 05 19 00-0802	EA		16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,205.75	701.19
			For Class 52 Rating, Deduct	-455.77	
			For Class 54 Rating, Add	634.25	
			For Class 55 Rating, Add	949.46	
			For Class 56 Rating, Add	1,260.53	
40 05 19 00-0803	EA		16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,472.09	704.71
			For Class 52 Rating, Deduct	-484.48	
			For Class 54 Rating, Add	673.47	
			For Class 55 Rating, Add	1,007.80	
			For Class 56 Rating, Add	1,337.72	
40 05 19 00-0804	EA		16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,713.33	708.24
			For Class 52 Rating, Deduct	-510.43	
			For Class 54 Rating, Add	708.91	
			For Class 55 Rating, Add	1,060.53	
			For Class 56 Rating, Add	1,407.50	
40 05 19 00-0805	EA		16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,004.76	711.76
			For Class 52 Rating, Deduct	-541.90	
			For Class 54 Rating, Add	751.89	
			For Class 55 Rating, Add	1,124.46	
			For Class 56 Rating, Add	1,492.09	
40 05 19 00-0806	EA		16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,271.09	715.28
			For Class 52 Rating, Deduct	-570.61	
			For Class 54 Rating, Add	791.11	
			For Class 55 Rating, Add	1,182.79	
			For Class 56 Rating, Add	1,569.28	
40 05 19 00-0807	EA		16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,537.44	718.81
			For Class 52 Rating, Deduct	-599.32	
			For Class 54 Rating, Add	830.32	
			For Class 55 Rating, Add	1,241.12	
			For Class 56 Rating, Add	1,646.47	
40 05 19 00-0808	EA		16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,803.78	722.33
			For Class 52 Rating, Deduct	-628.03	
			For Class 54 Rating, Add	869.53	
			For Class 55 Rating, Add	1,299.45	
			For Class 56 Rating, Add	1,723.66	
40 05 19 00-0809	EA		16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,070.12	725.85
			For Class 52 Rating, Deduct	-656.74	
			For Class 54 Rating, Add	908.75	
			For Class 55 Rating, Add	1,357.78	
			For Class 56 Rating, Add	1,800.84	
40 05 19 00-0810	EA		16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,336.46	729.38
			For Class 52 Rating, Deduct	-685.45	
			For Class 54 Rating, Add	947.96	
			For Class 55 Rating, Add	1,416.11	
			For Class 56 Rating, Add	1,878.03	
40 05 19 00-0811	EA		16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,602.80	732.90
			For Class 52 Rating, Deduct	-714.16	
			For Class 54 Rating, Add	987.18	
			For Class 55 Rating, Add	1,474.44	
			For Class 56 Rating, Add	1,955.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
40 05 19 00-0812	EA	16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,869.12		736.42
		For Class 52 Rating, Deduct		-742.87		
		For Class 54 Rating, Add		1,026.39		
		For Class 55 Rating, Add		1,532.77		
		For Class 56 Rating, Add		2,032.40		
40 05 19 00-0813	EA	16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,135.46		739.95
		For Class 52 Rating, Deduct		-771.58		
		For Class 54 Rating, Add		1,065.60		
		For Class 55 Rating, Add		1,591.10		
		For Class 56 Rating, Add		2,109.59		
40 05 19 00-0814	EA	16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,401.80		743.47
		For Class 52 Rating, Deduct		-800.29		
		For Class 54 Rating, Add		1,104.82		
		For Class 55 Rating, Add		1,649.43		
		For Class 56 Rating, Add		2,186.78		
40 05 19 00-0815	EA	16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,668.14		746.99
		For Class 52 Rating, Deduct		-829.00		
		For Class 54 Rating, Add		1,144.03		
		For Class 55 Rating, Add		1,707.77		
		For Class 56 Rating, Add		2,263.96		
40 05 19 00-0816	EA	16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,934.48		750.52
		For Class 52 Rating, Deduct		-857.71		
		For Class 54 Rating, Add		1,183.25		
		For Class 55 Rating, Add		1,766.10		
		For Class 56 Rating, Add		2,341.15		
40 05 19 00-0817	EA	16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,200.82		754.04
		For Class 52 Rating, Deduct		-886.42		
		For Class 54 Rating, Add		1,222.46		
		For Class 55 Rating, Add		1,824.43		
		For Class 56 Rating, Add		2,418.34		
40 05 19 00-0818	EA	16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,467.14		757.56
		For Class 52 Rating, Deduct		-915.13		
		For Class 54 Rating, Add		1,261.67		
		For Class 55 Rating, Add		1,882.76		
		For Class 56 Rating, Add		2,495.52		
40 05 19 00-0819	EA	16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,733.48		761.09
		For Class 52 Rating, Deduct		-943.84		
		For Class 54 Rating, Add		1,300.89		
		For Class 55 Rating, Add		1,941.09		
		For Class 56 Rating, Add		2,572.71		
40 05 19 00-0820	EA	16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,999.82		764.61
		For Class 52 Rating, Deduct		-972.55		
		For Class 54 Rating, Add		1,340.10		
		For Class 55 Rating, Add		1,999.42		
		For Class 56 Rating, Add		2,649.90		
40 05 19 00-0821	EA	16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,266.16		768.13
		For Class 52 Rating, Deduct		-1,001.26		
		For Class 54 Rating, Add		1,379.31		
		For Class 55 Rating, Add		2,057.75		
		For Class 56 Rating, Add		2,727.08		
40 05 19 00-0822	EA	16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,532.50		771.66
		For Class 52 Rating, Deduct		-1,029.97		
		For Class 54 Rating, Add		1,418.53		
		For Class 55 Rating, Add		2,116.08		
		For Class 56 Rating, Add		2,804.27		
40 05 19 00-0823	EA	16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,798.84		775.18
		For Class 52 Rating, Deduct		-1,058.68		
		For Class 54 Rating, Add		1,457.74		
		For Class 55 Rating, Add		2,174.41		
		For Class 56 Rating, Add		2,881.46		
40 05 19 00-0824	EA	16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,065.16		778.71
		For Class 52 Rating, Deduct		-1,087.38		
		For Class 54 Rating, Add		1,496.95		
		For Class 55 Rating, Add		2,232.74		
		For Class 56 Rating, Add		2,958.64		
40 05 19 00-0825	EA	16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,331.50		782.23
		For Class 52 Rating, Deduct		-1,116.09		
		For Class 54 Rating, Add		1,536.17		
		For Class 55 Rating, Add		2,291.07		
		For Class 56 Rating, Add		3,035.83		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-0826	EA	16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,597.84	785.75
		For Class 52 Rating, Deduct	-1,144.80	
		For Class 54 Rating, Add	1,575.38	
		For Class 55 Rating, Add	2,349.40	
		For Class 56 Rating, Add	3,113.02	
40 05 19 00-0827	EA	16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,864.18	789.28
		For Class 52 Rating, Deduct	-1,173.51	
		For Class 54 Rating, Add	1,614.60	
		For Class 55 Rating, Add	2,407.73	
		For Class 56 Rating, Add	3,190.20	
40 05 19 00-0828	EA	16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,130.53	792.80
		For Class 52 Rating, Deduct	-1,202.22	
		For Class 54 Rating, Add	1,653.81	
		For Class 55 Rating, Add	2,466.07	
		For Class 56 Rating, Add	3,267.39	
40 05 19 00-0829	EA	16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,396.86	796.32
		For Class 52 Rating, Deduct	-1,230.93	
		For Class 54 Rating, Add	1,693.03	
		For Class 55 Rating, Add	2,524.40	
		For Class 56 Rating, Add	3,344.58	
40 05 19 00-0830	EA	16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,663.19	799.85
		For Class 52 Rating, Deduct	-1,259.64	
		For Class 54 Rating, Add	1,732.24	
		For Class 55 Rating, Add	2,582.73	
		For Class 56 Rating, Add	3,421.76	
40 05 19 00-0831	EA	16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,929.53	803.37
		For Class 52 Rating, Deduct	-1,288.35	
		For Class 54 Rating, Add	1,771.45	
		For Class 55 Rating, Add	2,641.06	
		For Class 56 Rating, Add	3,498.95	
40 05 19 00-0832	EA	16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,195.87	806.89
		For Class 52 Rating, Deduct	-1,317.06	
		For Class 54 Rating, Add	1,810.67	
		For Class 55 Rating, Add	2,699.39	
		For Class 56 Rating, Add	3,576.14	
40 05 19 00-0833		18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0834	EA	18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,903.31	762.51
		For Class 52 Rating, Deduct	-302.28	
		For Class 54 Rating, Add	426.07	
		For Class 55 Rating, Add	640.53	
		For Class 56 Rating, Add	852.25	
40 05 19 00-0835	EA	18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,209.80	766.03
		For Class 52 Rating, Deduct	-335.41	
		For Class 54 Rating, Add	471.30	
		For Class 55 Rating, Add	707.82	
		For Class 56 Rating, Add	941.29	
40 05 19 00-0836	EA	18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,516.30	769.55
		For Class 52 Rating, Deduct	-368.54	
		For Class 54 Rating, Add	516.54	
		For Class 55 Rating, Add	775.10	
		For Class 56 Rating, Add	1,030.32	
40 05 19 00-0837	EA	18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,822.78	773.08
		For Class 52 Rating, Deduct	-401.66	
		For Class 54 Rating, Add	561.78	
		For Class 55 Rating, Add	842.39	
		For Class 56 Rating, Add	1,119.35	
40 05 19 00-0838	EA	18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,129.27	776.60
		For Class 52 Rating, Deduct	-434.79	
		For Class 54 Rating, Add	607.01	
		For Class 55 Rating, Add	909.67	
		For Class 56 Rating, Add	1,208.38	
40 05 19 00-0839	EA	18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,435.76	780.12
		For Class 52 Rating, Deduct	-467.91	
		For Class 54 Rating, Add	652.25	
		For Class 55 Rating, Add	976.96	
		For Class 56 Rating, Add	1,297.41	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-0840	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,742.25	783.65
		For Class 52 Rating, Deduct	.....	-501.04	
		For Class 54 Rating, Add	.....	697.49	
		For Class 55 Rating, Add	.....	1,044.24	
		For Class 56 Rating, Add	.....	1,386.45	
40 05 19 00-0841	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,048.75	787.17
		For Class 52 Rating, Deduct	.....	-534.17	
		For Class 54 Rating, Add	.....	742.72	
		For Class 55 Rating, Add	.....	1,111.53	
		For Class 56 Rating, Add	.....	1,475.48	
40 05 19 00-0842	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,355.24	790.69
		For Class 52 Rating, Deduct	.....	-567.30	
		For Class 54 Rating, Add	.....	787.96	
		For Class 55 Rating, Add	.....	1,178.81	
		For Class 56 Rating, Add	.....	1,564.51	
40 05 19 00-0843	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,661.72	794.22
		For Class 52 Rating, Deduct	.....	-600.42	
		For Class 54 Rating, Add	.....	833.20	
		For Class 55 Rating, Add	.....	1,246.10	
		For Class 56 Rating, Add	.....	1,653.54	
40 05 19 00-0844	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,968.21	797.74
		For Class 52 Rating, Deduct	.....	-633.55	
		For Class 54 Rating, Add	.....	878.43	
		For Class 55 Rating, Add	.....	1,313.38	
		For Class 56 Rating, Add	.....	1,742.57	
40 05 19 00-0845	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,274.70	801.26
		For Class 52 Rating, Deduct	.....	-666.67	
		For Class 54 Rating, Add	.....	923.67	
		For Class 55 Rating, Add	.....	1,380.67	
		For Class 56 Rating, Add	.....	1,831.61	
40 05 19 00-0846	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,581.20	804.79
		For Class 52 Rating, Deduct	.....	-699.80	
		For Class 54 Rating, Add	.....	968.91	
		For Class 55 Rating, Add	.....	1,447.95	
		For Class 56 Rating, Add	.....	1,920.64	
40 05 19 00-0847	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,887.70	808.31
		For Class 52 Rating, Deduct	.....	-732.93	
		For Class 54 Rating, Add	.....	1,014.15	
		For Class 55 Rating, Add	.....	1,515.24	
		For Class 56 Rating, Add	.....	2,009.67	
40 05 19 00-0848	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,194.19	811.83
		For Class 52 Rating, Deduct	.....	-766.06	
		For Class 54 Rating, Add	.....	1,059.38	
		For Class 55 Rating, Add	.....	1,582.52	
		For Class 56 Rating, Add	.....	2,098.70	
40 05 19 00-0849	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,500.67	815.36
		For Class 52 Rating, Deduct	.....	-799.18	
		For Class 54 Rating, Add	.....	1,104.62	
		For Class 55 Rating, Add	.....	1,649.81	
		For Class 56 Rating, Add	.....	2,187.73	
40 05 19 00-0850	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	8,807.16	818.88
		For Class 52 Rating, Deduct	.....	-832.31	
		For Class 54 Rating, Add	.....	1,149.85	
		For Class 55 Rating, Add	.....	1,717.09	
		For Class 56 Rating, Add	.....	2,276.77	
40 05 19 00-0851	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,113.66	822.41
		For Class 52 Rating, Deduct	.....	-865.44	
		For Class 54 Rating, Add	.....	1,195.09	
		For Class 55 Rating, Add	.....	1,784.38	
		For Class 56 Rating, Add	.....	2,365.80	
40 05 19 00-0852	EA	18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,420.15	825.93
		For Class 52 Rating, Deduct	.....	-898.56	
		For Class 54 Rating, Add	.....	1,240.33	
		For Class 55 Rating, Add	.....	1,851.66	
		For Class 56 Rating, Add	.....	2,454.83	
40 05 19 00-0853	EA	18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	9,726.64	829.45
		For Class 52 Rating, Deduct	.....	-931.69	
		For Class 54 Rating, Add	.....	1,285.57	
		For Class 55 Rating, Add	.....	1,918.95	
		For Class 56 Rating, Add	.....	2,543.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854	EA		18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,033.12	832.98
			For Class 52 Rating, Deduct	-964.82	
			For Class 54 Rating, Add	1,330.80	
			For Class 55 Rating, Add	1,986.23	
			For Class 56 Rating, Add	2,632.89	
40 05 19 00-0855	EA		18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,339.61	836.50
			For Class 52 Rating, Deduct	-997.94	
			For Class 54 Rating, Add	1,376.04	
			For Class 55 Rating, Add	2,053.52	
			For Class 56 Rating, Add	2,721.93	
40 05 19 00-0856	EA		18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,646.11	840.02
			For Class 52 Rating, Deduct	-1,031.07	
			For Class 54 Rating, Add	1,421.28	
			For Class 55 Rating, Add	2,120.81	
			For Class 56 Rating, Add	2,810.96	
40 05 19 00-0857	EA		18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,952.60	843.55
			For Class 52 Rating, Deduct	-1,064.20	
			For Class 54 Rating, Add	1,466.51	
			For Class 55 Rating, Add	2,188.09	
			For Class 56 Rating, Add	2,899.99	
40 05 19 00-0858	EA		18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,259.09	847.07
			For Class 52 Rating, Deduct	-1,097.32	
			For Class 54 Rating, Add	1,511.75	
			For Class 55 Rating, Add	2,255.37	
			For Class 56 Rating, Add	2,989.02	
40 05 19 00-0859	EA		18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,565.58	850.59
			For Class 52 Rating, Deduct	-1,130.45	
			For Class 54 Rating, Add	1,556.99	
			For Class 55 Rating, Add	2,322.66	
			For Class 56 Rating, Add	3,078.05	
40 05 19 00-0860	EA		18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,872.06	854.12
			For Class 52 Rating, Deduct	-1,163.58	
			For Class 54 Rating, Add	1,602.22	
			For Class 55 Rating, Add	2,389.94	
			For Class 56 Rating, Add	3,167.09	
40 05 19 00-0861	EA		18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,178.56	857.64
			For Class 52 Rating, Deduct	-1,196.70	
			For Class 54 Rating, Add	1,647.46	
			For Class 55 Rating, Add	2,457.23	
			For Class 56 Rating, Add	3,256.12	
40 05 19 00-0862	EA		18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,485.05	861.16
			For Class 52 Rating, Deduct	-1,229.83	
			For Class 54 Rating, Add	1,692.70	
			For Class 55 Rating, Add	2,524.51	
			For Class 56 Rating, Add	3,345.15	
40 05 19 00-0863	EA		18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,791.54	864.69
			For Class 52 Rating, Deduct	-1,262.96	
			For Class 54 Rating, Add	1,737.93	
			For Class 55 Rating, Add	2,591.80	
			For Class 56 Rating, Add	3,434.18	
40 05 19 00-0864	EA		18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,098.03	868.21
			For Class 52 Rating, Deduct	-1,296.08	
			For Class 54 Rating, Add	1,783.17	
			For Class 55 Rating, Add	2,659.08	
			For Class 56 Rating, Add	3,523.21	
40 05 19 00-0865	EA		18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,404.52	871.73
			For Class 52 Rating, Deduct	-1,329.21	
			For Class 54 Rating, Add	1,828.41	
			For Class 55 Rating, Add	2,726.37	
			For Class 56 Rating, Add	3,612.25	
40 05 19 00-0866	EA		18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,711.01	875.26
			For Class 52 Rating, Deduct	-1,362.34	
			For Class 54 Rating, Add	1,873.65	
			For Class 55 Rating, Add	2,793.66	
			For Class 56 Rating, Add	3,701.28	
40 05 19 00-0867	EA		18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,017.50	878.78
			For Class 52 Rating, Deduct	-1,395.46	
			For Class 54 Rating, Add	1,918.88	
			For Class 55 Rating, Add	2,860.94	
			For Class 56 Rating, Add	3,790.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-0868	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,323.99	882.31
		For Class 52 Rating, Deduct		-1,428.59	
		For Class 54 Rating, Add		1,964.12	
		For Class 55 Rating, Add		2,928.22	
		For Class 56 Rating, Add		3,879.34	
40 05 19 00-0869	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,630.49	885.83
		For Class 52 Rating, Deduct		-1,461.72	
		For Class 54 Rating, Add		2,009.36	
		For Class 55 Rating, Add		2,995.51	
		For Class 56 Rating, Add		3,968.38	
40 05 19 00-0870	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,936.98	889.35
		For Class 52 Rating, Deduct		-1,494.84	
		For Class 54 Rating, Add		2,054.59	
		For Class 55 Rating, Add		3,062.79	
		For Class 56 Rating, Add		4,057.41	
40 05 19 00-0871	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,243.47	892.88
		For Class 52 Rating, Deduct		-1,527.97	
		For Class 54 Rating, Add		2,099.83	
		For Class 55 Rating, Add		3,130.08	
		For Class 56 Rating, Add		4,146.44	
40 05 19 00-0872 20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0873	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,528.45	870.32
		For Class 52 Rating, Deduct		-353.08	
		For Class 54 Rating, Add		497.29	
		For Class 55 Rating, Add		747.43	
		For Class 56 Rating, Add		994.36	
40 05 19 00-0874	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,880.11	873.84
		For Class 52 Rating, Deduct		-391.17	
		For Class 54 Rating, Add		549.30	
		For Class 55 Rating, Add		824.79	
		For Class 56 Rating, Add		1,096.71	
40 05 19 00-0875	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,231.77	877.36
		For Class 52 Rating, Deduct		-429.27	
		For Class 54 Rating, Add		601.32	
		For Class 55 Rating, Add		902.15	
		For Class 56 Rating, Add		1,199.07	
40 05 19 00-0876	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,583.43	880.89
		For Class 52 Rating, Deduct		-467.36	
		For Class 54 Rating, Add		653.33	
		For Class 55 Rating, Add		979.50	
		For Class 56 Rating, Add		1,301.43	
40 05 19 00-0877	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,935.10	884.41
		For Class 52 Rating, Deduct		-505.46	
		For Class 54 Rating, Add		705.34	
		For Class 55 Rating, Add		1,056.86	
		For Class 56 Rating, Add		1,403.79	
40 05 19 00-0878	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,286.76	887.93
		For Class 52 Rating, Deduct		-543.55	
		For Class 54 Rating, Add		757.35	
		For Class 55 Rating, Add		1,134.22	
		For Class 56 Rating, Add		1,506.15	
40 05 19 00-0879	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,638.43	891.46
		For Class 52 Rating, Deduct		-581.65	
		For Class 54 Rating, Add		809.37	
		For Class 55 Rating, Add		1,211.58	
		For Class 56 Rating, Add		1,608.51	
40 05 19 00-0880	EA	20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,990.09	894.98
		For Class 52 Rating, Deduct		-619.75	
		For Class 54 Rating, Add		861.38	
		For Class 55 Rating, Add		1,288.94	
		For Class 56 Rating, Add		1,710.86	
40 05 19 00-0881	EA	20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,341.75	898.50
		For Class 52 Rating, Deduct		-657.84	
		For Class 54 Rating, Add		913.39	
		For Class 55 Rating, Add		1,366.30	
		For Class 56 Rating, Add		1,813.22	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-0882	EA	20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,693.41	902.03
		For Class 52 Rating, Deduct	-695.94	
		For Class 54 Rating, Add	965.41	
		For Class 55 Rating, Add	1,443.66	
		For Class 56 Rating, Add	1,915.58	
40 05 19 00-0883	EA	20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,045.08	905.55
		For Class 52 Rating, Deduct	-734.03	
		For Class 54 Rating, Add	1,017.42	
		For Class 55 Rating, Add	1,521.01	
		For Class 56 Rating, Add	2,017.94	
40 05 19 00-0884	EA	20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,396.74	909.08
		For Class 52 Rating, Deduct	-772.13	
		For Class 54 Rating, Add	1,069.43	
		For Class 55 Rating, Add	1,598.37	
		For Class 56 Rating, Add	2,120.29	
40 05 19 00-0885	EA	20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,748.41	912.60
		For Class 52 Rating, Deduct	-810.22	
		For Class 54 Rating, Add	1,121.44	
		For Class 55 Rating, Add	1,675.73	
		For Class 56 Rating, Add	2,222.65	
40 05 19 00-0886	EA	20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,100.07	916.12
		For Class 52 Rating, Deduct	-848.32	
		For Class 54 Rating, Add	1,173.46	
		For Class 55 Rating, Add	1,753.09	
		For Class 56 Rating, Add	2,325.01	
40 05 19 00-0887	EA	20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,451.73	919.65
		For Class 52 Rating, Deduct	-886.42	
		For Class 54 Rating, Add	1,225.47	
		For Class 55 Rating, Add	1,830.45	
		For Class 56 Rating, Add	2,427.37	
40 05 19 00-0888	EA	20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,803.39	923.17
		For Class 52 Rating, Deduct	-924.51	
		For Class 54 Rating, Add	1,277.48	
		For Class 55 Rating, Add	1,907.81	
		For Class 56 Rating, Add	2,529.73	
40 05 19 00-0889	EA	20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,155.06	926.69
		For Class 52 Rating, Deduct	-962.61	
		For Class 54 Rating, Add	1,329.50	
		For Class 55 Rating, Add	1,985.17	
		For Class 56 Rating, Add	2,632.09	
40 05 19 00-0890	EA	20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,506.72	930.22
		For Class 52 Rating, Deduct	-1,000.70	
		For Class 54 Rating, Add	1,381.51	
		For Class 55 Rating, Add	2,062.52	
		For Class 56 Rating, Add	2,734.44	
40 05 19 00-0891	EA	20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,858.38	933.74
		For Class 52 Rating, Deduct	-1,038.80	
		For Class 54 Rating, Add	1,433.52	
		For Class 55 Rating, Add	2,139.88	
		For Class 56 Rating, Add	2,836.80	
40 05 19 00-0892	EA	20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,210.04	937.26
		For Class 52 Rating, Deduct	-1,076.89	
		For Class 54 Rating, Add	1,485.53	
		For Class 55 Rating, Add	2,217.24	
		For Class 56 Rating, Add	2,939.16	
40 05 19 00-0893	EA	20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,561.70	940.79
		For Class 52 Rating, Deduct	-1,114.99	
		For Class 54 Rating, Add	1,537.55	
		For Class 55 Rating, Add	2,294.60	
		For Class 56 Rating, Add	3,041.52	
40 05 19 00-0894	EA	20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,913.38	944.31
		For Class 52 Rating, Deduct	-1,153.09	
		For Class 54 Rating, Add	1,589.56	
		For Class 55 Rating, Add	2,371.96	
		For Class 56 Rating, Add	3,143.88	
40 05 19 00-0895	EA	20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,265.04	947.83
		For Class 52 Rating, Deduct	-1,191.18	
		For Class 54 Rating, Add	1,641.57	
		For Class 55 Rating, Add	2,449.32	
		For Class 56 Rating, Add	3,246.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-0896	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,616.71	951.36
		For Class 52 Rating, Deduct	-1,229.28	
		For Class 54 Rating, Add	1,693.59	
		For Class 55 Rating, Add	2,526.68	
		For Class 56 Rating, Add	3,348.59	
40 05 19 00-0897	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,968.37	954.88
		For Class 52 Rating, Deduct	-1,267.37	
		For Class 54 Rating, Add	1,745.60	
		For Class 55 Rating, Add	2,604.03	
		For Class 56 Rating, Add	3,450.95	
40 05 19 00-0898	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,320.03	958.40
		For Class 52 Rating, Deduct	-1,305.47	
		For Class 54 Rating, Add	1,797.61	
		For Class 55 Rating, Add	2,681.39	
		For Class 56 Rating, Add	3,553.31	
40 05 19 00-0899	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,671.69	961.93
		For Class 52 Rating, Deduct	-1,343.56	
		For Class 54 Rating, Add	1,849.62	
		For Class 55 Rating, Add	2,758.75	
		For Class 56 Rating, Add	3,655.66	
40 05 19 00-0900	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,023.36	965.45
		For Class 52 Rating, Deduct	-1,381.66	
		For Class 54 Rating, Add	1,901.64	
		For Class 55 Rating, Add	2,836.11	
		For Class 56 Rating, Add	3,758.02	
40 05 19 00-0901	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,375.02	968.97
		For Class 52 Rating, Deduct	-1,419.76	
		For Class 54 Rating, Add	1,953.65	
		For Class 55 Rating, Add	2,913.47	
		For Class 56 Rating, Add	3,860.38	
40 05 19 00-0902	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,726.69	972.50
		For Class 52 Rating, Deduct	-1,457.85	
		For Class 54 Rating, Add	2,005.66	
		For Class 55 Rating, Add	2,990.83	
		For Class 56 Rating, Add	3,962.74	
40 05 19 00-0903	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,078.35	976.02
		For Class 52 Rating, Deduct	-1,495.95	
		For Class 54 Rating, Add	2,057.67	
		For Class 55 Rating, Add	3,068.18	
		For Class 56 Rating, Add	4,065.10	
40 05 19 00-0904	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,430.01	979.55
		For Class 52 Rating, Deduct	-1,534.04	
		For Class 54 Rating, Add	2,109.69	
		For Class 55 Rating, Add	3,145.54	
		For Class 56 Rating, Add	4,167.46	
40 05 19 00-0905	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,781.67	983.07
		For Class 52 Rating, Deduct	-1,572.14	
		For Class 54 Rating, Add	2,161.70	
		For Class 55 Rating, Add	3,222.90	
		For Class 56 Rating, Add	4,269.81	
40 05 19 00-0906	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,133.34	986.59
		For Class 52 Rating, Deduct	-1,610.24	
		For Class 54 Rating, Add	2,213.71	
		For Class 55 Rating, Add	3,300.26	
		For Class 56 Rating, Add	4,372.17	
40 05 19 00-0907	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,485.00	990.12
		For Class 52 Rating, Deduct	-1,648.33	
		For Class 54 Rating, Add	2,265.73	
		For Class 55 Rating, Add	3,377.62	
		For Class 56 Rating, Add	4,474.53	
40 05 19 00-0908	EA	20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,836.67	993.64
		For Class 52 Rating, Deduct	-1,686.43	
		For Class 54 Rating, Add	2,317.74	
		For Class 55 Rating, Add	3,454.98	
		For Class 56 Rating, Add	4,576.89	
40 05 19 00-0909	EA	20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,188.33	997.16
		For Class 52 Rating, Deduct	-1,724.52	
		For Class 54 Rating, Add	2,369.75	
		For Class 55 Rating, Add	3,532.34	
		For Class 56 Rating, Add	4,679.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910	EA		20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,539.99	1,000.69
			For Class 52 Rating, Deduct	-1,762.62	
			For Class 54 Rating, Add	2,421.76	
			For Class 55 Rating, Add	3,609.70	
			For Class 56 Rating, Add	4,781.60	
40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)					
40 05 19 00-0912	EA		24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,614.42	1,028.87
			For Class 52 Rating, Deduct	-446.11	
			For Class 54 Rating, Add	627.03	
			For Class 55 Rating, Add	941.79	
			For Class 56 Rating, Add	1,252.50	
40 05 19 00-0913	EA		24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,048.91	1,032.40
			For Class 52 Rating, Deduct	-493.31	
			For Class 54 Rating, Add	691.47	
			For Class 55 Rating, Add	1,037.62	
			For Class 56 Rating, Add	1,379.29	
40 05 19 00-0914	EA		24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,483.39	1,035.92
			For Class 52 Rating, Deduct	-540.52	
			For Class 54 Rating, Add	755.91	
			For Class 55 Rating, Add	1,133.45	
			For Class 56 Rating, Add	1,506.08	
40 05 19 00-0915	EA		24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,917.86	1,039.44
			For Class 52 Rating, Deduct	-587.72	
			For Class 54 Rating, Add	820.34	
			For Class 55 Rating, Add	1,229.27	
			For Class 56 Rating, Add	1,632.86	
40 05 19 00-0916	EA		24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,352.34	1,042.97
			For Class 52 Rating, Deduct	-634.93	
			For Class 54 Rating, Add	884.78	
			For Class 55 Rating, Add	1,325.10	
			For Class 56 Rating, Add	1,759.65	
40 05 19 00-0917	EA		24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,786.82	1,046.49
			For Class 52 Rating, Deduct	-682.13	
			For Class 54 Rating, Add	949.21	
			For Class 55 Rating, Add	1,420.93	
			For Class 56 Rating, Add	1,886.44	
40 05 19 00-0918	EA		24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,221.30	1,050.02
			For Class 52 Rating, Deduct	-729.34	
			For Class 54 Rating, Add	1,013.65	
			For Class 55 Rating, Add	1,516.75	
			For Class 56 Rating, Add	2,013.23	
40 05 19 00-0919	EA		24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,655.78	1,053.54
			For Class 52 Rating, Deduct	-776.55	
			For Class 54 Rating, Add	1,078.08	
			For Class 55 Rating, Add	1,612.58	
			For Class 56 Rating, Add	2,140.02	
40 05 19 00-0920	EA		24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,090.27	1,057.06
			For Class 52 Rating, Deduct	-823.75	
			For Class 54 Rating, Add	1,142.52	
			For Class 55 Rating, Add	1,708.41	
			For Class 56 Rating, Add	2,266.81	
40 05 19 00-0921	EA		24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,524.74	1,060.59
			For Class 52 Rating, Deduct	-870.96	
			For Class 54 Rating, Add	1,206.95	
			For Class 55 Rating, Add	1,804.23	
			For Class 56 Rating, Add	2,393.60	
40 05 19 00-0922	EA		24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,959.22	1,064.11
			For Class 52 Rating, Deduct	-918.16	
			For Class 54 Rating, Add	1,271.39	
			For Class 55 Rating, Add	1,900.06	
			For Class 56 Rating, Add	2,520.39	
40 05 19 00-0923	EA		24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,393.70	1,067.63
			For Class 52 Rating, Deduct	-965.37	
			For Class 54 Rating, Add	1,335.82	
			For Class 55 Rating, Add	1,995.89	
			For Class 56 Rating, Add	2,647.18	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-0924	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,828.18	1,071.16
		For Class 52 Rating, Deduct		-1,012.57	
		For Class 54 Rating, Add		1,400.26	
		For Class 55 Rating, Add		2,091.71	
		For Class 56 Rating, Add		2,773.96	
40 05 19 00-0925	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,262.66	1,074.68
		For Class 52 Rating, Deduct		-1,059.78	
		For Class 54 Rating, Add		1,464.69	
		For Class 55 Rating, Add		2,187.54	
		For Class 56 Rating, Add		2,900.75	
40 05 19 00-0926	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,697.14	1,078.20
		For Class 52 Rating, Deduct		-1,106.99	
		For Class 54 Rating, Add		1,529.13	
		For Class 55 Rating, Add		2,283.37	
		For Class 56 Rating, Add		3,027.54	
40 05 19 00-0927	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,131.62	1,081.73
		For Class 52 Rating, Deduct		-1,154.19	
		For Class 54 Rating, Add		1,593.56	
		For Class 55 Rating, Add		2,379.19	
		For Class 56 Rating, Add		3,154.33	
40 05 19 00-0928	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,566.10	1,085.25
		For Class 52 Rating, Deduct		-1,201.40	
		For Class 54 Rating, Add		1,658.00	
		For Class 55 Rating, Add		2,475.02	
		For Class 56 Rating, Add		3,281.12	
40 05 19 00-0929	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,000.58	1,088.77
		For Class 52 Rating, Deduct		-1,248.60	
		For Class 54 Rating, Add		1,722.43	
		For Class 55 Rating, Add		2,570.85	
		For Class 56 Rating, Add		3,407.91	
40 05 19 00-0930	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,435.06	1,092.30
		For Class 52 Rating, Deduct		-1,295.81	
		For Class 54 Rating, Add		1,786.87	
		For Class 55 Rating, Add		2,666.67	
		For Class 56 Rating, Add		3,534.70	
40 05 19 00-0931	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,869.55	1,095.82
		For Class 52 Rating, Deduct		-1,343.01	
		For Class 54 Rating, Add		1,851.30	
		For Class 55 Rating, Add		2,762.50	
		For Class 56 Rating, Add		3,661.49	
40 05 19 00-0932	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,304.03	1,099.34
		For Class 52 Rating, Deduct		-1,390.22	
		For Class 54 Rating, Add		1,915.74	
		For Class 55 Rating, Add		2,858.33	
		For Class 56 Rating, Add		3,788.28	
40 05 19 00-0933	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,738.51	1,102.87
		For Class 52 Rating, Deduct		-1,437.42	
		For Class 54 Rating, Add		1,980.18	
		For Class 55 Rating, Add		2,954.15	
		For Class 56 Rating, Add		3,915.07	
40 05 19 00-0934	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,172.99	1,106.39
		For Class 52 Rating, Deduct		-1,484.63	
		For Class 54 Rating, Add		2,044.61	
		For Class 55 Rating, Add		3,049.98	
		For Class 56 Rating, Add		4,041.85	
40 05 19 00-0935	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,607.47	1,109.92
		For Class 52 Rating, Deduct		-1,531.83	
		For Class 54 Rating, Add		2,109.05	
		For Class 55 Rating, Add		3,145.81	
		For Class 56 Rating, Add		4,168.64	
40 05 19 00-0936	EA	24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,041.95	1,113.44
		For Class 52 Rating, Deduct		-1,579.04	
		For Class 54 Rating, Add		2,173.48	
		For Class 55 Rating, Add		3,241.63	
		For Class 56 Rating, Add		4,295.43	
40 05 19 00-0937	EA	24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,476.43	1,116.96
		For Class 52 Rating, Deduct		-1,626.25	
		For Class 54 Rating, Add		2,237.92	
		For Class 55 Rating, Add		3,337.46	
		For Class 56 Rating, Add		4,422.22	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-0938	EA	24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,910.91	1,120.49
		For Class 52 Rating, Deduct	-1,673.45	
		For Class 54 Rating, Add	2,302.35	
		For Class 55 Rating, Add	3,433.29	
		For Class 56 Rating, Add	4,549.01	
40 05 19 00-0939	EA	24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,345.39	1,124.01
		For Class 52 Rating, Deduct	-1,720.66	
		For Class 54 Rating, Add	2,366.79	
		For Class 55 Rating, Add	3,529.12	
		For Class 56 Rating, Add	4,675.80	
40 05 19 00-0940	EA	24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,779.87	1,127.53
		For Class 52 Rating, Deduct	-1,767.66	
		For Class 54 Rating, Add	2,431.22	
		For Class 55 Rating, Add	3,624.94	
		For Class 56 Rating, Add	4,802.59	
40 05 19 00-0941	EA	24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,305.11	1,190.97
		For Class 52 Rating, Deduct	-1,815.07	
		For Class 54 Rating, Add	2,496.75	
		For Class 55 Rating, Add	3,722.95	
		For Class 56 Rating, Add	4,932.64	
40 05 19 00-0942	EA	24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,739.59	1,194.49
		For Class 52 Rating, Deduct	-1,862.27	
		For Class 54 Rating, Add	2,561.18	
		For Class 55 Rating, Add	3,818.77	
		For Class 56 Rating, Add	5,059.43	
40 05 19 00-0943	EA	24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,174.07	1,198.01
		For Class 52 Rating, Deduct	-1,909.48	
		For Class 54 Rating, Add	2,625.62	
		For Class 55 Rating, Add	3,914.60	
		For Class 56 Rating, Add	5,186.22	
40 05 19 00-0944	EA	24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,608.54	1,201.54
		For Class 52 Rating, Deduct	-1,956.68	
		For Class 54 Rating, Add	2,690.05	
		For Class 55 Rating, Add	4,010.42	
		For Class 56 Rating, Add	5,313.01	
40 05 19 00-0945	EA	24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,043.03	1,205.06
		For Class 52 Rating, Deduct	-2,003.89	
		For Class 54 Rating, Add	2,754.49	
		For Class 55 Rating, Add	4,106.25	
		For Class 56 Rating, Add	5,439.80	
40 05 19 00-0946	EA	24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,477.51	1,208.58
		For Class 52 Rating, Deduct	-2,051.10	
		For Class 54 Rating, Add	2,818.92	
		For Class 55 Rating, Add	4,202.08	
		For Class 56 Rating, Add	5,566.59	
40 05 19 00-0947	EA	24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,911.99	1,212.11
		For Class 52 Rating, Deduct	-2,098.30	
		For Class 54 Rating, Add	2,883.36	
		For Class 55 Rating, Add	4,297.91	
		For Class 56 Rating, Add	5,693.38	
40 05 19 00-0948	EA	24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,346.47	1,215.63
		For Class 52 Rating, Deduct	-2,145.51	
		For Class 54 Rating, Add	2,947.79	
		For Class 55 Rating, Add	4,393.73	
		For Class 56 Rating, Add	5,820.17	
40 05 19 00-0949	EA	24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,780.95	1,219.15
		For Class 52 Rating, Deduct	-2,192.71	
		For Class 54 Rating, Add	3,012.23	
		For Class 55 Rating, Add	4,489.56	
		For Class 56 Rating, Add	5,946.96	
40 05 19 00-0950		30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)		
40 05 19 00-0951	EA	30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,674.32	1,451.71
		For Class 52 Rating, Deduct	-712.22	
		For Class 54 Rating, Add	997.61	
		For Class 55 Rating, Add	1,496.66	
		For Class 56 Rating, Add	1,989.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-0952	EA	30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,299.53		1,455.23
		For Class 52 Rating, Deduct	-780.41		
		For Class 54 Rating, Add	1,090.65		
		For Class 55 Rating, Add	1,635.02		
		For Class 56 Rating, Add	2,172.29		
40 05 19 00-0953	EA	30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,924.74		1,458.75
		For Class 52 Rating, Deduct	-848.60		
		For Class 54 Rating, Add	1,183.70		
		For Class 55 Rating, Add	1,773.38		
		For Class 56 Rating, Add	2,355.35		
40 05 19 00-0954	EA	30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,549.94		1,462.28
		For Class 52 Rating, Deduct	-916.78		
		For Class 54 Rating, Add	1,276.74		
		For Class 55 Rating, Add	1,911.74		
		For Class 56 Rating, Add	2,538.40		
40 05 19 00-0955	EA	30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,175.15		1,465.80
		For Class 52 Rating, Deduct	-984.97		
		For Class 54 Rating, Add	1,369.79		
		For Class 55 Rating, Add	2,050.10		
		For Class 56 Rating, Add	2,721.46		
40 05 19 00-0956	EA	30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,800.36		1,469.32
		For Class 52 Rating, Deduct	-1,053.15		
		For Class 54 Rating, Add	1,462.83		
		For Class 55 Rating, Add	2,188.46		
		For Class 56 Rating, Add	2,904.51		
40 05 19 00-0957	EA	30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,425.59		1,472.85
		For Class 52 Rating, Deduct	-1,121.34		
		For Class 54 Rating, Add	1,555.88		
		For Class 55 Rating, Add	2,326.82		
		For Class 56 Rating, Add	3,087.57		
40 05 19 00-0958	EA	30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,050.80		1,476.37
		For Class 52 Rating, Deduct	-1,189.53		
		For Class 54 Rating, Add	1,648.92		
		For Class 55 Rating, Add	2,465.18		
		For Class 56 Rating, Add	3,270.62		
40 05 19 00-0959	EA	30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,676.01		1,479.89
		For Class 52 Rating, Deduct	-1,257.71		
		For Class 54 Rating, Add	1,741.97		
		For Class 55 Rating, Add	2,603.54		
		For Class 56 Rating, Add	3,453.68		
40 05 19 00-0960	EA	30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,301.21		1,483.42
		For Class 52 Rating, Deduct	-1,325.90		
		For Class 54 Rating, Add	1,835.01		
		For Class 55 Rating, Add	2,741.90		
		For Class 56 Rating, Add	3,636.73		
40 05 19 00-0961	EA	30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,926.42		1,486.94
		For Class 52 Rating, Deduct	-1,394.08		
		For Class 54 Rating, Add	1,928.06		
		For Class 55 Rating, Add	2,880.26		
		For Class 56 Rating, Add	3,819.78		
40 05 19 00-0962	EA	30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,551.63		1,490.46
		For Class 52 Rating, Deduct	-1,462.27		
		For Class 54 Rating, Add	2,021.10		
		For Class 55 Rating, Add	3,018.62		
		For Class 56 Rating, Add	4,002.84		
40 05 19 00-0963	EA	30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,176.84		1,493.99
		For Class 52 Rating, Deduct	-1,530.45		
		For Class 54 Rating, Add	2,114.15		
		For Class 55 Rating, Add	3,156.97		
		For Class 56 Rating, Add	4,185.89		
40 05 19 00-0964	EA	30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,802.05		1,497.51
		For Class 52 Rating, Deduct	-1,598.64		
		For Class 54 Rating, Add	2,207.19		
		For Class 55 Rating, Add	3,295.33		
		For Class 56 Rating, Add	4,368.94		
40 05 19 00-0965	EA	30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,427.26		1,501.03
		For Class 52 Rating, Deduct	-1,666.83		
		For Class 54 Rating, Add	2,300.24		
		For Class 55 Rating, Add	3,433.69		
		For Class 56 Rating, Add	4,552.00		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966	EA	30"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	18,052.47 -1,735.01 2,393.28 3,572.05 4,735.05	1,504.56
40 05 19 00-0967	EA	30"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	18,677.68 -1,803.20 2,486.33 3,710.41 4,918.11	1,508.08
40 05 19 00-0968	EA	30"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	19,302.89 -1,871.38 2,579.37 3,848.77 5,101.16	1,511.60
40 05 19 00-0969	EA	30"	Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	19,928.10 -1,939.57 2,672.42 3,987.13 5,284.22	1,515.13
40 05 19 00-0970	EA	30"	Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	20,553.31 -2,007.76 2,765.46 4,125.49 5,467.27	1,518.65
40 05 19 00-0971	EA	30"	Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	21,178.51 -2,075.94 2,858.50 4,263.85 5,650.32	1,522.18
40 05 19 00-0972	EA	30"	Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	21,803.72 -2,144.13 2,951.55 4,402.21 5,833.38	1,525.70
40 05 19 00-0973	EA	30"	Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	22,428.93 -2,212.31 3,044.59 4,540.57 6,016.43	1,529.22
40 05 19 00-0974	EA	30"	Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	23,054.15 -2,280.50 3,137.64 4,678.93 6,199.49	1,532.75
40 05 19 00-0975	EA	30"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	23,679.36 -2,348.68 3,230.68 4,817.29 6,382.54	1,536.27
40 05 19 00-0976	EA	30"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	24,304.57 -2,416.87 3,323.73 4,955.65 6,565.60	1,539.79
40 05 19 00-0977	EA	30"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	24,929.77 -2,485.06 3,416.77 5,094.01 6,748.65	1,543.32
40 05 19 00-0978	EA	30"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	25,554.98 -2,553.24 3,509.82 5,232.37 6,931.70	1,546.84
40 05 19 00-0979	EA	30"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	26,180.20 -2,621.43 3,602.86 5,370.73 7,114.76	1,550.36

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-0980	EA	30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		26,805.41	1,553.89
		For Class 52 Rating, Deduct		-2,689.61	
		For Class 54 Rating, Add		3,695.91	
		For Class 55 Rating, Add		5,509.08	
		For Class 56 Rating, Add		7,297.81	
40 05 19 00-0981	EA	30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		27,430.62	1,557.41
		For Class 52 Rating, Deduct		-2,757.80	
		For Class 54 Rating, Add		3,788.95	
		For Class 55 Rating, Add		5,647.44	
		For Class 56 Rating, Add		7,480.87	
40 05 19 00-0982	EA	30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		28,055.84	1,560.93
		For Class 52 Rating, Deduct		-2,825.99	
		For Class 54 Rating, Add		3,882.00	
		For Class 55 Rating, Add		5,785.81	
		For Class 56 Rating, Add		7,663.92	
40 05 19 00-0983	EA	30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		28,681.04	1,564.46
		For Class 52 Rating, Deduct		-2,894.17	
		For Class 54 Rating, Add		3,975.04	
		For Class 55 Rating, Add		5,924.16	
		For Class 56 Rating, Add		7,846.98	
40 05 19 00-0984	EA	30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		29,306.25	1,567.98
		For Class 52 Rating, Deduct		-2,962.36	
		For Class 54 Rating, Add		4,068.09	
		For Class 55 Rating, Add		6,062.52	
		For Class 56 Rating, Add		8,030.03	
40 05 19 00-0985	EA	30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		29,931.46	1,571.50
		For Class 52 Rating, Deduct		-3,030.54	
		For Class 54 Rating, Add		4,161.13	
		For Class 55 Rating, Add		6,200.88	
		For Class 56 Rating, Add		8,213.08	
40 05 19 00-0986	EA	30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		30,556.67	1,575.03
		For Class 52 Rating, Deduct		-3,098.73	
		For Class 54 Rating, Add		4,254.18	
		For Class 55 Rating, Add		6,339.24	
		For Class 56 Rating, Add		8,396.14	
40 05 19 00-0987	EA	30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		31,181.88	1,578.55
		For Class 52 Rating, Deduct		-3,166.91	
		For Class 54 Rating, Add		4,347.22	
		For Class 55 Rating, Add		6,477.60	
		For Class 56 Rating, Add		8,579.19	
40 05 19 00-0988	EA	30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		31,807.08	1,582.08
		For Class 52 Rating, Deduct		-3,235.10	
		For Class 54 Rating, Add		4,440.26	
		For Class 55 Rating, Add		6,615.96	
		For Class 56 Rating, Add		8,762.24	
40 05 19 00-0989		36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)			
40 05 19 00-0990	EA	36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,914.23	1,839.29
		For Class 52 Rating, Deduct		-1,004.02	
		For Class 54 Rating, Add		1,402.55	
		For Class 55 Rating, Add		2,102.30	
		For Class 56 Rating, Add		2,792.91	
40 05 19 00-0991	EA	36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,762.79	1,842.81
		For Class 52 Rating, Deduct		-1,096.77	
		For Class 54 Rating, Add		1,529.10	
		For Class 55 Rating, Add		2,290.46	
		For Class 56 Rating, Add		3,041.86	
40 05 19 00-0992	EA	36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,611.35	1,846.34
		For Class 52 Rating, Deduct		-1,189.53	
		For Class 54 Rating, Add		1,655.65	
		For Class 55 Rating, Add		2,478.63	
		For Class 56 Rating, Add		3,290.80	
40 05 19 00-0993	EA	36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,459.92	1,849.86
		For Class 52 Rating, Deduct		-1,282.28	
		For Class 54 Rating, Add		1,782.20	
		For Class 55 Rating, Add		2,666.80	
		For Class 56 Rating, Add		3,539.74	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994	EA	36"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,308.49	1,853.39
			For Class 52 Rating, Deduct	-1,375.04	
			For Class 54 Rating, Add	1,908.75	
			For Class 55 Rating, Add	2,854.97	
			For Class 56 Rating, Add	3,788.69	
40 05 19 00-0995	EA	36"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,157.05	1,856.91
			For Class 52 Rating, Deduct	-1,467.79	
			For Class 54 Rating, Add	2,035.29	
			For Class 55 Rating, Add	3,043.13	
			For Class 56 Rating, Add	4,037.63	
40 05 19 00-0996	EA	36"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,005.62	1,860.43
			For Class 52 Rating, Deduct	-1,560.54	
			For Class 54 Rating, Add	2,161.84	
			For Class 55 Rating, Add	3,231.30	
			For Class 56 Rating, Add	4,286.58	
40 05 19 00-0997	EA	36"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,854.18	1,863.96
			For Class 52 Rating, Deduct	-1,653.30	
			For Class 54 Rating, Add	2,288.39	
			For Class 55 Rating, Add	3,419.47	
			For Class 56 Rating, Add	4,535.52	
40 05 19 00-0998	EA	36"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,702.74	1,867.48
			For Class 52 Rating, Deduct	-1,746.05	
			For Class 54 Rating, Add	2,414.94	
			For Class 55 Rating, Add	3,607.64	
			For Class 56 Rating, Add	4,784.46	
40 05 19 00-0999	EA	36"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,551.31	1,871.00
			For Class 52 Rating, Deduct	-1,838.81	
			For Class 54 Rating, Add	2,541.49	
			For Class 55 Rating, Add	3,795.80	
			For Class 56 Rating, Add	5,033.41	
40 05 19 00-1000	EA	36"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,399.87	1,874.53
			For Class 52 Rating, Deduct	-1,931.56	
			For Class 54 Rating, Add	2,668.03	
			For Class 55 Rating, Add	3,983.97	
			For Class 56 Rating, Add	5,282.35	
40 05 19 00-1001	EA	36"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,248.44	1,878.05
			For Class 52 Rating, Deduct	-2,024.32	
			For Class 54 Rating, Add	2,794.58	
			For Class 55 Rating, Add	4,172.14	
			For Class 56 Rating, Add	5,531.29	
40 05 19 00-1002	EA	36"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,097.00	1,881.57
			For Class 52 Rating, Deduct	-2,117.07	
			For Class 54 Rating, Add	2,921.13	
			For Class 55 Rating, Add	4,360.31	
			For Class 56 Rating, Add	5,780.24	
40 05 19 00-1003	EA	36"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,945.56	1,885.10
			For Class 52 Rating, Deduct	-2,209.83	
			For Class 54 Rating, Add	3,047.68	
			For Class 55 Rating, Add	4,548.47	
			For Class 56 Rating, Add	6,029.18	
40 05 19 00-1004	EA	36"	Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,794.12	1,888.62
			For Class 52 Rating, Deduct	-2,302.58	
			For Class 54 Rating, Add	3,174.22	
			For Class 55 Rating, Add	4,736.64	
			For Class 56 Rating, Add	6,278.12	
40 05 19 00-1005	EA	36"	Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,642.69	1,892.14
			For Class 52 Rating, Deduct	-2,395.34	
			For Class 54 Rating, Add	3,300.77	
			For Class 55 Rating, Add	4,924.81	
			For Class 56 Rating, Add	6,527.07	
40 05 19 00-1006	EA	36"	Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,491.25	1,895.67
			For Class 52 Rating, Deduct	-2,488.09	
			For Class 54 Rating, Add	3,427.32	
			For Class 55 Rating, Add	5,112.97	
			For Class 56 Rating, Add	6,776.01	
40 05 19 00-1007	EA	36"	Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,339.82	1,899.19
			For Class 52 Rating, Deduct	-2,580.85	
			For Class 54 Rating, Add	3,553.87	
			For Class 55 Rating, Add	5,301.14	
			For Class 56 Rating, Add	7,024.96	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1008	EA	36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,188.39		1,902.71
		For Class 52 Rating, Deduct	-2,673.60		
		For Class 54 Rating, Add	3,680.42		
		For Class 55 Rating, Add	5,489.31		
		For Class 56 Rating, Add	7,273.90		
40 05 19 00-1009	EA	36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,036.94		1,906.24
		For Class 52 Rating, Deduct	-2,766.36		
		For Class 54 Rating, Add	3,806.96		
		For Class 55 Rating, Add	5,677.48		
		For Class 56 Rating, Add	7,522.84		
40 05 19 00-1010	EA	36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,885.51		1,909.76
		For Class 52 Rating, Deduct	-2,859.11		
		For Class 54 Rating, Add	3,933.51		
		For Class 55 Rating, Add	5,865.65		
		For Class 56 Rating, Add	7,771.79		
40 05 19 00-1011	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,734.07		1,913.28
		For Class 52 Rating, Deduct	-2,951.87		
		For Class 54 Rating, Add	4,060.06		
		For Class 55 Rating, Add	6,053.81		
		For Class 56 Rating, Add	8,020.73		
40 05 19 00-1012	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,582.64		1,916.81
		For Class 52 Rating, Deduct	-3,044.62		
		For Class 54 Rating, Add	4,186.61		
		For Class 55 Rating, Add	6,241.98		
		For Class 56 Rating, Add	8,269.68		
40 05 19 00-1013	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,431.20		1,920.33
		For Class 52 Rating, Deduct	-3,137.38		
		For Class 54 Rating, Add	4,313.16		
		For Class 55 Rating, Add	6,430.15		
		For Class 56 Rating, Add	8,518.62		
40 05 19 00-1014	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,279.77		1,923.87
		For Class 52 Rating, Deduct	-3,230.13		
		For Class 54 Rating, Add	4,439.70		
		For Class 55 Rating, Add	6,618.32		
		For Class 56 Rating, Add	8,767.56		
40 05 19 00-1015	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,128.34		1,927.39
		For Class 52 Rating, Deduct	-3,322.89		
		For Class 54 Rating, Add	4,566.25		
		For Class 55 Rating, Add	6,806.48		
		For Class 56 Rating, Add	9,016.51		
40 05 19 00-1016	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,976.90		1,930.91
		For Class 52 Rating, Deduct	-3,415.64		
		For Class 54 Rating, Add	4,692.80		
		For Class 55 Rating, Add	6,994.65		
		For Class 56 Rating, Add	9,265.45		
40 05 19 00-1017	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,825.47		1,934.44
		For Class 52 Rating, Deduct	-3,508.40		
		For Class 54 Rating, Add	4,819.35		
		For Class 55 Rating, Add	7,182.82		
		For Class 56 Rating, Add	9,514.40		
40 05 19 00-1018	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,674.03		1,937.96
		For Class 52 Rating, Deduct	-3,601.15		
		For Class 54 Rating, Add	4,945.90		
		For Class 55 Rating, Add	7,370.98		
		For Class 56 Rating, Add	9,763.34		
40 05 19 00-1019	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,522.60		1,941.48
		For Class 52 Rating, Deduct	-3,693.91		
		For Class 54 Rating, Add	5,072.44		
		For Class 55 Rating, Add	7,559.15		
		For Class 56 Rating, Add	10,012.28		
40 05 19 00-1020	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,371.15		1,945.01
		For Class 52 Rating, Deduct	-3,786.66		
		For Class 54 Rating, Add	5,198.99		
		For Class 55 Rating, Add	7,747.32		
		For Class 56 Rating, Add	10,261.22		
40 05 19 00-1021	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,219.72		1,948.53
		For Class 52 Rating, Deduct	-3,879.42		
		For Class 54 Rating, Add	5,325.54		
		For Class 55 Rating, Add	7,935.49		
		For Class 56 Rating, Add	10,510.17		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,068.28	1,952.05
			For Class 52 Rating, Deduct	-3,972.17	
			For Class 54 Rating, Add	5,452.09	
			For Class 55 Rating, Add	8,123.65	
			For Class 56 Rating, Add	10,759.11	
40 05 19 00-1023	EA		36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,916.85	1,955.58
			For Class 52 Rating, Deduct	-4,064.92	
			For Class 54 Rating, Add	5,578.63	
			For Class 55 Rating, Add	8,311.82	
			For Class 56 Rating, Add	11,008.06	
40 05 19 00-1024	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,765.42	1,959.10
			For Class 52 Rating, Deduct	-4,157.68	
			For Class 54 Rating, Add	5,705.18	
			For Class 55 Rating, Add	8,499.99	
			For Class 56 Rating, Add	11,257.00	
40 05 19 00-1025	EA		36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,613.98	1,962.62
			For Class 52 Rating, Deduct	-4,250.43	
			For Class 54 Rating, Add	5,831.73	
			For Class 55 Rating, Add	8,688.16	
			For Class 56 Rating, Add	11,505.94	
40 05 19 00-1026	EA		36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,462.54	1,966.15
			For Class 52 Rating, Deduct	-4,343.19	
			For Class 54 Rating, Add	5,958.28	
			For Class 55 Rating, Add	8,876.33	
			For Class 56 Rating, Add	11,754.89	
40 05 19 00-1027	EA		36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,311.10	1,969.67
			For Class 52 Rating, Deduct	-4,435.94	
			For Class 54 Rating, Add	6,084.83	
			For Class 55 Rating, Add	9,064.49	
			For Class 56 Rating, Add	12,003.83	
40 05 19 00-1028			Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0001)		
40 05 19 00-1029			4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1030	EA		4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	624.98	172.32
			For Class 52 Rating, Deduct	-40.03	
			For Class 54 Rating, Add	57.72	
			For Class 55 Rating, Add	87.41	
			For Class 56 Rating, Add	116.75	
40 05 19 00-1031	EA		4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	694.80	175.33
			For Class 52 Rating, Deduct	-47.21	
			For Class 54 Rating, Add	67.56	
			For Class 55 Rating, Add	102.07	
			For Class 56 Rating, Add	136.16	
40 05 19 00-1032	EA		4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	764.61	178.36
			For Class 52 Rating, Deduct	-54.38	
			For Class 54 Rating, Add	77.40	
			For Class 55 Rating, Add	116.73	
			For Class 56 Rating, Add	155.57	
40 05 19 00-1033	EA		4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	834.43	181.36
			For Class 52 Rating, Deduct	-61.56	
			For Class 54 Rating, Add	87.24	
			For Class 55 Rating, Add	131.39	
			For Class 56 Rating, Add	174.99	
40 05 19 00-1034	EA		4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	904.24	184.37
			For Class 52 Rating, Deduct	-68.74	
			For Class 54 Rating, Add	97.09	
			For Class 55 Rating, Add	146.05	
			For Class 56 Rating, Add	194.40	
40 05 19 00-1035	EA		4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	974.05	187.39
			For Class 52 Rating, Deduct	-75.92	
			For Class 54 Rating, Add	106.93	
			For Class 55 Rating, Add	160.72	
			For Class 56 Rating, Add	213.81	
40 05 19 00-1036	EA		4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,043.86	190.40
			For Class 52 Rating, Deduct	-83.09	
			For Class 54 Rating, Add	116.77	
			For Class 55 Rating, Add	175.38	
			For Class 56 Rating, Add	233.22	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1037	EA	4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,113.68		193.41
		For Class 52 Rating, Deduct		-90.27		
		For Class 54 Rating, Add		126.61		
		For Class 55 Rating, Add		190.04		
		For Class 56 Rating, Add		252.64		
40 05 19 00-1038	EA	4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,183.49		196.43
		For Class 52 Rating, Deduct		-97.45		
		For Class 54 Rating, Add		136.45		
		For Class 55 Rating, Add		204.70		
		For Class 56 Rating, Add		272.05		
40 05 19 00-1039	EA	4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,253.31		199.44
		For Class 52 Rating, Deduct		-104.63		
		For Class 54 Rating, Add		146.30		
		For Class 55 Rating, Add		219.36		
		For Class 56 Rating, Add		291.46		
40 05 19 00-1040	EA	4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,323.12		202.45
		For Class 52 Rating, Deduct		-111.80		
		For Class 54 Rating, Add		156.14		
		For Class 55 Rating, Add		234.02		
		For Class 56 Rating, Add		310.88		
40 05 19 00-1041	EA	4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,392.94		205.46
		For Class 52 Rating, Deduct		-118.98		
		For Class 54 Rating, Add		165.98		
		For Class 55 Rating, Add		248.68		
		For Class 56 Rating, Add		330.29		
40 05 19 00-1042	EA	4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,462.75		208.47
		For Class 52 Rating, Deduct		-126.16		
		For Class 54 Rating, Add		175.82		
		For Class 55 Rating, Add		263.34		
		For Class 56 Rating, Add		349.70		
40 05 19 00-1043	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,532.57		211.50
		For Class 52 Rating, Deduct		-133.34		
		For Class 54 Rating, Add		185.67		
		For Class 55 Rating, Add		278.00		
		For Class 56 Rating, Add		369.12		
40 05 19 00-1044	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,602.38		214.50
		For Class 52 Rating, Deduct		-140.51		
		For Class 54 Rating, Add		195.51		
		For Class 55 Rating, Add		292.66		
		For Class 56 Rating, Add		388.53		
40 05 19 00-1045	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,672.20		217.52
		For Class 52 Rating, Deduct		-147.69		
		For Class 54 Rating, Add		205.35		
		For Class 55 Rating, Add		307.32		
		For Class 56 Rating, Add		407.94		
40 05 19 00-1046	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,742.01		220.53
		For Class 52 Rating, Deduct		-154.87		
		For Class 54 Rating, Add		215.19		
		For Class 55 Rating, Add		321.98		
		For Class 56 Rating, Add		427.36		
40 05 19 00-1047	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,811.83		223.53
		For Class 52 Rating, Deduct		-162.05		
		For Class 54 Rating, Add		225.04		
		For Class 55 Rating, Add		336.64		
		For Class 56 Rating, Add		446.77		
40 05 19 00-1048	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,881.63		226.55
		For Class 52 Rating, Deduct		-169.22		
		For Class 54 Rating, Add		234.88		
		For Class 55 Rating, Add		351.30		
		For Class 56 Rating, Add		466.18		
40 05 19 00-1049	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		1,951.45		229.56
		For Class 52 Rating, Deduct		-176.40		
		For Class 54 Rating, Add		244.72		
		For Class 55 Rating, Add		365.96		
		For Class 56 Rating, Add		485.59		
40 05 19 00-1050	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,021.26		232.58
		For Class 52 Rating, Deduct		-183.58		
		For Class 54 Rating, Add		254.56		
		For Class 55 Rating, Add		380.62		
		For Class 56 Rating, Add		505.01		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1051	EA	4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,091.08	235.59
		For Class 52 Rating, Deduct	-190.75	
		For Class 54 Rating, Add	264.40	
		For Class 55 Rating, Add	395.28	
		For Class 56 Rating, Add	524.42	
40 05 19 00-1052	EA	4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,160.89	238.60
		For Class 52 Rating, Deduct	-197.93	
		For Class 54 Rating, Add	274.25	
		For Class 55 Rating, Add	409.94	
		For Class 56 Rating, Add	543.83	
40 05 19 00-1053	EA	4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,230.71	241.62
		For Class 52 Rating, Deduct	-205.11	
		For Class 54 Rating, Add	284.09	
		For Class 55 Rating, Add	424.60	
		For Class 56 Rating, Add	563.24	
40 05 19 00-1054	EA	4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,300.52	244.62
		For Class 52 Rating, Deduct	-212.29	
		For Class 54 Rating, Add	293.93	
		For Class 55 Rating, Add	439.26	
		For Class 56 Rating, Add	582.66	
40 05 19 00-1055	EA	4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,370.34	247.63
		For Class 52 Rating, Deduct	-219.46	
		For Class 54 Rating, Add	303.77	
		For Class 55 Rating, Add	453.92	
		For Class 56 Rating, Add	602.07	
40 05 19 00-1056	EA	4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,440.15	250.66
		For Class 52 Rating, Deduct	-226.64	
		For Class 54 Rating, Add	313.61	
		For Class 55 Rating, Add	468.58	
		For Class 56 Rating, Add	621.48	
40 05 19 00-1057	EA	4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,509.97	253.67
		For Class 52 Rating, Deduct	-233.82	
		For Class 54 Rating, Add	323.46	
		For Class 55 Rating, Add	483.24	
		For Class 56 Rating, Add	640.90	
40 05 19 00-1058	EA	4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,579.78	256.67
		For Class 52 Rating, Deduct	-241.00	
		For Class 54 Rating, Add	333.30	
		For Class 55 Rating, Add	497.90	
		For Class 56 Rating, Add	660.31	
40 05 19 00-1059	EA	4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,649.60	259.69
		For Class 52 Rating, Deduct	-248.17	
		For Class 54 Rating, Add	343.14	
		For Class 55 Rating, Add	512.56	
		For Class 56 Rating, Add	679.72	
40 05 19 00-1060	EA	4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,719.40	262.70
		For Class 52 Rating, Deduct	-255.35	
		For Class 54 Rating, Add	352.98	
		For Class 55 Rating, Add	527.22	
		For Class 56 Rating, Add	699.14	
40 05 19 00-1061	EA	4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,789.22	265.72
		For Class 52 Rating, Deduct	-262.53	
		For Class 54 Rating, Add	362.83	
		For Class 55 Rating, Add	541.88	
		For Class 56 Rating, Add	718.55	
40 05 19 00-1062	EA	4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,859.03	268.73
		For Class 52 Rating, Deduct	-269.71	
		For Class 54 Rating, Add	372.67	
		For Class 55 Rating, Add	556.54	
		For Class 56 Rating, Add	737.96	
40 05 19 00-1063	EA	4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,928.85	271.74
		For Class 52 Rating, Deduct	-276.88	
		For Class 54 Rating, Add	382.51	
		For Class 55 Rating, Add	571.20	
		For Class 56 Rating, Add	757.38	
40 05 19 00-1064	EA	4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,998.66	274.76
		For Class 52 Rating, Deduct	-284.06	
		For Class 54 Rating, Add	392.35	
		For Class 55 Rating, Add	585.86	
		For Class 56 Rating, Add	776.79	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1065	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,068.48		277.76
		For Class 52 Rating, Deduct		-291.24		
		For Class 54 Rating, Add		402.19		
		For Class 55 Rating, Add		600.52		
		For Class 56 Rating, Add		796.20		
40 05 19 00-1066	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,138.29		280.77
		For Class 52 Rating, Deduct		-298.42		
		For Class 54 Rating, Add		412.04		
		For Class 55 Rating, Add		615.18		
		For Class 56 Rating, Add		815.61		
40 05 19 00-1067	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,208.11		283.80
		For Class 52 Rating, Deduct		-305.59		
		For Class 54 Rating, Add		421.88		
		For Class 55 Rating, Add		629.84		
		For Class 56 Rating, Add		835.03		
40 05 19 00-1068	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		3,277.92		286.81
		For Class 52 Rating, Deduct		-312.77		
		For Class 54 Rating, Add		431.72		
		For Class 55 Rating, Add		644.50		
		For Class 56 Rating, Add		854.44		
40 05 19 00-1069		6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	(40 05 19 00-1028)			
40 05 19 00-1070	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		782.89		216.92
		For Class 52 Rating, Deduct		-49.97		
		For Class 54 Rating, Add		72.08		
		For Class 55 Rating, Add		109.18		
		For Class 56 Rating, Add		145.83		
40 05 19 00-1071	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		867.75		219.93
		For Class 52 Rating, Deduct		-58.80		
		For Class 54 Rating, Add		84.18		
		For Class 55 Rating, Add		127.20		
		For Class 56 Rating, Add		169.68		
40 05 19 00-1072	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		952.63		222.93
		For Class 52 Rating, Deduct		-67.63		
		For Class 54 Rating, Add		96.28		
		For Class 55 Rating, Add		145.22		
		For Class 56 Rating, Add		193.54		
40 05 19 00-1073	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,037.50		225.95
		For Class 52 Rating, Deduct		-76.47		
		For Class 54 Rating, Add		108.38		
		For Class 55 Rating, Add		163.24		
		For Class 56 Rating, Add		217.40		
40 05 19 00-1074	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,122.38		228.96
		For Class 52 Rating, Deduct		-85.30		
		For Class 54 Rating, Add		120.48		
		For Class 55 Rating, Add		181.26		
		For Class 56 Rating, Add		241.25		
40 05 19 00-1075	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,207.24		231.96
		For Class 52 Rating, Deduct		-94.13		
		For Class 54 Rating, Add		132.58		
		For Class 55 Rating, Add		199.27		
		For Class 56 Rating, Add		265.11		
40 05 19 00-1076	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,292.12		234.99
		For Class 52 Rating, Deduct		-102.97		
		For Class 54 Rating, Add		144.68		
		For Class 55 Rating, Add		217.29		
		For Class 56 Rating, Add		288.96		
40 05 19 00-1077	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,376.99		238.00
		For Class 52 Rating, Deduct		-111.80		
		For Class 54 Rating, Add		156.79		
		For Class 55 Rating, Add		235.31		
		For Class 56 Rating, Add		312.82		
40 05 19 00-1078	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron				
		Pipe		1,461.87		241.02
		For Class 52 Rating, Deduct		-120.64		
		For Class 54 Rating, Add		168.89		
		For Class 55 Rating, Add		253.33		
		For Class 56 Rating, Add		336.67		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1079	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,546.73	244.02
		For Class 52 Rating, Deduct	-129.47	
		For Class 54 Rating, Add	180.99	
		For Class 55 Rating, Add	271.34	
		For Class 56 Rating, Add	360.53	
40 05 19 00-1080	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,631.61	247.03
		For Class 52 Rating, Deduct	-138.30	
		For Class 54 Rating, Add	193.09	
		For Class 55 Rating, Add	289.36	
		For Class 56 Rating, Add	384.38	
40 05 19 00-1081	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,716.48	250.05
		For Class 52 Rating, Deduct	-147.14	
		For Class 54 Rating, Add	205.19	
		For Class 55 Rating, Add	307.38	
		For Class 56 Rating, Add	408.24	
40 05 19 00-1082	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,801.35	253.06
		For Class 52 Rating, Deduct	-155.97	
		For Class 54 Rating, Add	217.29	
		For Class 55 Rating, Add	325.40	
		For Class 56 Rating, Add	432.09	
40 05 19 00-1083	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,886.22	256.07
		For Class 52 Rating, Deduct	-164.61	
		For Class 54 Rating, Add	229.39	
		For Class 55 Rating, Add	343.42	
		For Class 56 Rating, Add	455.95	
40 05 19 00-1084	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,971.10	259.09
		For Class 52 Rating, Deduct	-173.64	
		For Class 54 Rating, Add	241.49	
		For Class 55 Rating, Add	361.44	
		For Class 56 Rating, Add	479.80	
40 05 19 00-1085	EA	6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,055.97	262.10
		For Class 52 Rating, Deduct	-182.47	
		For Class 54 Rating, Add	253.59	
		For Class 55 Rating, Add	379.45	
		For Class 56 Rating, Add	503.66	
40 05 19 00-1086	EA	6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,140.84	265.11
		For Class 52 Rating, Deduct	-191.31	
		For Class 54 Rating, Add	265.69	
		For Class 55 Rating, Add	397.47	
		For Class 56 Rating, Add	527.51	
40 05 19 00-1087	EA	6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,225.70	268.12
		For Class 52 Rating, Deduct	-200.14	
		For Class 54 Rating, Add	277.79	
		For Class 55 Rating, Add	415.49	
		For Class 56 Rating, Add	551.37	
40 05 19 00-1088	EA	6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,310.58	271.14
		For Class 52 Rating, Deduct	-208.97	
		For Class 54 Rating, Add	289.90	
		For Class 55 Rating, Add	433.51	
		For Class 56 Rating, Add	575.22	
40 05 19 00-1089	EA	6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,395.44	274.16
		For Class 52 Rating, Deduct	-217.81	
		For Class 54 Rating, Add	301.99	
		For Class 55 Rating, Add	451.52	
		For Class 56 Rating, Add	599.07	
40 05 19 00-1090	EA	6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,480.32	277.16
		For Class 52 Rating, Deduct	-226.64	
		For Class 54 Rating, Add	314.10	
		For Class 55 Rating, Add	469.54	
		For Class 56 Rating, Add	622.93	
40 05 19 00-1091	EA	6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,565.19	280.17
		For Class 52 Rating, Deduct	-235.48	
		For Class 54 Rating, Add	326.20	
		For Class 55 Rating, Add	487.56	
		For Class 56 Rating, Add	646.79	
40 05 19 00-1092	EA	6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,650.07	283.19
		For Class 52 Rating, Deduct	-244.31	
		For Class 54 Rating, Add	338.30	
		For Class 55 Rating, Add	505.58	
		For Class 56 Rating, Add	670.64	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1093	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,734.93		286.19
		For Class 52 Rating, Deduct		-253.14		
		For Class 54 Rating, Add		350.40		
		For Class 55 Rating, Add		523.60		
		For Class 56 Rating, Add		694.49		
40 05 19 00-1094	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,819.81		289.22
		For Class 52 Rating, Deduct		-261.98		
		For Class 54 Rating, Add		362.50		
		For Class 55 Rating, Add		541.62		
		For Class 56 Rating, Add		718.35		
40 05 19 00-1095	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,904.68		292.23
		For Class 52 Rating, Deduct		-270.81		
		For Class 54 Rating, Add		374.60		
		For Class 55 Rating, Add		559.63		
		For Class 56 Rating, Add		742.21		
40 05 19 00-1096	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,989.55		295.24
		For Class 52 Rating, Deduct		-279.64		
		For Class 54 Rating, Add		386.70		
		For Class 55 Rating, Add		577.65		
		For Class 56 Rating, Add		766.06		
40 05 19 00-1097	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,074.42		298.25
		For Class 52 Rating, Deduct		-288.48		
		For Class 54 Rating, Add		398.80		
		For Class 55 Rating, Add		595.67		
		For Class 56 Rating, Add		789.91		
40 05 19 00-1098	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,159.30		301.26
		For Class 52 Rating, Deduct		-297.31		
		For Class 54 Rating, Add		410.90		
		For Class 55 Rating, Add		613.69		
		For Class 56 Rating, Add		813.77		
40 05 19 00-1099	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,244.17		304.28
		For Class 52 Rating, Deduct		-306.15		
		For Class 54 Rating, Add		423.00		
		For Class 55 Rating, Add		631.71		
		For Class 56 Rating, Add		837.63		
40 05 19 00-1100	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,329.04		307.29
		For Class 52 Rating, Deduct		-314.98		
		For Class 54 Rating, Add		435.10		
		For Class 55 Rating, Add		649.72		
		For Class 56 Rating, Add		861.48		
40 05 19 00-1101	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,413.91		310.30
		For Class 52 Rating, Deduct		-323.81		
		For Class 54 Rating, Add		447.21		
		For Class 55 Rating, Add		667.74		
		For Class 56 Rating, Add		885.33		
40 05 19 00-1102	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,498.79		313.31
		For Class 52 Rating, Deduct		-332.65		
		For Class 54 Rating, Add		459.31		
		For Class 55 Rating, Add		685.76		
		For Class 56 Rating, Add		909.19		
40 05 19 00-1103	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,583.66		316.33
		For Class 52 Rating, Deduct		-341.48		
		For Class 54 Rating, Add		471.41		
		For Class 55 Rating, Add		703.78		
		For Class 56 Rating, Add		933.05		
40 05 19 00-1104	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,668.53		319.33
		For Class 52 Rating, Deduct		-350.31		
		For Class 54 Rating, Add		483.51		
		For Class 55 Rating, Add		721.80		
		For Class 56 Rating, Add		956.90		
40 05 19 00-1105	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,753.40		322.36
		For Class 52 Rating, Deduct		-359.15		
		For Class 54 Rating, Add		495.61		
		For Class 55 Rating, Add		739.81		
		For Class 56 Rating, Add		980.75		
40 05 19 00-1106	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,838.28		325.37
		For Class 52 Rating, Deduct		-367.98		
		For Class 54 Rating, Add		507.71		
		For Class 55 Rating, Add		757.83		
		For Class 56 Rating, Add		1,004.61		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107	EA		6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,923.14	328.37
			For Class 52 Rating, Deduct	-376.82	
			For Class 54 Rating, Add	519.81	
			For Class 55 Rating, Add	775.85	
			For Class 56 Rating, Add	1,028.46	
40 05 19 00-1108	EA		6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,008.02	331.39
			For Class 52 Rating, Deduct	-385.65	
			For Class 54 Rating, Add	531.91	
			For Class 55 Rating, Add	793.87	
			For Class 56 Rating, Add	1,052.32	
40 05 19 00-1109			8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1110	EA		8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,079.96	277.16
			For Class 52 Rating, Deduct	-72.60	
			For Class 54 Rating, Add	104.04	
			For Class 55 Rating, Add	157.26	
			For Class 56 Rating, Add	209.82	
40 05 19 00-1111	EA		8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,194.95	280.17
			For Class 52 Rating, Deduct	-84.75	
			For Class 54 Rating, Add	120.66	
			For Class 55 Rating, Add	182.00	
			For Class 56 Rating, Add	242.56	
40 05 19 00-1112	EA		8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,309.94	283.19
			For Class 52 Rating, Deduct	-96.90	
			For Class 54 Rating, Add	137.28	
			For Class 55 Rating, Add	206.73	
			For Class 56 Rating, Add	275.30	
40 05 19 00-1113	EA		8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,424.92	286.19
			For Class 52 Rating, Deduct	-109.04	
			For Class 54 Rating, Add	153.90	
			For Class 55 Rating, Add	231.46	
			For Class 56 Rating, Add	308.04	
40 05 19 00-1114	EA		8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,539.91	289.22
			For Class 52 Rating, Deduct	-121.19	
			For Class 54 Rating, Add	170.51	
			For Class 55 Rating, Add	256.20	
			For Class 56 Rating, Add	340.78	
40 05 19 00-1115	EA		8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,654.90	292.23
			For Class 52 Rating, Deduct	-133.34	
			For Class 54 Rating, Add	187.13	
			For Class 55 Rating, Add	280.93	
			For Class 56 Rating, Add	373.52	
40 05 19 00-1116	EA		8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,769.89	295.24
			For Class 52 Rating, Deduct	-145.48	
			For Class 54 Rating, Add	203.75	
			For Class 55 Rating, Add	305.67	
			For Class 56 Rating, Add	406.26	
40 05 19 00-1117	EA		8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,884.87	298.25
			For Class 52 Rating, Deduct	-157.63	
			For Class 54 Rating, Add	220.37	
			For Class 55 Rating, Add	330.40	
			For Class 56 Rating, Add	439.00	
40 05 19 00-1118	EA		8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,999.86	301.26
			For Class 52 Rating, Deduct	-169.77	
			For Class 54 Rating, Add	236.99	
			For Class 55 Rating, Add	355.13	
			For Class 56 Rating, Add	471.74	
40 05 19 00-1119	EA		8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,114.85	304.28
			For Class 52 Rating, Deduct	-181.92	
			For Class 54 Rating, Add	253.61	
			For Class 55 Rating, Add	379.87	
			For Class 56 Rating, Add	504.48	
40 05 19 00-1120	EA		8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,229.84	307.29
			For Class 52 Rating, Deduct	-194.07	
			For Class 54 Rating, Add	270.22	
			For Class 55 Rating, Add	404.60	
			For Class 56 Rating, Add	537.21	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1121	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,344.82		310.30
		For Class 52 Rating, Deduct		-206.21		
		For Class 54 Rating, Add		286.84		
		For Class 55 Rating, Add		429.34		
		For Class 56 Rating, Add		569.95		
40 05 19 00-1122	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,459.81		313.31
		For Class 52 Rating, Deduct		-218.36		
		For Class 54 Rating, Add		303.46		
		For Class 55 Rating, Add		454.07		
		For Class 56 Rating, Add		602.69		
40 05 19 00-1123	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,574.80		316.33
		For Class 52 Rating, Deduct		-230.51		
		For Class 54 Rating, Add		320.08		
		For Class 55 Rating, Add		478.80		
		For Class 56 Rating, Add		635.43		
40 05 19 00-1124	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,689.79		319.33
		For Class 52 Rating, Deduct		-242.65		
		For Class 54 Rating, Add		336.70		
		For Class 55 Rating, Add		503.54		
		For Class 56 Rating, Add		668.17		
40 05 19 00-1125	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,804.77		322.36
		For Class 52 Rating, Deduct		-254.80		
		For Class 54 Rating, Add		353.31		
		For Class 55 Rating, Add		528.27		
		For Class 56 Rating, Add		700.91		
40 05 19 00-1126	EA	8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,919.76		325.37
		For Class 52 Rating, Deduct		-266.95		
		For Class 54 Rating, Add		369.93		
		For Class 55 Rating, Add		553.00		
		For Class 56 Rating, Add		733.65		
40 05 19 00-1127	EA	8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,034.75		328.37
		For Class 52 Rating, Deduct		-279.09		
		For Class 54 Rating, Add		386.55		
		For Class 55 Rating, Add		577.74		
		For Class 56 Rating, Add		766.39		
40 05 19 00-1128	EA	8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,149.74		331.39
		For Class 52 Rating, Deduct		-291.24		
		For Class 54 Rating, Add		403.17		
		For Class 55 Rating, Add		602.47		
		For Class 56 Rating, Add		799.13		
40 05 19 00-1129	EA	8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,264.72		334.40
		For Class 52 Rating, Deduct		-303.39		
		For Class 54 Rating, Add		419.79		
		For Class 55 Rating, Add		627.21		
		For Class 56 Rating, Add		831.86		
40 05 19 00-1130	EA	8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,379.71		337.42
		For Class 52 Rating, Deduct		-315.53		
		For Class 54 Rating, Add		436.41		
		For Class 55 Rating, Add		651.94		
		For Class 56 Rating, Add		864.60		
40 05 19 00-1131	EA	8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,494.70		340.43
		For Class 52 Rating, Deduct		-327.68		
		For Class 54 Rating, Add		453.02		
		For Class 55 Rating, Add		676.67		
		For Class 56 Rating, Add		897.34		
40 05 19 00-1132	EA	8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,609.69		343.44
		For Class 52 Rating, Deduct		-339.83		
		For Class 54 Rating, Add		469.64		
		For Class 55 Rating, Add		701.41		
		For Class 56 Rating, Add		930.08		
40 05 19 00-1133	EA	8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,724.66		346.46
		For Class 52 Rating, Deduct		-351.97		
		For Class 54 Rating, Add		486.26		
		For Class 55 Rating, Add		726.14		
		For Class 56 Rating, Add		962.82		
40 05 19 00-1134	EA	8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,839.65		349.47
		For Class 52 Rating, Deduct		-364.12		
		For Class 54 Rating, Add		502.88		
		For Class 55 Rating, Add		750.87		
		For Class 56 Rating, Add		995.56		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1135	EA	8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,954.63	352.47
		For Class 52 Rating, Deduct	-376.26	
		For Class 54 Rating, Add	519.50	
		For Class 55 Rating, Add	775.61	
		For Class 56 Rating, Add	1,028.30	
40 05 19 00-1136	EA	8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,069.63	355.50
		For Class 52 Rating, Deduct	-388.41	
		For Class 54 Rating, Add	536.11	
		For Class 55 Rating, Add	800.34	
		For Class 56 Rating, Add	1,061.04	
40 05 19 00-1137	EA	8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,184.61	358.51
		For Class 52 Rating, Deduct	-400.56	
		For Class 54 Rating, Add	552.73	
		For Class 55 Rating, Add	825.08	
		For Class 56 Rating, Add	1,093.78	
40 05 19 00-1138	EA	8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,299.60	361.51
		For Class 52 Rating, Deduct	-412.70	
		For Class 54 Rating, Add	569.35	
		For Class 55 Rating, Add	849.81	
		For Class 56 Rating, Add	1,126.51	
40 05 19 00-1139	EA	8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,414.58	364.53
		For Class 52 Rating, Deduct	-424.85	
		For Class 54 Rating, Add	585.97	
		For Class 55 Rating, Add	874.54	
		For Class 56 Rating, Add	1,159.25	
40 05 19 00-1140	EA	8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,529.58	367.54
		For Class 52 Rating, Deduct	-437.00	
		For Class 54 Rating, Add	602.59	
		For Class 55 Rating, Add	899.28	
		For Class 56 Rating, Add	1,191.99	
40 05 19 00-1141	EA	8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,644.56	370.56
		For Class 52 Rating, Deduct	-449.14	
		For Class 54 Rating, Add	619.21	
		For Class 55 Rating, Add	924.01	
		For Class 56 Rating, Add	1,224.73	
40 05 19 00-1142	EA	8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,759.55	373.57
		For Class 52 Rating, Deduct	-461.29	
		For Class 54 Rating, Add	635.82	
		For Class 55 Rating, Add	948.74	
		For Class 56 Rating, Add	1,257.47	
40 05 19 00-1143	EA	8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,874.53	376.58
		For Class 52 Rating, Deduct	-473.44	
		For Class 54 Rating, Add	652.44	
		For Class 55 Rating, Add	973.48	
		For Class 56 Rating, Add	1,290.21	
40 05 19 00-1144	EA	8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,989.53	379.60
		For Class 52 Rating, Deduct	-485.58	
		For Class 54 Rating, Add	669.06	
		For Class 55 Rating, Add	998.21	
		For Class 56 Rating, Add	1,322.95	
40 05 19 00-1145	EA	8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,104.51	382.60
		For Class 52 Rating, Deduct	-497.73	
		For Class 54 Rating, Add	685.68	
		For Class 55 Rating, Add	1,022.95	
		For Class 56 Rating, Add	1,355.69	
40 05 19 00-1146	EA	8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,219.50	385.61
		For Class 52 Rating, Deduct	-509.88	
		For Class 54 Rating, Add	702.30	
		For Class 55 Rating, Add	1,047.68	
		For Class 56 Rating, Add	1,388.43	
40 05 19 00-1147	EA	8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,334.48	388.63
		For Class 52 Rating, Deduct	-522.02	
		For Class 54 Rating, Add	718.91	
		For Class 55 Rating, Add	1,072.41	
		For Class 56 Rating, Add	1,421.16	
40 05 19 00-1148	EA	8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,449.48	391.65
		For Class 52 Rating, Deduct	-534.17	
		For Class 54 Rating, Add	735.53	
		For Class 55 Rating, Add	1,097.15	
		For Class 56 Rating, Add	1,453.91	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1149	10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)			
40 05 19 00-1150	EA 10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,361.99		337.42
	For Class 52 Rating, Deduct	-93.58		
	For Class 54 Rating, Add	133.75		
	For Class 55 Rating, Add	201.99		
	For Class 56 Rating, Add	269.38		
40 05 19 00-1151	EA 10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,512.11		340.43
	For Class 52 Rating, Deduct	-109.59		
	For Class 54 Rating, Add	155.64		
	For Class 55 Rating, Add	234.56		
	For Class 56 Rating, Add	312.48		
40 05 19 00-1152	EA 10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,662.24		343.44
	For Class 52 Rating, Deduct	-125.61		
	For Class 54 Rating, Add	177.52		
	For Class 55 Rating, Add	267.13		
	For Class 56 Rating, Add	355.58		
40 05 19 00-1153	EA 10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,812.34		346.46
	For Class 52 Rating, Deduct	-141.62		
	For Class 54 Rating, Add	199.41		
	For Class 55 Rating, Add	299.69		
	For Class 56 Rating, Add	398.69		
40 05 19 00-1154	EA 10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,962.47		349.47
	For Class 52 Rating, Deduct	-157.63		
	For Class 54 Rating, Add	221.30		
	For Class 55 Rating, Add	332.26		
	For Class 56 Rating, Add	441.79		
40 05 19 00-1155	EA 10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,112.59		352.47
	For Class 52 Rating, Deduct	-173.64		
	For Class 54 Rating, Add	243.19		
	For Class 55 Rating, Add	364.83		
	For Class 56 Rating, Add	484.90		
40 05 19 00-1156	EA 10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,262.72		355.50
	For Class 52 Rating, Deduct	-189.65		
	For Class 54 Rating, Add	265.08		
	For Class 55 Rating, Add	397.40		
	For Class 56 Rating, Add	528.00		
40 05 19 00-1157	EA 10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,412.83		358.51
	For Class 52 Rating, Deduct	-205.66		
	For Class 54 Rating, Add	286.97		
	For Class 55 Rating, Add	429.97		
	For Class 56 Rating, Add	571.10		
40 05 19 00-1158	EA 10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,562.96		361.51
	For Class 52 Rating, Deduct	-221.67		
	For Class 54 Rating, Add	308.85		
	For Class 55 Rating, Add	462.54		
	For Class 56 Rating, Add	614.21		
40 05 19 00-1159	EA 10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,713.08		364.53
	For Class 52 Rating, Deduct	-237.68		
	For Class 54 Rating, Add	330.74		
	For Class 55 Rating, Add	495.11		
	For Class 56 Rating, Add	657.31		
40 05 19 00-1160	EA 10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,863.20		367.54
	For Class 52 Rating, Deduct	-253.70		
	For Class 54 Rating, Add	352.63		
	For Class 55 Rating, Add	527.67		
	For Class 56 Rating, Add	700.41		
40 05 19 00-1161	EA 10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,013.32		370.56
	For Class 52 Rating, Deduct	-269.71		
	For Class 54 Rating, Add	374.52		
	For Class 55 Rating, Add	560.24		
	For Class 56 Rating, Add	743.52		
40 05 19 00-1162	EA 10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,163.45		373.57
	For Class 52 Rating, Deduct	-285.72		
	For Class 54 Rating, Add	396.41		
	For Class 55 Rating, Add	592.81		
	For Class 56 Rating, Add	786.62		
40 05 19 00-1163	EA 10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,313.56		376.58
	For Class 52 Rating, Deduct	-301.73		
	For Class 54 Rating, Add	418.30		
	For Class 55 Rating, Add	625.38		
	For Class 56 Rating, Add	829.72		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1164	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,463.69	379.60
		For Class 52 Rating, Deduct	-317.74	
		For Class 54 Rating, Add	440.18	
		For Class 55 Rating, Add	657.95	
		For Class 56 Rating, Add	872.83	
40 05 19 00-1165	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,613.81	382.60
		For Class 52 Rating, Deduct	-333.75	
		For Class 54 Rating, Add	462.07	
		For Class 55 Rating, Add	690.52	
		For Class 56 Rating, Add	915.93	
40 05 19 00-1166	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,763.93	385.61
		For Class 52 Rating, Deduct	-349.76	
		For Class 54 Rating, Add	483.96	
		For Class 55 Rating, Add	723.09	
		For Class 56 Rating, Add	959.03	
40 05 19 00-1167	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,914.05	388.63
		For Class 52 Rating, Deduct	-365.77	
		For Class 54 Rating, Add	505.85	
		For Class 55 Rating, Add	755.66	
		For Class 56 Rating, Add	1,002.14	
40 05 19 00-1168	EA	10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,064.18	391.65
		For Class 52 Rating, Deduct	-381.79	
		For Class 54 Rating, Add	527.74	
		For Class 55 Rating, Add	788.23	
		For Class 56 Rating, Add	1,045.24	
40 05 19 00-1169	EA	10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,214.29	394.65
		For Class 52 Rating, Deduct	-397.80	
		For Class 54 Rating, Add	549.63	
		For Class 55 Rating, Add	820.79	
		For Class 56 Rating, Add	1,088.34	
40 05 19 00-1170	EA	10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,364.42	397.67
		For Class 52 Rating, Deduct	-413.81	
		For Class 54 Rating, Add	571.51	
		For Class 55 Rating, Add	853.36	
		For Class 56 Rating, Add	1,131.45	
40 05 19 00-1171	EA	10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,514.54	400.68
		For Class 52 Rating, Deduct	-429.82	
		For Class 54 Rating, Add	593.40	
		For Class 55 Rating, Add	885.93	
		For Class 56 Rating, Add	1,174.55	
40 05 19 00-1172	EA	10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,664.66	403.69
		For Class 52 Rating, Deduct	-445.83	
		For Class 54 Rating, Add	615.29	
		For Class 55 Rating, Add	918.50	
		For Class 56 Rating, Add	1,217.65	
40 05 19 00-1173	EA	10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,814.78	406.70
		For Class 52 Rating, Deduct	-461.84	
		For Class 54 Rating, Add	637.18	
		For Class 55 Rating, Add	951.07	
		For Class 56 Rating, Add	1,260.76	
40 05 19 00-1174	EA	10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,964.91	409.72
		For Class 52 Rating, Deduct	-477.85	
		For Class 54 Rating, Add	659.07	
		For Class 55 Rating, Add	983.64	
		For Class 56 Rating, Add	1,303.86	
40 05 19 00-1175	EA	10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,115.02	412.74
		For Class 52 Rating, Deduct	-493.86	
		For Class 54 Rating, Add	680.95	
		For Class 55 Rating, Add	1,016.20	
		For Class 56 Rating, Add	1,346.97	
40 05 19 00-1176	EA	10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,265.15	415.74
		For Class 52 Rating, Deduct	-509.88	
		For Class 54 Rating, Add	702.84	
		For Class 55 Rating, Add	1,048.77	
		For Class 56 Rating, Add	1,390.07	
40 05 19 00-1177	EA	10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,415.27	418.75
		For Class 52 Rating, Deduct	-525.89	
		For Class 54 Rating, Add	724.73	
		For Class 55 Rating, Add	1,081.34	
		For Class 56 Rating, Add	1,433.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1178	EA	10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,565.38		421.77
		For Class 52 Rating, Deduct	-541.90		
		For Class 54 Rating, Add	746.62		
		For Class 55 Rating, Add	1,113.91		
		For Class 56 Rating, Add	1,476.28		
40 05 19 00-1179	EA	10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,715.50		424.79
		For Class 52 Rating, Deduct	-557.91		
		For Class 54 Rating, Add	768.51		
		For Class 55 Rating, Add	1,146.48		
		For Class 56 Rating, Add	1,519.38		
40 05 19 00-1180	EA	10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,865.63		427.79
		For Class 52 Rating, Deduct	-573.92		
		For Class 54 Rating, Add	790.40		
		For Class 55 Rating, Add	1,179.05		
		For Class 56 Rating, Add	1,562.48		
40 05 19 00-1181	EA	10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,015.75		430.81
		For Class 52 Rating, Deduct	-589.93		
		For Class 54 Rating, Add	812.29		
		For Class 55 Rating, Add	1,211.62		
		For Class 56 Rating, Add	1,605.59		
40 05 19 00-1182	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,165.87		433.82
		For Class 52 Rating, Deduct	-605.94		
		For Class 54 Rating, Add	834.17		
		For Class 55 Rating, Add	1,244.19		
		For Class 56 Rating, Add	1,648.69		
40 05 19 00-1183	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,315.99		436.83
		For Class 52 Rating, Deduct	-621.95		
		For Class 54 Rating, Add	856.06		
		For Class 55 Rating, Add	1,276.76		
		For Class 56 Rating, Add	1,691.80		
40 05 19 00-1184	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,466.12		439.84
		For Class 52 Rating, Deduct	-637.97		
		For Class 54 Rating, Add	877.95		
		For Class 55 Rating, Add	1,309.33		
		For Class 56 Rating, Add	1,734.90		
40 05 19 00-1185	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,616.23		442.86
		For Class 52 Rating, Deduct	-653.98		
		For Class 54 Rating, Add	899.84		
		For Class 55 Rating, Add	1,341.89		
		For Class 56 Rating, Add	1,778.00		
40 05 19 00-1186	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,766.36		445.88
		For Class 52 Rating, Deduct	-669.99		
		For Class 54 Rating, Add	921.73		
		For Class 55 Rating, Add	1,374.46		
		For Class 56 Rating, Add	1,821.11		
40 05 19 00-1187	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,916.48		448.88
		For Class 52 Rating, Deduct	-686.00		
		For Class 54 Rating, Add	943.62		
		For Class 55 Rating, Add	1,407.03		
		For Class 56 Rating, Add	1,864.21		
40 05 19 00-1188	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,066.60		451.89
		For Class 52 Rating, Deduct	-702.01		
		For Class 54 Rating, Add	965.50		
		For Class 55 Rating, Add	1,439.60		
		For Class 56 Rating, Add	1,907.31		
40 05 19 00-1189		12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe			
40 05 19 00-1190	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,773.38		421.77
		For Class 52 Rating, Deduct	-124.78		
		For Class 54 Rating, Add	177.82		
		For Class 55 Rating, Add	268.29		
		For Class 56 Rating, Add	357.64		
40 05 19 00-1191	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,961.14		424.79
		For Class 52 Rating, Deduct	-144.93		
		For Class 54 Rating, Add	205.35		
		For Class 55 Rating, Add	309.26		
		For Class 56 Rating, Add	411.84		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1192	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,148.91	427.79
		For Class 52 Rating, Deduct	-165.08	
		For Class 54 Rating, Add	232.89	
		For Class 55 Rating, Add	350.22	
		For Class 56 Rating, Add	466.05	
40 05 19 00-1193	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,336.67	430.81
		For Class 52 Rating, Deduct	-185.23	
		For Class 54 Rating, Add	260.42	
		For Class 55 Rating, Add	391.18	
		For Class 56 Rating, Add	520.26	
40 05 19 00-1194	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,524.44	433.82
		For Class 52 Rating, Deduct	-205.39	
		For Class 54 Rating, Add	287.96	
		For Class 55 Rating, Add	432.15	
		For Class 56 Rating, Add	574.47	
40 05 19 00-1195	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,712.20	436.83
		For Class 52 Rating, Deduct	-225.54	
		For Class 54 Rating, Add	315.49	
		For Class 55 Rating, Add	473.11	
		For Class 56 Rating, Add	628.68	
40 05 19 00-1196	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,899.97	439.84
		For Class 52 Rating, Deduct	-245.69	
		For Class 54 Rating, Add	343.03	
		For Class 55 Rating, Add	514.07	
		For Class 56 Rating, Add	682.89	
40 05 19 00-1197	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,087.73	442.86
		For Class 52 Rating, Deduct	-265.84	
		For Class 54 Rating, Add	370.56	
		For Class 55 Rating, Add	555.04	
		For Class 56 Rating, Add	737.09	
40 05 19 00-1198	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,275.51	445.88
		For Class 52 Rating, Deduct	-285.99	
		For Class 54 Rating, Add	398.10	
		For Class 55 Rating, Add	596.00	
		For Class 56 Rating, Add	791.31	
40 05 19 00-1199	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,463.27	448.88
		For Class 52 Rating, Deduct	-306.15	
		For Class 54 Rating, Add	425.63	
		For Class 55 Rating, Add	636.97	
		For Class 56 Rating, Add	845.51	
40 05 19 00-1200	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,651.04	451.89
		For Class 52 Rating, Deduct	-326.30	
		For Class 54 Rating, Add	453.17	
		For Class 55 Rating, Add	677.93	
		For Class 56 Rating, Add	899.72	
40 05 19 00-1201	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,838.80	454.91
		For Class 52 Rating, Deduct	-346.45	
		For Class 54 Rating, Add	480.70	
		For Class 55 Rating, Add	718.89	
		For Class 56 Rating, Add	953.93	
40 05 19 00-1202	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,026.57	457.91
		For Class 52 Rating, Deduct	-366.60	
		For Class 54 Rating, Add	508.24	
		For Class 55 Rating, Add	759.85	
		For Class 56 Rating, Add	1,008.14	
40 05 19 00-1203	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,214.33	460.94
		For Class 52 Rating, Deduct	-386.75	
		For Class 54 Rating, Add	535.77	
		For Class 55 Rating, Add	800.82	
		For Class 56 Rating, Add	1,062.35	
40 05 19 00-1204	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,402.10	463.95
		For Class 52 Rating, Deduct	-406.91	
		For Class 54 Rating, Add	563.31	
		For Class 55 Rating, Add	841.78	
		For Class 56 Rating, Add	1,116.56	
40 05 19 00-1205	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,589.86	466.96
		For Class 52 Rating, Deduct	-427.06	
		For Class 54 Rating, Add	590.84	
		For Class 55 Rating, Add	882.74	
		For Class 56 Rating, Add	1,170.76	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-1206	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,777.63	469.97
		For Class 52 Rating, Deduct	.....	-447.21	
		For Class 54 Rating, Add	.....	618.38	
		For Class 55 Rating, Add	.....	923.71	
		For Class 56 Rating, Add	.....	1,224.97	
40 05 19 00-1207	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,965.39	472.98
		For Class 52 Rating, Deduct	.....	-467.36	
		For Class 54 Rating, Add	.....	645.91	
		For Class 55 Rating, Add	.....	964.67	
		For Class 56 Rating, Add	.....	1,279.18	
40 05 19 00-1208	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,153.16	476.00
		For Class 52 Rating, Deduct	.....	-487.51	
		For Class 54 Rating, Add	.....	673.45	
		For Class 55 Rating, Add	.....	1,005.63	
		For Class 56 Rating, Add	.....	1,333.39	
40 05 19 00-1209	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,340.92	479.01
		For Class 52 Rating, Deduct	.....	-507.67	
		For Class 54 Rating, Add	.....	700.98	
		For Class 55 Rating, Add	.....	1,046.60	
		For Class 56 Rating, Add	.....	1,387.60	
40 05 19 00-1210	EA	12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,528.70	482.02
		For Class 52 Rating, Deduct	.....	-527.82	
		For Class 54 Rating, Add	.....	728.52	
		For Class 55 Rating, Add	.....	1,087.56	
		For Class 56 Rating, Add	.....	1,441.81	
40 05 19 00-1211	EA	12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,716.46	485.04
		For Class 52 Rating, Deduct	.....	-547.97	
		For Class 54 Rating, Add	.....	756.05	
		For Class 55 Rating, Add	.....	1,128.53	
		For Class 56 Rating, Add	.....	1,496.02	
40 05 19 00-1212	EA	12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,904.23	488.05
		For Class 52 Rating, Deduct	.....	-568.12	
		For Class 54 Rating, Add	.....	783.59	
		For Class 55 Rating, Add	.....	1,169.49	
		For Class 56 Rating, Add	.....	1,550.23	
40 05 19 00-1213	EA	12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,091.99	491.05
		For Class 52 Rating, Deduct	.....	-588.28	
		For Class 54 Rating, Add	.....	811.12	
		For Class 55 Rating, Add	.....	1,210.45	
		For Class 56 Rating, Add	.....	1,604.43	
40 05 19 00-1214	EA	12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,279.76	494.08
		For Class 52 Rating, Deduct	.....	-608.43	
		For Class 54 Rating, Add	.....	838.66	
		For Class 55 Rating, Add	.....	1,251.42	
		For Class 56 Rating, Add	.....	1,658.64	
40 05 19 00-1215	EA	12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,467.51	497.09
		For Class 52 Rating, Deduct	.....	-628.58	
		For Class 54 Rating, Add	.....	866.19	
		For Class 55 Rating, Add	.....	1,292.38	
		For Class 56 Rating, Add	.....	1,712.85	
40 05 19 00-1216	EA	12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,655.28	500.10
		For Class 52 Rating, Deduct	.....	-648.73	
		For Class 54 Rating, Add	.....	893.73	
		For Class 55 Rating, Add	.....	1,333.34	
		For Class 56 Rating, Add	.....	1,767.06	
40 05 19 00-1217	EA	12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	6,843.04	503.11
		For Class 52 Rating, Deduct	.....	-668.88	
		For Class 54 Rating, Add	.....	921.26	
		For Class 55 Rating, Add	.....	1,374.30	
		For Class 56 Rating, Add	.....	1,821.27	
40 05 19 00-1218	EA	12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,030.81	506.12
		For Class 52 Rating, Deduct	.....	-689.04	
		For Class 54 Rating, Add	.....	948.80	
		For Class 55 Rating, Add	.....	1,415.27	
		For Class 56 Rating, Add	.....	1,875.47	
40 05 19 00-1219	EA	12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	7,218.57	509.14
		For Class 52 Rating, Deduct	.....	-709.19	
		For Class 54 Rating, Add	.....	976.33	
		For Class 55 Rating, Add	.....	1,456.23	
		For Class 56 Rating, Add	.....	1,929.68	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1220	EA	12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,406.34	512.14
		For Class 52 Rating, Deduct	-729.34	
		For Class 54 Rating, Add	1,003.87	
		For Class 55 Rating, Add	1,497.19	
		For Class 56 Rating, Add	1,983.89	
40 05 19 00-1221	EA	12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,594.10	515.16
		For Class 52 Rating, Deduct	-749.49	
		For Class 54 Rating, Add	1,031.40	
		For Class 55 Rating, Add	1,538.16	
		For Class 56 Rating, Add	2,038.10	
40 05 19 00-1222	EA	12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,781.87	518.18
		For Class 52 Rating, Deduct	-769.64	
		For Class 54 Rating, Add	1,058.94	
		For Class 55 Rating, Add	1,579.12	
		For Class 56 Rating, Add	2,092.31	
40 05 19 00-1223	EA	12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,969.64	521.19
		For Class 52 Rating, Deduct	-789.80	
		For Class 54 Rating, Add	1,086.47	
		For Class 55 Rating, Add	1,620.09	
		For Class 56 Rating, Add	2,146.52	
40 05 19 00-1224	EA	12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,157.41	524.19
		For Class 52 Rating, Deduct	-809.95	
		For Class 54 Rating, Add	1,114.01	
		For Class 55 Rating, Add	1,661.05	
		For Class 56 Rating, Add	2,200.73	
40 05 19 00-1225	EA	12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,345.17	527.21
		For Class 52 Rating, Deduct	-830.10	
		For Class 54 Rating, Add	1,141.54	
		For Class 55 Rating, Add	1,702.01	
		For Class 56 Rating, Add	2,254.94	
40 05 19 00-1226	EA	12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,532.94	530.23
		For Class 52 Rating, Deduct	-850.25	
		For Class 54 Rating, Add	1,169.08	
		For Class 55 Rating, Add	1,742.97	
		For Class 56 Rating, Add	2,309.14	
40 05 19 00-1227	EA	12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,720.70	533.23
		For Class 52 Rating, Deduct	-870.40	
		For Class 54 Rating, Add	1,196.61	
		For Class 55 Rating, Add	1,783.94	
		For Class 56 Rating, Add	2,363.35	
40 05 19 00-1228	EA	12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,908.47	536.25
		For Class 52 Rating, Deduct	-890.56	
		For Class 54 Rating, Add	1,224.15	
		For Class 55 Rating, Add	1,824.90	
		For Class 56 Rating, Add	2,417.56	
40 05 19 00-1229		14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1230	EA	14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,385.54	506.12
		For Class 52 Rating, Deduct	-178.06	
		For Class 54 Rating, Add	252.01	
		For Class 55 Rating, Add	379.37	
		For Class 56 Rating, Add	505.12	
40 05 19 00-1231	EA	14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,613.46	509.14
		For Class 52 Rating, Deduct	-202.63	
		For Class 54 Rating, Add	285.56	
		For Class 55 Rating, Add	429.29	
		For Class 56 Rating, Add	571.18	
40 05 19 00-1232	EA	14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,841.38	512.14
		For Class 52 Rating, Deduct	-227.19	
		For Class 54 Rating, Add	319.12	
		For Class 55 Rating, Add	479.21	
		For Class 56 Rating, Add	637.23	
40 05 19 00-1233	EA	14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,069.30	515.16
		For Class 52 Rating, Deduct	-251.76	
		For Class 54 Rating, Add	352.68	
		For Class 55 Rating, Add	529.13	
		For Class 56 Rating, Add	703.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1234	EA	14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,297.22		518.18
		For Class 52 Rating, Deduct		-276.33		
		For Class 54 Rating, Add		386.24		
		For Class 55 Rating, Add		579.04		
		For Class 56 Rating, Add		769.34		
40 05 19 00-1235	EA	14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,525.13		521.19
		For Class 52 Rating, Deduct		-300.90		
		For Class 54 Rating, Add		419.80		
		For Class 55 Rating, Add		628.96		
		For Class 56 Rating, Add		835.39		
40 05 19 00-1236	EA	14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,753.06		524.19
		For Class 52 Rating, Deduct		-325.47		
		For Class 54 Rating, Add		453.35		
		For Class 55 Rating, Add		678.88		
		For Class 56 Rating, Add		901.44		
40 05 19 00-1237	EA	14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,980.97		527.21
		For Class 52 Rating, Deduct		-350.04		
		For Class 54 Rating, Add		486.91		
		For Class 55 Rating, Add		728.80		
		For Class 56 Rating, Add		967.50		
40 05 19 00-1238	EA	14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,208.90		530.23
		For Class 52 Rating, Deduct		-374.61		
		For Class 54 Rating, Add		520.47		
		For Class 55 Rating, Add		778.71		
		For Class 56 Rating, Add		1,033.55		
40 05 19 00-1239	EA	14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,436.81		533.23
		For Class 52 Rating, Deduct		-399.18		
		For Class 54 Rating, Add		554.03		
		For Class 55 Rating, Add		828.63		
		For Class 56 Rating, Add		1,099.61		
40 05 19 00-1240	EA	14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,664.74		536.25
		For Class 52 Rating, Deduct		-423.75		
		For Class 54 Rating, Add		587.59		
		For Class 55 Rating, Add		878.55		
		For Class 56 Rating, Add		1,165.66		
40 05 19 00-1241	EA	14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,892.65		539.26
		For Class 52 Rating, Deduct		-448.31		
		For Class 54 Rating, Add		621.14		
		For Class 55 Rating, Add		928.47		
		For Class 56 Rating, Add		1,231.71		
40 05 19 00-1242	EA	14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,120.57		542.28
		For Class 52 Rating, Deduct		-472.88		
		For Class 54 Rating, Add		654.70		
		For Class 55 Rating, Add		978.38		
		For Class 56 Rating, Add		1,297.77		
40 05 19 00-1243	EA	14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,348.49		545.28
		For Class 52 Rating, Deduct		-497.45		
		For Class 54 Rating, Add		688.26		
		For Class 55 Rating, Add		1,028.30		
		For Class 56 Rating, Add		1,363.82		
40 05 19 00-1244	EA	14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,576.41		548.30
		For Class 52 Rating, Deduct		-522.02		
		For Class 54 Rating, Add		721.82		
		For Class 55 Rating, Add		1,078.22		
		For Class 56 Rating, Add		1,429.87		
40 05 19 00-1245	EA	14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		5,804.33		551.32
		For Class 52 Rating, Deduct		-546.59		
		For Class 54 Rating, Add		755.38		
		For Class 55 Rating, Add		1,128.14		
		For Class 56 Rating, Add		1,495.93		
40 05 19 00-1246	EA	14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,032.25		554.32
		For Class 52 Rating, Deduct		-571.16		
		For Class 54 Rating, Add		788.93		
		For Class 55 Rating, Add		1,178.05		
		For Class 56 Rating, Add		1,561.98		
40 05 19 00-1247	EA	14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,260.17		557.33
		For Class 52 Rating, Deduct		-595.73		
		For Class 54 Rating, Add		822.49		
		For Class 55 Rating, Add		1,227.97		
		For Class 56 Rating, Add		1,628.04		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1248	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,488.09	560.35
			For Class 52 Rating, Deduct	-620.30	
			For Class 54 Rating, Add	856.05	
			For Class 55 Rating, Add	1,277.89	
			For Class 56 Rating, Add	1,694.09	
40 05 19 00-1249	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,716.01	563.37
			For Class 52 Rating, Deduct	-644.87	
			For Class 54 Rating, Add	889.61	
			For Class 55 Rating, Add	1,327.81	
			For Class 56 Rating, Add	1,760.15	
40 05 19 00-1250	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,943.93	566.38
			For Class 52 Rating, Deduct	-669.44	
			For Class 54 Rating, Add	923.16	
			For Class 55 Rating, Add	1,377.72	
			For Class 56 Rating, Add	1,826.20	
40 05 19 00-1251	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,171.84	569.39
			For Class 52 Rating, Deduct	-694.00	
			For Class 54 Rating, Add	956.72	
			For Class 55 Rating, Add	1,427.64	
			For Class 56 Rating, Add	1,892.25	
40 05 19 00-1252	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,399.76	572.40
			For Class 52 Rating, Deduct	-718.57	
			For Class 54 Rating, Add	990.28	
			For Class 55 Rating, Add	1,477.56	
			For Class 56 Rating, Add	1,958.31	
40 05 19 00-1253	EA		14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,627.67	575.42
			For Class 52 Rating, Deduct	-743.14	
			For Class 54 Rating, Add	1,023.84	
			For Class 55 Rating, Add	1,527.48	
			For Class 56 Rating, Add	2,024.36	
40 05 19 00-1254	EA		14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,855.60	578.42
			For Class 52 Rating, Deduct	-767.71	
			For Class 54 Rating, Add	1,057.40	
			For Class 55 Rating, Add	1,577.40	
			For Class 56 Rating, Add	2,090.41	
40 05 19 00-1255	EA		14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,083.51	581.44
			For Class 52 Rating, Deduct	-792.28	
			For Class 54 Rating, Add	1,090.95	
			For Class 55 Rating, Add	1,627.31	
			For Class 56 Rating, Add	2,156.47	
40 05 19 00-1256	EA		14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,311.44	584.46
			For Class 52 Rating, Deduct	-816.85	
			For Class 54 Rating, Add	1,124.51	
			For Class 55 Rating, Add	1,677.23	
			For Class 56 Rating, Add	2,222.52	
40 05 19 00-1257	EA		14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,539.35	587.46
			For Class 52 Rating, Deduct	-841.42	
			For Class 54 Rating, Add	1,158.07	
			For Class 55 Rating, Add	1,727.15	
			For Class 56 Rating, Add	2,288.57	
40 05 19 00-1258	EA		14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,767.28	590.47
			For Class 52 Rating, Deduct	-865.99	
			For Class 54 Rating, Add	1,191.63	
			For Class 55 Rating, Add	1,777.07	
			For Class 56 Rating, Add	2,354.63	
40 05 19 00-1259	EA		14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,995.19	593.49
			For Class 52 Rating, Deduct	-890.56	
			For Class 54 Rating, Add	1,225.19	
			For Class 55 Rating, Add	1,826.98	
			For Class 56 Rating, Add	2,420.68	
40 05 19 00-1260	EA		14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,223.11	596.51
			For Class 52 Rating, Deduct	-915.13	
			For Class 54 Rating, Add	1,258.74	
			For Class 55 Rating, Add	1,876.90	
			For Class 56 Rating, Add	2,486.74	
40 05 19 00-1261	EA		14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,451.03	599.52
			For Class 52 Rating, Deduct	-939.69	
			For Class 54 Rating, Add	1,292.30	
			For Class 55 Rating, Add	1,926.82	
			For Class 56 Rating, Add	2,552.79	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,678.95	602.53
		For Class 52 Rating, Deduct		-964.26	
		For Class 54 Rating, Add		1,325.86	
		For Class 55 Rating, Add		1,976.73	
		For Class 56 Rating, Add		2,618.84	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,906.87	605.54
		For Class 52 Rating, Deduct		-988.83	
		For Class 54 Rating, Add		1,359.42	
		For Class 55 Rating, Add		2,026.65	
		For Class 56 Rating, Add		2,684.90	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,134.79	608.55
		For Class 52 Rating, Deduct		-1,013.40	
		For Class 54 Rating, Add		1,392.98	
		For Class 55 Rating, Add		2,076.57	
		For Class 56 Rating, Add		2,750.95	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,362.71	611.56
		For Class 52 Rating, Deduct		-1,037.97	
		For Class 54 Rating, Add		1,426.53	
		For Class 55 Rating, Add		2,126.49	
		For Class 56 Rating, Add		2,817.01	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,590.63	614.58
		For Class 52 Rating, Deduct		-1,062.54	
		For Class 54 Rating, Add		1,460.09	
		For Class 55 Rating, Add		2,176.41	
		For Class 56 Rating, Add		2,883.06	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,818.54	617.60
		For Class 52 Rating, Deduct		-1,087.11	
		For Class 54 Rating, Add		1,493.65	
		For Class 55 Rating, Add		2,226.32	
		For Class 56 Rating, Add		2,949.11	
40 05 19 00-1268 16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		2,791.22	578.42
		For Class 52 Rating, Deduct		-210.63	
		For Class 54 Rating, Add		297.74	
		For Class 55 Rating, Add		448.04	
		For Class 56 Rating, Add		596.42	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,056.78	581.44
		For Class 52 Rating, Deduct		-239.34	
		For Class 54 Rating, Add		336.94	
		For Class 55 Rating, Add		506.35	
		For Class 56 Rating, Add		673.58	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,322.35	584.46
		For Class 52 Rating, Deduct		-268.05	
		For Class 54 Rating, Add		376.15	
		For Class 55 Rating, Add		564.66	
		For Class 56 Rating, Add		750.74	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,587.91	587.46
		For Class 52 Rating, Deduct		-296.76	
		For Class 54 Rating, Add		415.35	
		For Class 55 Rating, Add		622.98	
		For Class 56 Rating, Add		827.90	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		3,853.48	590.47
		For Class 52 Rating, Deduct		-325.47	
		For Class 54 Rating, Add		454.56	
		For Class 55 Rating, Add		681.29	
		For Class 56 Rating, Add		905.06	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,119.04	593.49
		For Class 52 Rating, Deduct		-354.18	
		For Class 54 Rating, Add		493.76	
		For Class 55 Rating, Add		739.60	
		For Class 56 Rating, Add		982.22	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		4,384.61	596.51
		For Class 52 Rating, Deduct		-382.89	
		For Class 54 Rating, Add		532.97	
		For Class 55 Rating, Add		797.91	
		For Class 56 Rating, Add		1,059.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276	EA		16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,650.16	599.52
			For Class 52 Rating, Deduct	-411.60	
			For Class 54 Rating, Add	572.17	
			For Class 55 Rating, Add	856.22	
			For Class 56 Rating, Add	1,136.53	
40 05 19 00-1277	EA		16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,915.73	602.53
			For Class 52 Rating, Deduct	-440.31	
			For Class 54 Rating, Add	611.38	
			For Class 55 Rating, Add	914.54	
			For Class 56 Rating, Add	1,213.69	
40 05 19 00-1278	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,181.29	605.54
			For Class 52 Rating, Deduct	-469.02	
			For Class 54 Rating, Add	650.58	
			For Class 55 Rating, Add	972.85	
			For Class 56 Rating, Add	1,290.85	
40 05 19 00-1279	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,446.86	608.55
			For Class 52 Rating, Deduct	-497.73	
			For Class 54 Rating, Add	689.79	
			For Class 55 Rating, Add	1,031.16	
			For Class 56 Rating, Add	1,368.01	
40 05 19 00-1280	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,712.42	611.56
			For Class 52 Rating, Deduct	-526.44	
			For Class 54 Rating, Add	728.99	
			For Class 55 Rating, Add	1,089.47	
			For Class 56 Rating, Add	1,445.17	
40 05 19 00-1281	EA		16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,977.99	614.58
			For Class 52 Rating, Deduct	-555.15	
			For Class 54 Rating, Add	768.20	
			For Class 55 Rating, Add	1,147.79	
			For Class 56 Rating, Add	1,522.33	
40 05 19 00-1282	EA		16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,243.54	617.60
			For Class 52 Rating, Deduct	-583.86	
			For Class 54 Rating, Add	807.40	
			For Class 55 Rating, Add	1,206.10	
			For Class 56 Rating, Add	1,599.49	
40 05 19 00-1283	EA		16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,509.11	620.60
			For Class 52 Rating, Deduct	-612.57	
			For Class 54 Rating, Add	846.60	
			For Class 55 Rating, Add	1,264.41	
			For Class 56 Rating, Add	1,676.65	
40 05 19 00-1284	EA		16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,774.67	623.62
			For Class 52 Rating, Deduct	-641.28	
			For Class 54 Rating, Add	885.81	
			For Class 55 Rating, Add	1,322.72	
			For Class 56 Rating, Add	1,753.81	
40 05 19 00-1285	EA		16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,040.24	626.63
			For Class 52 Rating, Deduct	-669.99	
			For Class 54 Rating, Add	925.01	
			For Class 55 Rating, Add	1,381.03	
			For Class 56 Rating, Add	1,830.97	
40 05 19 00-1286	EA		16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,305.80	629.63
			For Class 52 Rating, Deduct	-698.70	
			For Class 54 Rating, Add	964.22	
			For Class 55 Rating, Add	1,439.35	
			For Class 56 Rating, Add	1,908.13	
40 05 19 00-1287	EA		16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,571.37	632.65
			For Class 52 Rating, Deduct	-727.41	
			For Class 54 Rating, Add	1,003.42	
			For Class 55 Rating, Add	1,497.66	
			For Class 56 Rating, Add	1,985.28	
40 05 19 00-1288	EA		16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,836.92	635.67
			For Class 52 Rating, Deduct	-756.12	
			For Class 54 Rating, Add	1,042.63	
			For Class 55 Rating, Add	1,555.97	
			For Class 56 Rating, Add	2,062.44	
40 05 19 00-1289	EA		16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,102.49	638.68
			For Class 52 Rating, Deduct	-784.83	
			For Class 54 Rating, Add	1,081.83	
			For Class 55 Rating, Add	1,614.28	
			For Class 56 Rating, Add	2,139.60	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1290	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,368.05		641.69
		For Class 52 Rating, Deduct		-813.54		
		For Class 54 Rating, Add		1,121.04		
		For Class 55 Rating, Add		1,672.60		
		For Class 56 Rating, Add		2,216.76		
40 05 19 00-1291	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,633.62		644.70
		For Class 52 Rating, Deduct		-842.25		
		For Class 54 Rating, Add		1,160.24		
		For Class 55 Rating, Add		1,730.91		
		For Class 56 Rating, Add		2,293.92		
40 05 19 00-1292	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,899.18		647.72
		For Class 52 Rating, Deduct		-870.96		
		For Class 54 Rating, Add		1,199.45		
		For Class 55 Rating, Add		1,789.22		
		For Class 56 Rating, Add		2,371.08		
40 05 19 00-1293	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,164.74		650.74
		For Class 52 Rating, Deduct		-899.67		
		For Class 54 Rating, Add		1,238.65		
		For Class 55 Rating, Add		1,847.53		
		For Class 56 Rating, Add		2,448.24		
40 05 19 00-1294	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,430.29		653.74
		For Class 52 Rating, Deduct		-928.38		
		For Class 54 Rating, Add		1,277.85		
		For Class 55 Rating, Add		1,905.84		
		For Class 56 Rating, Add		2,525.39		
40 05 19 00-1295	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,695.86		656.76
		For Class 52 Rating, Deduct		-957.09		
		For Class 54 Rating, Add		1,317.06		
		For Class 55 Rating, Add		1,964.16		
		For Class 56 Rating, Add		2,602.55		
40 05 19 00-1296	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,961.42		659.77
		For Class 52 Rating, Deduct		-985.80		
		For Class 54 Rating, Add		1,356.26		
		For Class 55 Rating, Add		2,022.47		
		For Class 56 Rating, Add		2,679.71		
40 05 19 00-1297	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,226.99		662.77
		For Class 52 Rating, Deduct		-1,014.51		
		For Class 54 Rating, Add		1,395.47		
		For Class 55 Rating, Add		2,080.78		
		For Class 56 Rating, Add		2,756.87		
40 05 19 00-1298	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,492.55		665.79
		For Class 52 Rating, Deduct		-1,043.22		
		For Class 54 Rating, Add		1,434.67		
		For Class 55 Rating, Add		2,139.09		
		For Class 56 Rating, Add		2,834.03		
40 05 19 00-1299	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,758.12		668.81
		For Class 52 Rating, Deduct		-1,071.93		
		For Class 54 Rating, Add		1,473.88		
		For Class 55 Rating, Add		2,197.41		
		For Class 56 Rating, Add		2,911.19		
40 05 19 00-1300	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,023.68		671.83
		For Class 52 Rating, Deduct		-1,100.64		
		For Class 54 Rating, Add		1,513.08		
		For Class 55 Rating, Add		2,255.72		
		For Class 56 Rating, Add		2,988.35		
40 05 19 00-1301	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,289.24		674.83
		For Class 52 Rating, Deduct		-1,129.34		
		For Class 54 Rating, Add		1,552.29		
		For Class 55 Rating, Add		2,314.03		
		For Class 56 Rating, Add		3,065.51		
40 05 19 00-1302	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,554.80		677.84
		For Class 52 Rating, Deduct		-1,158.05		
		For Class 54 Rating, Add		1,591.49		
		For Class 55 Rating, Add		2,372.34		
		For Class 56 Rating, Add		3,142.67		
40 05 19 00-1303	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,820.37		680.86
		For Class 52 Rating, Deduct		-1,186.76		
		For Class 54 Rating, Add		1,630.69		
		For Class 55 Rating, Add		2,430.65		
		For Class 56 Rating, Add		3,219.82		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1304	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,085.93	683.86
		For Class 52 Rating, Deduct	-1,215.47	
		For Class 54 Rating, Add	1,669.90	
		For Class 55 Rating, Add	2,488.97	
		For Class 56 Rating, Add	3,296.98	
40 05 19 00-1305	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,351.50	686.88
		For Class 52 Rating, Deduct	-1,244.18	
		For Class 54 Rating, Add	1,709.10	
		For Class 55 Rating, Add	2,547.28	
		For Class 56 Rating, Add	3,374.14	
40 05 19 00-1306	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,617.06	689.90
		For Class 52 Rating, Deduct	-1,272.89	
		For Class 54 Rating, Add	1,748.31	
		For Class 55 Rating, Add	2,605.59	
		For Class 56 Rating, Add	3,451.30	
40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)				
40 05 19 00-1308	EA	18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,233.87	651.94
		For Class 52 Rating, Deduct	-247.07	
		For Class 54 Rating, Add	348.77	
		For Class 55 Rating, Add	524.58	
		For Class 56 Rating, Add	698.16	
40 05 19 00-1309	EA	18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,539.58	654.95
		For Class 52 Rating, Deduct	-280.20	
		For Class 54 Rating, Add	393.99	
		For Class 55 Rating, Add	591.85	
		For Class 56 Rating, Add	787.16	
40 05 19 00-1310	EA	18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,845.31	657.95
		For Class 52 Rating, Deduct	-313.32	
		For Class 54 Rating, Add	439.22	
		For Class 55 Rating, Add	659.12	
		For Class 56 Rating, Add	876.17	
40 05 19 00-1311	EA	18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,151.02	660.98
		For Class 52 Rating, Deduct	-346.45	
		For Class 54 Rating, Add	484.45	
		For Class 55 Rating, Add	726.38	
		For Class 56 Rating, Add	965.17	
40 05 19 00-1312	EA	18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,456.74	663.99
		For Class 52 Rating, Deduct	-379.58	
		For Class 54 Rating, Add	529.68	
		For Class 55 Rating, Add	793.65	
		For Class 56 Rating, Add	1,054.17	
40 05 19 00-1313	EA	18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,762.45	666.99
		For Class 52 Rating, Deduct	-412.70	
		For Class 54 Rating, Add	574.90	
		For Class 55 Rating, Add	860.92	
		For Class 56 Rating, Add	1,143.18	
40 05 19 00-1314	EA	18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,068.17	670.01
		For Class 52 Rating, Deduct	-445.83	
		For Class 54 Rating, Add	620.13	
		For Class 55 Rating, Add	928.18	
		For Class 56 Rating, Add	1,232.18	
40 05 19 00-1315	EA	18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,373.89	673.02
		For Class 52 Rating, Deduct	-478.96	
		For Class 54 Rating, Add	665.36	
		For Class 55 Rating, Add	995.45	
		For Class 56 Rating, Add	1,321.19	
40 05 19 00-1316	EA	18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,679.61	676.05
		For Class 52 Rating, Deduct	-512.08	
		For Class 54 Rating, Add	710.59	
		For Class 55 Rating, Add	1,062.72	
		For Class 56 Rating, Add	1,410.19	
40 05 19 00-1317	EA	18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,985.32	679.05
		For Class 52 Rating, Deduct	-545.21	
		For Class 54 Rating, Add	755.82	
		For Class 55 Rating, Add	1,129.98	
		For Class 56 Rating, Add	1,499.19	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1318	EA	18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,291.04	682.06
		For Class 52 Rating, Deduct		-578.34	
		For Class 54 Rating, Add		801.04	
		For Class 55 Rating, Add		1,197.25	
		For Class 56 Rating, Add		1,588.20	
40 05 19 00-1319	EA	18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,596.75	685.08
		For Class 52 Rating, Deduct		-611.46	
		For Class 54 Rating, Add		846.27	
		For Class 55 Rating, Add		1,264.52	
		For Class 56 Rating, Add		1,677.20	
40 05 19 00-1320	EA	18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		6,902.48	688.08
		For Class 52 Rating, Deduct		-644.59	
		For Class 54 Rating, Add		891.50	
		For Class 55 Rating, Add		1,331.78	
		For Class 56 Rating, Add		1,766.21	
40 05 19 00-1321	EA	18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,208.19	691.09
		For Class 52 Rating, Deduct		-677.72	
		For Class 54 Rating, Add		936.73	
		For Class 55 Rating, Add		1,399.05	
		For Class 56 Rating, Add		1,855.21	
40 05 19 00-1322	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,513.91	694.11
		For Class 52 Rating, Deduct		-710.84	
		For Class 54 Rating, Add		981.95	
		For Class 55 Rating, Add		1,466.32	
		For Class 56 Rating, Add		1,944.22	
40 05 19 00-1323	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		7,819.62	697.13
		For Class 52 Rating, Deduct		-743.97	
		For Class 54 Rating, Add		1,027.18	
		For Class 55 Rating, Add		1,533.58	
		For Class 56 Rating, Add		2,033.22	
40 05 19 00-1324	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,125.34	700.14
		For Class 52 Rating, Deduct		-777.10	
		For Class 54 Rating, Add		1,072.41	
		For Class 55 Rating, Add		1,600.85	
		For Class 56 Rating, Add		2,122.22	
40 05 19 00-1325	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,431.06	703.15
		For Class 52 Rating, Deduct		-810.22	
		For Class 54 Rating, Add		1,117.64	
		For Class 55 Rating, Add		1,668.12	
		For Class 56 Rating, Add		2,211.23	
40 05 19 00-1326	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		8,736.78	706.16
		For Class 52 Rating, Deduct		-843.35	
		For Class 54 Rating, Add		1,162.86	
		For Class 55 Rating, Add		1,735.38	
		For Class 56 Rating, Add		2,300.23	
40 05 19 00-1327	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,042.49	709.17
		For Class 52 Rating, Deduct		-876.48	
		For Class 54 Rating, Add		1,208.09	
		For Class 55 Rating, Add		1,802.65	
		For Class 56 Rating, Add		2,389.24	
40 05 19 00-1328	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,348.21	712.18
		For Class 52 Rating, Deduct		-909.60	
		For Class 54 Rating, Add		1,253.32	
		For Class 55 Rating, Add		1,869.91	
		For Class 56 Rating, Add		2,478.24	
40 05 19 00-1329	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,653.92	715.20
		For Class 52 Rating, Deduct		-942.73	
		For Class 54 Rating, Add		1,298.55	
		For Class 55 Rating, Add		1,937.18	
		For Class 56 Rating, Add		2,567.24	
40 05 19 00-1330	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		9,959.65	718.22
		For Class 52 Rating, Deduct		-975.86	
		For Class 54 Rating, Add		1,343.77	
		For Class 55 Rating, Add		2,004.45	
		For Class 56 Rating, Add		2,656.25	
40 05 19 00-1331	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,265.36	721.22
		For Class 52 Rating, Deduct		-1,008.98	
		For Class 54 Rating, Add		1,389.00	
		For Class 55 Rating, Add		2,071.71	
		For Class 56 Rating, Add		2,745.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332	EA		18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,571.08	724.24
			For Class 52 Rating, Deduct	-1,042.11	
			For Class 54 Rating, Add	1,434.23	
			For Class 55 Rating, Add	2,138.98	
			For Class 56 Rating, Add	2,834.26	
40 05 19 00-1333	EA		18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,876.79	727.25
			For Class 52 Rating, Deduct	-1,075.24	
			For Class 54 Rating, Add	1,479.46	
			For Class 55 Rating, Add	2,206.25	
			For Class 56 Rating, Add	2,923.26	
40 05 19 00-1334	EA		18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,182.50	730.27
			For Class 52 Rating, Deduct	-1,108.36	
			For Class 54 Rating, Add	1,524.68	
			For Class 55 Rating, Add	2,273.51	
			For Class 56 Rating, Add	3,012.26	
40 05 19 00-1335	EA		18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,488.22	733.28
			For Class 52 Rating, Deduct	-1,141.49	
			For Class 54 Rating, Add	1,569.91	
			For Class 55 Rating, Add	2,340.78	
			For Class 56 Rating, Add	3,101.27	
40 05 19 00-1336	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,793.94	736.29
			For Class 52 Rating, Deduct	-1,174.62	
			For Class 54 Rating, Add	1,615.14	
			For Class 55 Rating, Add	2,408.05	
			For Class 56 Rating, Add	3,190.27	
40 05 19 00-1337	EA		18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,099.65	739.30
			For Class 52 Rating, Deduct	-1,207.75	
			For Class 54 Rating, Add	1,660.37	
			For Class 55 Rating, Add	2,475.31	
			For Class 56 Rating, Add	3,279.28	
40 05 19 00-1338	EA		18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,405.37	742.31
			For Class 52 Rating, Deduct	-1,240.87	
			For Class 54 Rating, Add	1,705.59	
			For Class 55 Rating, Add	2,542.58	
			For Class 56 Rating, Add	3,368.28	
40 05 19 00-1339	EA		18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,711.08	745.32
			For Class 52 Rating, Deduct	-1,274.00	
			For Class 54 Rating, Add	1,750.82	
			For Class 55 Rating, Add	2,609.84	
			For Class 56 Rating, Add	3,457.29	
40 05 19 00-1340	EA		18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,016.81	748.35
			For Class 52 Rating, Deduct	-1,307.13	
			For Class 54 Rating, Add	1,796.05	
			For Class 55 Rating, Add	2,677.11	
			For Class 56 Rating, Add	3,546.29	
40 05 19 00-1341	EA		18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,322.52	751.36
			For Class 52 Rating, Deduct	-1,340.25	
			For Class 54 Rating, Add	1,841.28	
			For Class 55 Rating, Add	2,744.38	
			For Class 56 Rating, Add	3,635.30	
40 05 19 00-1342	EA		18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,628.24	754.36
			For Class 52 Rating, Deduct	-1,373.38	
			For Class 54 Rating, Add	1,886.50	
			For Class 55 Rating, Add	2,811.64	
			For Class 56 Rating, Add	3,724.30	
40 05 19 00-1343	EA		18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,933.95	757.38
			For Class 52 Rating, Deduct	-1,406.51	
			For Class 54 Rating, Add	1,931.73	
			For Class 55 Rating, Add	2,878.91	
			For Class 56 Rating, Add	3,813.30	
40 05 19 00-1344	EA		18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,239.67	760.39
			For Class 52 Rating, Deduct	-1,439.63	
			For Class 54 Rating, Add	1,976.96	
			For Class 55 Rating, Add	2,946.18	
			For Class 56 Rating, Add	3,902.31	
40 05 19 00-1345	EA		18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,545.39	763.39
			For Class 52 Rating, Deduct	-1,472.76	
			For Class 54 Rating, Add	2,022.19	
			For Class 55 Rating, Add	3,013.44	
			For Class 56 Rating, Add	3,991.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

40 05 19 00-1346	20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		
40 05 19 00-1347	EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,772.57	744.12
	For Class 52 Rating, Deduct	-290.96	
	For Class 54 Rating, Add	410.30	
	For Class 55 Rating, Add	616.92	
	For Class 56 Rating, Add	820.90	
40 05 19 00-1348	EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,123.46	747.14
	For Class 52 Rating, Deduct	-329.06	
	For Class 54 Rating, Add	462.30	
	For Class 55 Rating, Add	694.26	
	For Class 56 Rating, Add	923.23	
40 05 19 00-1349	EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,474.35	750.14
	For Class 52 Rating, Deduct	-367.15	
	For Class 54 Rating, Add	514.30	
	For Class 55 Rating, Add	771.60	
	For Class 56 Rating, Add	1,025.56	
40 05 19 00-1350	EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,825.24	753.15
	For Class 52 Rating, Deduct	-405.25	
	For Class 54 Rating, Add	566.31	
	For Class 55 Rating, Add	848.94	
	For Class 56 Rating, Add	1,127.89	
40 05 19 00-1351	EA 20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,176.13	756.18
	For Class 52 Rating, Deduct	-443.35	
	For Class 54 Rating, Add	618.31	
	For Class 55 Rating, Add	926.28	
	For Class 56 Rating, Add	1,230.22	
40 05 19 00-1352	EA 20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,527.02	759.18
	For Class 52 Rating, Deduct	-481.44	
	For Class 54 Rating, Add	670.31	
	For Class 55 Rating, Add	1,003.62	
	For Class 56 Rating, Add	1,332.55	
40 05 19 00-1353	EA 20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,877.91	762.20
	For Class 52 Rating, Deduct	-519.54	
	For Class 54 Rating, Add	722.32	
	For Class 55 Rating, Add	1,080.96	
	For Class 56 Rating, Add	1,434.88	
40 05 19 00-1354	EA 20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,228.80	765.21
	For Class 52 Rating, Deduct	-557.63	
	For Class 54 Rating, Add	774.32	
	For Class 55 Rating, Add	1,158.30	
	For Class 56 Rating, Add	1,537.21	
40 05 19 00-1355	EA 20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,579.69	768.22
	For Class 52 Rating, Deduct	-595.73	
	For Class 54 Rating, Add	826.33	
	For Class 55 Rating, Add	1,235.64	
	For Class 56 Rating, Add	1,639.54	
40 05 19 00-1356	EA 20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,930.58	771.23
	For Class 52 Rating, Deduct	-633.82	
	For Class 54 Rating, Add	878.33	
	For Class 55 Rating, Add	1,312.98	
	For Class 56 Rating, Add	1,741.87	
40 05 19 00-1357	EA 20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,281.47	774.25
	For Class 52 Rating, Deduct	-671.92	
	For Class 54 Rating, Add	930.33	
	For Class 55 Rating, Add	1,390.32	
	For Class 56 Rating, Add	1,844.20	
40 05 19 00-1358	EA 20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,632.36	777.26
	For Class 52 Rating, Deduct	-710.02	
	For Class 54 Rating, Add	982.34	
	For Class 55 Rating, Add	1,467.66	
	For Class 56 Rating, Add	1,946.53	
40 05 19 00-1359	EA 20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,983.25	780.27
	For Class 52 Rating, Deduct	-748.11	
	For Class 54 Rating, Add	1,034.34	
	For Class 55 Rating, Add	1,545.00	
	For Class 56 Rating, Add	2,048.86	
40 05 19 00-1360	EA 20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,334.14	783.28
	For Class 52 Rating, Deduct	-786.21	
	For Class 54 Rating, Add	1,086.34	
	For Class 55 Rating, Add	1,622.34	
	For Class 56 Rating, Add	2,151.19	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1361	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,685.03	786.30
		For Class 52 Rating, Deduct	-824.30	
		For Class 54 Rating, Add	1,138.35	
		For Class 55 Rating, Add	1,699.68	
		For Class 56 Rating, Add	2,253.52	
40 05 19 00-1362	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,035.92	789.32
		For Class 52 Rating, Deduct	-862.40	
		For Class 54 Rating, Add	1,190.35	
		For Class 55 Rating, Add	1,777.02	
		For Class 56 Rating, Add	2,355.85	
40 05 19 00-1363	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,386.81	792.32
		For Class 52 Rating, Deduct	-900.50	
		For Class 54 Rating, Add	1,242.35	
		For Class 55 Rating, Add	1,854.36	
		For Class 56 Rating, Add	2,458.18	
40 05 19 00-1364	EA	20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,737.70	795.34
		For Class 52 Rating, Deduct	-938.59	
		For Class 54 Rating, Add	1,294.36	
		For Class 55 Rating, Add	1,931.70	
		For Class 56 Rating, Add	2,560.51	
40 05 19 00-1365	EA	20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,088.58	798.35
		For Class 52 Rating, Deduct	-976.69	
		For Class 54 Rating, Add	1,346.36	
		For Class 55 Rating, Add	2,009.04	
		For Class 56 Rating, Add	2,662.84	
40 05 19 00-1366	EA	20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,439.47	801.36
		For Class 52 Rating, Deduct	-1,014.78	
		For Class 54 Rating, Add	1,398.36	
		For Class 55 Rating, Add	2,086.38	
		For Class 56 Rating, Add	2,765.17	
40 05 19 00-1367	EA	20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,790.35	804.37
		For Class 52 Rating, Deduct	-1,052.88	
		For Class 54 Rating, Add	1,450.37	
		For Class 55 Rating, Add	2,163.72	
		For Class 56 Rating, Add	2,867.50	
40 05 19 00-1368	EA	20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,141.25	807.39
		For Class 52 Rating, Deduct	-1,090.97	
		For Class 54 Rating, Add	1,502.37	
		For Class 55 Rating, Add	2,241.06	
		For Class 56 Rating, Add	2,969.83	
40 05 19 00-1369	EA	20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,492.13	810.41
		For Class 52 Rating, Deduct	-1,129.07	
		For Class 54 Rating, Add	1,554.37	
		For Class 55 Rating, Add	2,318.40	
		For Class 56 Rating, Add	3,072.16	
40 05 19 00-1370	EA	20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,843.03	813.41
		For Class 52 Rating, Deduct	-1,167.16	
		For Class 54 Rating, Add	1,606.38	
		For Class 55 Rating, Add	2,395.74	
		For Class 56 Rating, Add	3,174.49	
40 05 19 00-1371	EA	20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,193.91	816.42
		For Class 52 Rating, Deduct	-1,205.26	
		For Class 54 Rating, Add	1,658.38	
		For Class 55 Rating, Add	2,473.08	
		For Class 56 Rating, Add	3,276.82	
40 05 19 00-1372	EA	20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,544.81	819.44
		For Class 52 Rating, Deduct	-1,243.36	
		For Class 54 Rating, Add	1,710.38	
		For Class 55 Rating, Add	2,550.42	
		For Class 56 Rating, Add	3,379.15	
40 05 19 00-1373	EA	20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,895.69	822.46
		For Class 52 Rating, Deduct	-1,281.45	
		For Class 54 Rating, Add	1,762.39	
		For Class 55 Rating, Add	2,627.76	
		For Class 56 Rating, Add	3,481.48	
40 05 19 00-1374	EA	20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,246.59	825.46
		For Class 52 Rating, Deduct	-1,319.55	
		For Class 54 Rating, Add	1,814.39	
		For Class 55 Rating, Add	2,705.10	
		For Class 56 Rating, Add	3,583.81	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1375	EA	20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	13,597.47	828.48
		For Class 52 Rating, Deduct	.....	-1,357.64	
		For Class 54 Rating, Add	.....	1,866.39	
		For Class 55 Rating, Add	.....	2,782.44	
		For Class 56 Rating, Add	.....	3,686.14	
40 05 19 00-1376	EA	20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	13,948.37	831.49
		For Class 52 Rating, Deduct	.....	-1,395.74	
		For Class 54 Rating, Add	.....	1,918.40	
		For Class 55 Rating, Add	.....	2,859.78	
		For Class 56 Rating, Add	.....	3,788.47	
40 05 19 00-1377	EA	20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	14,299.25	834.49
		For Class 52 Rating, Deduct	.....	-1,433.83	
		For Class 54 Rating, Add	.....	1,970.40	
		For Class 55 Rating, Add	.....	2,937.12	
		For Class 56 Rating, Add	.....	3,890.80	
40 05 19 00-1378	EA	20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	14,650.15	837.51
		For Class 52 Rating, Deduct	.....	-1,471.93	
		For Class 54 Rating, Add	.....	2,022.41	
		For Class 55 Rating, Add	.....	3,014.46	
		For Class 56 Rating, Add	.....	3,993.13	
40 05 19 00-1379	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	15,001.03	840.53
		For Class 52 Rating, Deduct	.....	-1,510.03	
		For Class 54 Rating, Add	.....	2,074.41	
		For Class 55 Rating, Add	.....	3,091.80	
		For Class 56 Rating, Add	.....	4,095.46	
40 05 19 00-1380	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	15,351.93	843.55
		For Class 52 Rating, Deduct	.....	-1,548.12	
		For Class 54 Rating, Add	.....	2,126.41	
		For Class 55 Rating, Add	.....	3,169.14	
		For Class 56 Rating, Add	.....	4,197.79	
40 05 19 00-1381	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	15,702.81	846.55
		For Class 52 Rating, Deduct	.....	-1,586.22	
		For Class 54 Rating, Add	.....	2,178.42	
		For Class 55 Rating, Add	.....	3,246.48	
		For Class 56 Rating, Add	.....	4,300.12	
40 05 19 00-1382	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	16,053.71	849.56
		For Class 52 Rating, Deduct	.....	-1,624.31	
		For Class 54 Rating, Add	.....	2,230.42	
		For Class 55 Rating, Add	.....	3,323.82	
		For Class 56 Rating, Add	.....	4,402.45	
40 05 19 00-1383	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	16,404.59	852.58
		For Class 52 Rating, Deduct	.....	-1,662.41	
		For Class 54 Rating, Add	.....	2,282.42	
		For Class 55 Rating, Add	.....	3,401.16	
		For Class 56 Rating, Add	.....	4,504.78	
40 05 19 00-1384	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	16,755.49	855.58
		For Class 52 Rating, Deduct	.....	-1,700.51	
		For Class 54 Rating, Add	.....	2,334.43	
		For Class 55 Rating, Add	.....	3,478.50	
		For Class 56 Rating, Add	.....	4,607.11	
40 05 19 00-1385		24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)			
40 05 19 00-1386	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	4,635.49	879.69
		For Class 52 Rating, Deduct	.....	-363.29	
		For Class 54 Rating, Add	.....	511.39	
		For Class 55 Rating, Add	.....	768.48	
		For Class 56 Rating, Add	.....	1,022.26	
40 05 19 00-1387	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,069.20	882.70
		For Class 52 Rating, Deduct	.....	-410.50	
		For Class 54 Rating, Add	.....	575.82	
		For Class 55 Rating, Add	.....	864.29	
		For Class 56 Rating, Add	.....	1,149.02	
40 05 19 00-1388	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	.....	5,502.91	885.72
		For Class 52 Rating, Deduct	.....	-457.70	
		For Class 54 Rating, Add	.....	640.24	
		For Class 55 Rating, Add	.....	960.09	
		For Class 56 Rating, Add	.....	1,275.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389	EA		24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	5,936.61	888.72
			Pipe		
			For Class 52 Rating, Deduct	-504.91	
			For Class 54 Rating, Add	704.67	
			For Class 55 Rating, Add	1,055.90	
			For Class 56 Rating, Add	1,402.54	
40 05 19 00-1390	EA		24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,370.32	891.73
			Pipe		
			For Class 52 Rating, Deduct	-552.11	
			For Class 54 Rating, Add	769.09	
			For Class 55 Rating, Add	1,151.71	
			For Class 56 Rating, Add	1,529.30	
40 05 19 00-1391	EA		24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,804.02	894.76
			Pipe		
			For Class 52 Rating, Deduct	-599.32	
			For Class 54 Rating, Add	833.52	
			For Class 55 Rating, Add	1,247.52	
			For Class 56 Rating, Add	1,656.06	
40 05 19 00-1392	EA		24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,237.73	897.77
			Pipe		
			For Class 52 Rating, Deduct	-646.52	
			For Class 54 Rating, Add	897.95	
			For Class 55 Rating, Add	1,343.32	
			For Class 56 Rating, Add	1,782.83	
40 05 19 00-1393	EA		24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,671.43	900.78
			Pipe		
			For Class 52 Rating, Deduct	-693.73	
			For Class 54 Rating, Add	962.37	
			For Class 55 Rating, Add	1,439.13	
			For Class 56 Rating, Add	1,909.59	
40 05 19 00-1394	EA		24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,105.15	903.79
			Pipe		
			For Class 52 Rating, Deduct	-740.93	
			For Class 54 Rating, Add	1,026.80	
			For Class 55 Rating, Add	1,534.94	
			For Class 56 Rating, Add	2,036.35	
40 05 19 00-1395	EA		24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,538.85	906.80
			Pipe		
			For Class 52 Rating, Deduct	-788.14	
			For Class 54 Rating, Add	1,091.22	
			For Class 55 Rating, Add	1,630.75	
			For Class 56 Rating, Add	2,163.11	
40 05 19 00-1396	EA		24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,972.56	909.81
			Pipe		
			For Class 52 Rating, Deduct	-835.35	
			For Class 54 Rating, Add	1,155.65	
			For Class 55 Rating, Add	1,726.56	
			For Class 56 Rating, Add	2,289.87	
40 05 19 00-1397	EA		24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,406.26	912.83
			Pipe		
			For Class 52 Rating, Deduct	-882.55	
			For Class 54 Rating, Add	1,220.08	
			For Class 55 Rating, Add	1,822.37	
			For Class 56 Rating, Add	2,416.63	
40 05 19 00-1398	EA		24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,839.97	915.84
			Pipe		
			For Class 52 Rating, Deduct	-929.76	
			For Class 54 Rating, Add	1,284.50	
			For Class 55 Rating, Add	1,918.17	
			For Class 56 Rating, Add	2,543.39	
40 05 19 00-1399	EA		24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,273.67	918.86
			Pipe		
			For Class 52 Rating, Deduct	-976.96	
			For Class 54 Rating, Add	1,348.93	
			For Class 55 Rating, Add	2,013.98	
			For Class 56 Rating, Add	2,670.15	
40 05 19 00-1400	EA		24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,707.39	921.86
			Pipe		
			For Class 52 Rating, Deduct	-1,024.17	
			For Class 54 Rating, Add	1,413.35	
			For Class 55 Rating, Add	2,109.79	
			For Class 56 Rating, Add	2,796.92	
40 05 19 00-1401	EA		24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	11,141.09	924.88
			Pipe		
			For Class 52 Rating, Deduct	-1,071.37	
			For Class 54 Rating, Add	1,477.78	
			For Class 55 Rating, Add	2,205.60	
			For Class 56 Rating, Add	2,923.68	
40 05 19 00-1402	EA		24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	11,574.80	927.90
			Pipe		
			For Class 52 Rating, Deduct	-1,118.58	
			For Class 54 Rating, Add	1,542.21	
			For Class 55 Rating, Add	2,301.41	
			For Class 56 Rating, Add	3,050.44	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1403	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,008.50		930.90
		For Class 52 Rating, Deduct		-1,165.78		
		For Class 54 Rating, Add		1,606.63		
		For Class 55 Rating, Add		2,397.21		
		For Class 56 Rating, Add		3,177.20		
40 05 19 00-1404	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,442.21		933.92
		For Class 52 Rating, Deduct		-1,212.99		
		For Class 54 Rating, Add		1,671.06		
		For Class 55 Rating, Add		2,493.02		
		For Class 56 Rating, Add		3,303.96		
40 05 19 00-1405	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,875.91		936.93
		For Class 52 Rating, Deduct		-1,260.20		
		For Class 54 Rating, Add		1,735.48		
		For Class 55 Rating, Add		2,588.83		
		For Class 56 Rating, Add		3,430.72		
40 05 19 00-1406	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,309.63		939.94
		For Class 52 Rating, Deduct		-1,307.40		
		For Class 54 Rating, Add		1,799.91		
		For Class 55 Rating, Add		2,684.64		
		For Class 56 Rating, Add		3,557.48		
40 05 19 00-1407	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,743.33		942.95
		For Class 52 Rating, Deduct		-1,354.61		
		For Class 54 Rating, Add		1,864.34		
		For Class 55 Rating, Add		2,780.45		
		For Class 56 Rating, Add		3,684.24		
40 05 19 00-1408	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,177.04		945.97
		For Class 52 Rating, Deduct		-1,401.81		
		For Class 54 Rating, Add		1,928.76		
		For Class 55 Rating, Add		2,876.26		
		For Class 56 Rating, Add		3,811.00		
40 05 19 00-1409	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,610.74		948.99
		For Class 52 Rating, Deduct		-1,449.02		
		For Class 54 Rating, Add		1,993.19		
		For Class 55 Rating, Add		2,972.06		
		For Class 56 Rating, Add		3,937.77		
40 05 19 00-1410	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,044.45		952.00
		For Class 52 Rating, Deduct		-1,496.22		
		For Class 54 Rating, Add		2,057.61		
		For Class 55 Rating, Add		3,067.87		
		For Class 56 Rating, Add		4,064.53		
40 05 19 00-1411	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,478.14		955.00
		For Class 52 Rating, Deduct		-1,543.43		
		For Class 54 Rating, Add		2,122.04		
		For Class 55 Rating, Add		3,163.68		
		For Class 56 Rating, Add		4,191.29		
40 05 19 00-1412	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,911.86		958.02
		For Class 52 Rating, Deduct		-1,590.64		
		For Class 54 Rating, Add		2,186.47		
		For Class 55 Rating, Add		3,259.49		
		For Class 56 Rating, Add		4,318.05		
40 05 19 00-1413	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,345.56		961.04
		For Class 52 Rating, Deduct		-1,637.84		
		For Class 54 Rating, Add		2,250.89		
		For Class 55 Rating, Add		3,355.30		
		For Class 56 Rating, Add		4,444.81		
40 05 19 00-1414	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,779.27		964.04
		For Class 52 Rating, Deduct		-1,685.05		
		For Class 54 Rating, Add		2,315.32		
		For Class 55 Rating, Add		3,451.10		
		For Class 56 Rating, Add		4,571.57		
40 05 19 00-1415	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		17,290.58		1,018.27
		For Class 52 Rating, Deduct		-1,732.25		
		For Class 54 Rating, Add		2,380.68		
		For Class 55 Rating, Add		3,548.77		
		For Class 56 Rating, Add		4,701.13		
40 05 19 00-1416	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		17,724.28		1,021.28
		For Class 52 Rating, Deduct		-1,779.46		
		For Class 54 Rating, Add		2,445.10		
		For Class 55 Rating, Add		3,644.58		
		For Class 56 Rating, Add		4,827.89		



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1417	EA	24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,157.99	1,024.30
		For Class 52 Rating, Deduct	-1,826.66	
		For Class 54 Rating, Add	2,509.53	
		For Class 55 Rating, Add	3,740.39	
		For Class 56 Rating, Add	4,954.65	
40 05 19 00-1418	EA	24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,591.69	1,027.31
		For Class 52 Rating, Deduct	-1,873.87	
		For Class 54 Rating, Add	2,573.95	
		For Class 55 Rating, Add	3,836.20	
		For Class 56 Rating, Add	5,081.41	
40 05 19 00-1419	EA	24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,025.40	1,030.31
		For Class 52 Rating, Deduct	-1,921.07	
		For Class 54 Rating, Add	2,638.38	
		For Class 55 Rating, Add	3,932.01	
		For Class 56 Rating, Add	5,208.17	
40 05 19 00-1420	EA	24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,459.10	1,033.34
		For Class 52 Rating, Deduct	-1,968.28	
		For Class 54 Rating, Add	2,702.81	
		For Class 55 Rating, Add	4,027.81	
		For Class 56 Rating, Add	5,334.93	
40 05 19 00-1421	EA	24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,892.81	1,036.35
		For Class 52 Rating, Deduct	-2,015.48	
		For Class 54 Rating, Add	2,767.23	
		For Class 55 Rating, Add	4,123.62	
		For Class 56 Rating, Add	5,461.69	
40 05 19 00-1422	EA	24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,326.51	1,039.36
		For Class 52 Rating, Deduct	-2,062.69	
		For Class 54 Rating, Add	2,831.66	
		For Class 55 Rating, Add	4,219.43	
		For Class 56 Rating, Add	5,588.45	
40 05 19 00-1423	EA	24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,760.22	1,042.37
		For Class 52 Rating, Deduct	-2,109.90	
		For Class 54 Rating, Add	2,896.08	
		For Class 55 Rating, Add	4,315.24	
		For Class 56 Rating, Add	5,715.21	
40 05 19 00-1424		30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1425	EA	30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,100.59	1,241.21
		For Class 52 Rating, Deduct	-574.20	
		For Class 54 Rating, Add	805.56	
		For Class 55 Rating, Add	1,209.19	
		For Class 56 Rating, Add	1,607.59	
40 05 19 00-1426	EA	30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,725.02	1,244.22
		For Class 52 Rating, Deduct	-642.38	
		For Class 54 Rating, Add	898.60	
		For Class 55 Rating, Add	1,347.53	
		For Class 56 Rating, Add	1,790.62	
40 05 19 00-1427	EA	30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,349.46	1,247.23
		For Class 52 Rating, Deduct	-710.57	
		For Class 54 Rating, Add	991.63	
		For Class 55 Rating, Add	1,485.87	
		For Class 56 Rating, Add	1,973.65	
40 05 19 00-1428	EA	30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,973.89	1,250.25
		For Class 52 Rating, Deduct	-778.75	
		For Class 54 Rating, Add	1,084.67	
		For Class 55 Rating, Add	1,624.21	
		For Class 56 Rating, Add	2,156.67	
40 05 19 00-1429	EA	30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,598.33	1,253.26
		For Class 52 Rating, Deduct	-846.94	
		For Class 54 Rating, Add	1,177.70	
		For Class 55 Rating, Add	1,762.55	
		For Class 56 Rating, Add	2,339.70	
40 05 19 00-1430	EA	30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,222.76	1,256.26
		For Class 52 Rating, Deduct	-915.13	
		For Class 54 Rating, Add	1,270.74	
		For Class 55 Rating, Add	1,900.89	
		For Class 56 Rating, Add	2,522.72	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-1431	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		10,847.20		1,259.29
		For Class 52 Rating, Deduct		-983.31		
		For Class 54 Rating, Add		1,363.78		
		For Class 55 Rating, Add		2,039.23		
		For Class 56 Rating, Add		2,705.75		
40 05 19 00-1432	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		11,471.63		1,262.30
		For Class 52 Rating, Deduct		-1,051.50		
		For Class 54 Rating, Add		1,456.81		
		For Class 55 Rating, Add		2,177.57		
		For Class 56 Rating, Add		2,888.78		
40 05 19 00-1433	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,096.07		1,265.30
		For Class 52 Rating, Deduct		-1,119.68		
		For Class 54 Rating, Add		1,549.85		
		For Class 55 Rating, Add		2,315.91		
		For Class 56 Rating, Add		3,071.80		
40 05 19 00-1434	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		12,720.50		1,268.32
		For Class 52 Rating, Deduct		-1,187.87		
		For Class 54 Rating, Add		1,642.88		
		For Class 55 Rating, Add		2,454.26		
		For Class 56 Rating, Add		3,254.83		
40 05 19 00-1435	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,344.94		1,271.33
		For Class 52 Rating, Deduct		-1,256.05		
		For Class 54 Rating, Add		1,735.92		
		For Class 55 Rating, Add		2,592.60		
		For Class 56 Rating, Add		3,437.86		
40 05 19 00-1436	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		13,969.37		1,274.36
		For Class 52 Rating, Deduct		-1,324.24		
		For Class 54 Rating, Add		1,828.95		
		For Class 55 Rating, Add		2,730.94		
		For Class 56 Rating, Add		3,620.88		
40 05 19 00-1437	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		14,593.81		1,277.36
		For Class 52 Rating, Deduct		-1,392.43		
		For Class 54 Rating, Add		1,921.99		
		For Class 55 Rating, Add		2,869.28		
		For Class 56 Rating, Add		3,803.91		
40 05 19 00-1438	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,218.24		1,280.37
		For Class 52 Rating, Deduct		-1,460.61		
		For Class 54 Rating, Add		2,015.02		
		For Class 55 Rating, Add		3,007.62		
		For Class 56 Rating, Add		3,986.93		
40 05 19 00-1439	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		15,842.68		1,283.39
		For Class 52 Rating, Deduct		-1,528.80		
		For Class 54 Rating, Add		2,108.06		
		For Class 55 Rating, Add		3,145.96		
		For Class 56 Rating, Add		4,169.96		
40 05 19 00-1440	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		16,467.12		1,286.39
		For Class 52 Rating, Deduct		-1,596.98		
		For Class 54 Rating, Add		2,201.09		
		For Class 55 Rating, Add		3,284.30		
		For Class 56 Rating, Add		4,352.99		
40 05 19 00-1441	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		17,091.56		1,289.40
		For Class 52 Rating, Deduct		-1,665.17		
		For Class 54 Rating, Add		2,294.13		
		For Class 55 Rating, Add		3,422.64		
		For Class 56 Rating, Add		4,536.01		
40 05 19 00-1442	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		17,715.99		1,292.43
		For Class 52 Rating, Deduct		-1,733.36		
		For Class 54 Rating, Add		2,387.17		
		For Class 55 Rating, Add		3,560.98		
		For Class 56 Rating, Add		4,719.04		
40 05 19 00-1443	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		18,340.43		1,295.44
		For Class 52 Rating, Deduct		-1,801.54		
		For Class 54 Rating, Add		2,480.20		
		For Class 55 Rating, Add		3,699.32		
		For Class 56 Rating, Add		4,902.07		
40 05 19 00-1444	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe		18,964.86		1,298.44
		For Class 52 Rating, Deduct		-1,869.73		
		For Class 54 Rating, Add		2,573.24		
		For Class 55 Rating, Add		3,837.66		
		For Class 56 Rating, Add		5,085.09		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1445	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,589.30	1,301.46
		For Class 52 Rating, Deduct	-1,937.91	
		For Class 54 Rating, Add	2,666.27	
		For Class 55 Rating, Add	3,976.00	
		For Class 56 Rating, Add	5,268.12	
40 05 19 00-1446	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,213.73	1,304.47
		For Class 52 Rating, Deduct	-2,006.10	
		For Class 54 Rating, Add	2,759.31	
		For Class 55 Rating, Add	4,114.34	
		For Class 56 Rating, Add	5,451.14	
40 05 19 00-1447	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,838.17	1,307.47
		For Class 52 Rating, Deduct	-2,074.28	
		For Class 54 Rating, Add	2,852.34	
		For Class 55 Rating, Add	4,252.68	
		For Class 56 Rating, Add	5,634.17	
40 05 19 00-1448	EA	30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,462.61	1,310.50
		For Class 52 Rating, Deduct	-2,142.47	
		For Class 54 Rating, Add	2,945.38	
		For Class 55 Rating, Add	4,391.03	
		For Class 56 Rating, Add	5,817.20	
40 05 19 00-1449	EA	30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,087.05	1,313.51
		For Class 52 Rating, Deduct	-2,210.66	
		For Class 54 Rating, Add	3,038.41	
		For Class 55 Rating, Add	4,529.37	
		For Class 56 Rating, Add	6,000.23	
40 05 19 00-1450	EA	30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,711.48	1,316.53
		For Class 52 Rating, Deduct	-2,278.84	
		For Class 54 Rating, Add	3,131.45	
		For Class 55 Rating, Add	4,667.71	
		For Class 56 Rating, Add	6,183.25	
40 05 19 00-1451	EA	30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,335.92	1,319.53
		For Class 52 Rating, Deduct	-2,347.03	
		For Class 54 Rating, Add	3,224.48	
		For Class 55 Rating, Add	4,806.05	
		For Class 56 Rating, Add	6,366.28	
40 05 19 00-1452	EA	30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,960.35	1,322.54
		For Class 52 Rating, Deduct	-2,415.21	
		For Class 54 Rating, Add	3,317.52	
		For Class 55 Rating, Add	4,944.39	
		For Class 56 Rating, Add	6,549.30	
40 05 19 00-1453	EA	30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,584.79	1,325.57
		For Class 52 Rating, Deduct	-2,483.40	
		For Class 54 Rating, Add	3,410.56	
		For Class 55 Rating, Add	5,082.73	
		For Class 56 Rating, Add	6,732.33	
40 05 19 00-1454	EA	30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,209.22	1,328.58
		For Class 52 Rating, Deduct	-2,551.59	
		For Class 54 Rating, Add	3,503.59	
		For Class 55 Rating, Add	5,221.07	
		For Class 56 Rating, Add	6,915.36	
40 05 19 00-1455	EA	30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,833.66	1,331.58
		For Class 52 Rating, Deduct	-2,619.77	
		For Class 54 Rating, Add	3,596.63	
		For Class 55 Rating, Add	5,359.41	
		For Class 56 Rating, Add	7,098.38	
40 05 19 00-1456	EA	30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,458.09	1,334.60
		For Class 52 Rating, Deduct	-2,687.96	
		For Class 54 Rating, Add	3,689.66	
		For Class 55 Rating, Add	5,497.75	
		For Class 56 Rating, Add	7,281.41	
40 05 19 00-1457	EA	30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,082.53	1,337.61
		For Class 52 Rating, Deduct	-2,756.14	
		For Class 54 Rating, Add	3,782.70	
		For Class 55 Rating, Add	5,636.09	
		For Class 56 Rating, Add	7,464.44	
40 05 19 00-1458	EA	30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,706.96	1,340.62
		For Class 52 Rating, Deduct	-2,824.33	
		For Class 54 Rating, Add	3,875.73	
		For Class 55 Rating, Add	5,774.44	
		For Class 56 Rating, Add	7,647.46	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1459	EA	30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,331.40		1,343.64
		For Class 52 Rating, Deduct	-2,892.51		
		For Class 54 Rating, Add	3,968.77		
		For Class 55 Rating, Add	5,912.78		
		For Class 56 Rating, Add	7,830.49		
40 05 19 00-1460	EA	30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,955.83		1,346.65
		For Class 52 Rating, Deduct	-2,960.70		
		For Class 54 Rating, Add	4,061.80		
		For Class 55 Rating, Add	6,051.12		
		For Class 56 Rating, Add	8,013.51		
40 05 19 00-1461	EA	30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,580.27		1,349.67
		For Class 52 Rating, Deduct	-3,028.89		
		For Class 54 Rating, Add	4,154.84		
		For Class 55 Rating, Add	6,189.46		
		For Class 56 Rating, Add	8,196.54		
40 05 19 00-1462	EA	30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,204.70		1,352.67
		For Class 52 Rating, Deduct	-3,097.07		
		For Class 54 Rating, Add	4,247.87		
		For Class 55 Rating, Add	6,327.80		
		For Class 56 Rating, Add	8,379.57		
40 05 19 00-1463 36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)					
40 05 19 00-1464	EA	36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,816.16		1,572.60
		For Class 52 Rating, Deduct	-817.68		
		For Class 54 Rating, Add	1,143.61		
		For Class 55 Rating, Add	1,714.84		
		For Class 56 Rating, Add	2,278.64		
40 05 19 00-1465	EA	36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,663.94		1,575.62
		For Class 52 Rating, Deduct	-910.43		
		For Class 54 Rating, Add	1,270.15		
		For Class 55 Rating, Add	1,902.99		
		For Class 56 Rating, Add	2,527.56		
40 05 19 00-1466	EA	36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,511.74		1,578.62
		For Class 52 Rating, Deduct	-1,003.19		
		For Class 54 Rating, Add	1,396.69		
		For Class 55 Rating, Add	2,091.14		
		For Class 56 Rating, Add	2,776.47		
40 05 19 00-1467	EA	36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,359.52		1,581.63
		For Class 52 Rating, Deduct	-1,095.94		
		For Class 54 Rating, Add	1,523.22		
		For Class 55 Rating, Add	2,279.29		
		For Class 56 Rating, Add	3,025.39		
40 05 19 00-1468	EA	36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,207.32		1,584.66
		For Class 52 Rating, Deduct	-1,188.70		
		For Class 54 Rating, Add	1,649.76		
		For Class 55 Rating, Add	2,467.44		
		For Class 56 Rating, Add	3,274.31		
40 05 19 00-1469	EA	36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,055.10		1,587.66
		For Class 52 Rating, Deduct	-1,281.45		
		For Class 54 Rating, Add	1,776.30		
		For Class 55 Rating, Add	2,655.58		
		For Class 56 Rating, Add	3,523.22		
40 05 19 00-1470	EA	36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,902.90		1,590.67
		For Class 52 Rating, Deduct	-1,374.21		
		For Class 54 Rating, Add	1,902.84		
		For Class 55 Rating, Add	2,843.73		
		For Class 56 Rating, Add	3,772.14		
40 05 19 00-1471	EA	36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,750.68		1,593.69
		For Class 52 Rating, Deduct	-1,466.96		
		For Class 54 Rating, Add	2,029.38		
		For Class 55 Rating, Add	3,031.88		
		For Class 56 Rating, Add	4,021.05		
40 05 19 00-1472	EA	36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,598.48		1,596.70
		For Class 52 Rating, Deduct	-1,559.72		
		For Class 54 Rating, Add	2,155.92		
		For Class 55 Rating, Add	3,220.03		
		For Class 56 Rating, Add	4,269.97		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473	EA		36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	17,446.27	1,599.70
			For Class 52 Rating, Deduct	-1,652.47	
			For Class 54 Rating, Add	2,282.46	
			For Class 55 Rating, Add	3,408.18	
			For Class 56 Rating, Add	4,518.89	
40 05 19 00-1474	EA		36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	18,294.06	1,602.73
			For Class 52 Rating, Deduct	-1,745.23	
			For Class 54 Rating, Add	2,408.99	
			For Class 55 Rating, Add	3,596.33	
			For Class 56 Rating, Add	4,767.80	
40 05 19 00-1475	EA		36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	19,141.85	1,605.74
			For Class 52 Rating, Deduct	-1,837.98	
			For Class 54 Rating, Add	2,535.53	
			For Class 55 Rating, Add	3,784.48	
			For Class 56 Rating, Add	5,016.72	
40 05 19 00-1476	EA		36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	19,989.64	1,608.74
			For Class 52 Rating, Deduct	-1,930.74	
			For Class 54 Rating, Add	2,662.07	
			For Class 55 Rating, Add	3,972.63	
			For Class 56 Rating, Add	5,265.63	
40 05 19 00-1477	EA		36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	20,837.43	1,611.76
			For Class 52 Rating, Deduct	-2,023.49	
			For Class 54 Rating, Add	2,788.61	
			For Class 55 Rating, Add	4,160.78	
			For Class 56 Rating, Add	5,514.55	
40 05 19 00-1478	EA		36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	21,685.22	1,614.77
			For Class 52 Rating, Deduct	-2,116.24	
			For Class 54 Rating, Add	2,915.15	
			For Class 55 Rating, Add	4,348.92	
			For Class 56 Rating, Add	5,763.46	
40 05 19 00-1479	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	22,533.01	1,617.79
			For Class 52 Rating, Deduct	-2,209.00	
			For Class 54 Rating, Add	3,041.69	
			For Class 55 Rating, Add	4,537.07	
			For Class 56 Rating, Add	6,012.38	
40 05 19 00-1480	EA		36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	23,380.80	1,620.79
			For Class 52 Rating, Deduct	-2,301.75	
			For Class 54 Rating, Add	3,168.23	
			For Class 55 Rating, Add	4,725.22	
			For Class 56 Rating, Add	6,261.29	
40 05 19 00-1481	EA		36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
			Pipe	24,228.59	1,623.81
			For Class 52 Rating, Deduct	-2,394.51	
			For Class 54 Rating, Add	3,294.76	
			For Class 55 Rating, Add	4,913.37	
			For Class 56 Rating, Add	6,510.21	
40 05 19 00-1482	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	25,076.39	1,626.83
			For Class 52 Rating, Deduct	-2,487.27	
			For Class 54 Rating, Add	3,421.30	
			For Class 55 Rating, Add	5,101.52	
			For Class 56 Rating, Add	6,759.13	
40 05 19 00-1483	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	25,924.17	1,629.84
			For Class 52 Rating, Deduct	-2,580.02	
			For Class 54 Rating, Add	3,547.84	
			For Class 55 Rating, Add	5,289.67	
			For Class 56 Rating, Add	7,008.04	
40 05 19 00-1484	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	26,771.97	1,632.84
			For Class 52 Rating, Deduct	-2,672.77	
			For Class 54 Rating, Add	3,674.38	
			For Class 55 Rating, Add	5,477.82	
			For Class 56 Rating, Add	7,256.96	
40 05 19 00-1485	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	27,619.75	1,635.86
			For Class 52 Rating, Deduct	-2,765.53	
			For Class 54 Rating, Add	3,800.92	
			For Class 55 Rating, Add	5,665.97	
			For Class 56 Rating, Add	7,505.87	
40 05 19 00-1486	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile		
			Iron Pipe	28,467.55	1,638.88
			For Class 52 Rating, Deduct	-2,858.28	
			For Class 54 Rating, Add	3,927.46	
			For Class 55 Rating, Add	5,854.12	
			For Class 56 Rating, Add	7,754.79	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1487	EA	36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,315.32		1,641.89
		For Class 52 Rating, Deduct	-2,951.04		
		For Class 54 Rating, Add	4,054.00		
		For Class 55 Rating, Add	6,042.26		
		For Class 56 Rating, Add	8,003.71		
40 05 19 00-1488	EA	36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,163.12		1,644.90
		For Class 52 Rating, Deduct	-3,043.79		
		For Class 54 Rating, Add	4,180.53		
		For Class 55 Rating, Add	6,230.41		
		For Class 56 Rating, Add	8,252.62		
40 05 19 00-1489	EA	36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,010.91		1,647.91
		For Class 52 Rating, Deduct	-3,136.55		
		For Class 54 Rating, Add	4,307.07		
		For Class 55 Rating, Add	6,418.56		
		For Class 56 Rating, Add	8,501.54		
40 05 19 00-1490	EA	36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,858.70		1,650.93
		For Class 52 Rating, Deduct	-3,229.30		
		For Class 54 Rating, Add	4,433.61		
		For Class 55 Rating, Add	6,606.71		
		For Class 56 Rating, Add	8,750.45		
40 05 19 00-1491	EA	36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,706.49		1,653.93
		For Class 52 Rating, Deduct	-3,322.06		
		For Class 54 Rating, Add	4,560.15		
		For Class 55 Rating, Add	6,794.86		
		For Class 56 Rating, Add	8,999.37		
40 05 19 00-1492	EA	36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,554.28		1,656.95
		For Class 52 Rating, Deduct	-3,414.81		
		For Class 54 Rating, Add	4,686.69		
		For Class 55 Rating, Add	6,983.01		
		For Class 56 Rating, Add	9,248.29		
40 05 19 00-1493	EA	36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,402.07		1,659.97
		For Class 52 Rating, Deduct	-3,507.57		
		For Class 54 Rating, Add	4,813.23		
		For Class 55 Rating, Add	7,171.16		
		For Class 56 Rating, Add	9,497.20		
40 05 19 00-1494	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,249.86		1,662.97
		For Class 52 Rating, Deduct	-3,600.32		
		For Class 54 Rating, Add	4,939.77		
		For Class 55 Rating, Add	7,359.31		
		For Class 56 Rating, Add	9,746.12		
40 05 19 00-1495	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,097.65		1,665.99
		For Class 52 Rating, Deduct	-3,693.08		
		For Class 54 Rating, Add	5,066.31		
		For Class 55 Rating, Add	7,547.46		
		For Class 56 Rating, Add	9,995.03		
40 05 19 00-1496	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,945.44		1,669.00
		For Class 52 Rating, Deduct	-3,785.83		
		For Class 54 Rating, Add	5,192.84		
		For Class 55 Rating, Add	7,735.60		
		For Class 56 Rating, Add	10,243.95		
40 05 19 00-1497	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,793.23		1,672.02
		For Class 52 Rating, Deduct	-3,878.59		
		For Class 54 Rating, Add	5,319.38		
		For Class 55 Rating, Add	7,923.75		
		For Class 56 Rating, Add	10,492.87		
40 05 19 00-1498	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,641.03		1,675.03
		For Class 52 Rating, Deduct	-3,971.34		
		For Class 54 Rating, Add	5,445.92		
		For Class 55 Rating, Add	8,111.90		
		For Class 56 Rating, Add	10,741.78		
40 05 19 00-1499	EA	36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,488.81		1,678.04
		For Class 52 Rating, Deduct	-4,064.10		
		For Class 54 Rating, Add	5,572.46		
		For Class 55 Rating, Add	8,300.05		
		For Class 56 Rating, Add	10,990.70		
40 05 19 00-1500	EA	36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,336.61		1,681.05
		For Class 52 Rating, Deduct	-4,156.85		
		For Class 54 Rating, Add	5,699.00		
		For Class 55 Rating, Add	8,488.20		
		For Class 56 Rating, Add	11,239.61		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501	EA		36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,184.39	1,684.06
			For Class 52 Rating, Deduct	-4,249.61	
			For Class 54 Rating, Add	5,825.54	
			For Class 55 Rating, Add	8,676.35	
			For Class 56 Rating, Add	11,488.53	
40 05 19 00-1502			42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1503	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,969.13	1,982.31
			For Class 52 Rating, Deduct	-1,096.22	
			For Class 54 Rating, Add	1,530.89	
			For Class 55 Rating, Add	2,294.42	
			For Class 56 Rating, Add	3,047.98	
40 05 19 00-1504	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,233.51	1,985.33
			For Class 52 Rating, Deduct	-1,234.80	
			For Class 54 Rating, Add	1,719.91	
			For Class 55 Rating, Add	2,575.47	
			For Class 56 Rating, Add	3,419.80	
40 05 19 00-1505	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,482.84	1,988.34
			For Class 52 Rating, Deduct	-1,371.72	
			For Class 54 Rating, Add	1,906.68	
			For Class 55 Rating, Add	2,853.16	
			For Class 56 Rating, Add	3,787.16	
40 05 19 00-1506	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,744.71	1,991.36
			For Class 52 Rating, Deduct	-1,510.03	
			For Class 54 Rating, Add	2,095.33	
			For Class 55 Rating, Add	3,133.65	
			For Class 56 Rating, Add	4,158.23	
40 05 19 00-1507	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,994.04	1,994.37
			For Class 52 Rating, Deduct	-1,646.95	
			For Class 54 Rating, Add	2,282.10	
			For Class 55 Rating, Add	3,411.34	
			For Class 56 Rating, Add	4,525.60	
40 05 19 00-1508	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,258.42	1,997.37
			For Class 52 Rating, Deduct	-1,785.53	
			For Class 54 Rating, Add	2,471.13	
			For Class 55 Rating, Add	3,692.39	
			For Class 56 Rating, Add	4,897.41	
40 05 19 00-1509	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,505.24	2,000.39
			For Class 52 Rating, Deduct	-1,922.18	
			For Class 54 Rating, Add	2,657.52	
			For Class 55 Rating, Add	3,969.52	
			For Class 56 Rating, Add	5,264.04	
40 05 19 00-1510	EA		42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,769.62	2,003.41
			For Class 52 Rating, Deduct	-2,060.76	
			For Class 54 Rating, Add	2,846.55	
			For Class 55 Rating, Add	4,250.57	
			For Class 56 Rating, Add	5,635.85	
40 05 19 00-1511	EA		42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,018.96	2,006.42
			For Class 52 Rating, Deduct	-2,197.68	
			For Class 54 Rating, Add	3,033.32	
			For Class 55 Rating, Add	4,528.26	
			For Class 56 Rating, Add	6,003.23	
40 05 19 00-1512	EA		42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,280.83	2,009.43
			For Class 52 Rating, Deduct	-2,335.99	
			For Class 54 Rating, Add	3,221.97	
			For Class 55 Rating, Add	4,808.75	
			For Class 56 Rating, Add	6,374.30	
40 05 19 00-1513	EA		42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,530.16	2,012.44
			For Class 52 Rating, Deduct	-2,472.91	
			For Class 54 Rating, Add	3,408.74	
			For Class 55 Rating, Add	5,086.44	
			For Class 56 Rating, Add	6,741.66	
40 05 19 00-1514	EA		42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,792.03	2,015.46
			For Class 52 Rating, Deduct	-2,611.21	
			For Class 54 Rating, Add	3,597.39	
			For Class 55 Rating, Add	5,366.93	
			For Class 56 Rating, Add	7,112.74	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-1515	EA	42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,041.36		2,018.46
		For Class 52 Rating, Deduct	-2,748.14		
		For Class 54 Rating, Add	3,784.16		
		For Class 55 Rating, Add	5,644.62		
		For Class 56 Rating, Add	7,480.10		
40 05 19 00-1516	EA	42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,293.18		2,021.48
		For Class 52 Rating, Deduct	-2,885.34		
		For Class 54 Rating, Add	3,971.31		
		For Class 55 Rating, Add	5,922.87		
		For Class 56 Rating, Add	7,848.21		
40 05 19 00-1517	EA	42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,552.55		2,024.50
		For Class 52 Rating, Deduct	-3,023.37		
		For Class 54 Rating, Add	4,159.58		
		For Class 55 Rating, Add	6,202.80		
		For Class 56 Rating, Add	8,218.54		
40 05 19 00-1518	EA	42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,801.87		2,027.51
		For Class 52 Rating, Deduct	-3,160.29		
		For Class 54 Rating, Add	4,346.35		
		For Class 55 Rating, Add	6,480.49		
		For Class 56 Rating, Add	8,585.91		
40 05 19 00-1519	EA	42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,066.26		2,030.51
		For Class 52 Rating, Deduct	-3,298.87		
		For Class 54 Rating, Add	4,535.38		
		For Class 55 Rating, Add	6,761.54		
		For Class 56 Rating, Add	8,957.72		
40 05 19 00-1520	EA	42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,315.58		2,033.53
		For Class 52 Rating, Deduct	-3,435.79		
		For Class 54 Rating, Add	4,722.15		
		For Class 55 Rating, Add	7,039.24		
		For Class 56 Rating, Add	9,325.09		
40 05 19 00-1521	EA	42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,577.46		2,036.55
		For Class 52 Rating, Deduct	-3,574.10		
		For Class 54 Rating, Add	4,910.80		
		For Class 55 Rating, Add	7,319.73		
		For Class 56 Rating, Add	9,696.16		
40 05 19 00-1522	EA	42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,826.78		2,039.55
		For Class 52 Rating, Deduct	-3,711.02		
		For Class 54 Rating, Add	5,097.57		
		For Class 55 Rating, Add	7,597.42		
		For Class 56 Rating, Add	10,063.53		
40 05 19 00-1523	EA	42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,091.17		2,042.57
		For Class 52 Rating, Deduct	-3,849.60		
		For Class 54 Rating, Add	5,286.59		
		For Class 55 Rating, Add	7,878.47		
		For Class 56 Rating, Add	10,435.34		
40 05 19 00-1524	EA	42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,340.49		2,045.58
		For Class 52 Rating, Deduct	-3,986.52		
		For Class 54 Rating, Add	5,473.36		
		For Class 55 Rating, Add	8,156.16		
		For Class 56 Rating, Add	10,802.71		
40 05 19 00-1525	EA	42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,602.37		2,048.60
		For Class 52 Rating, Deduct	-4,124.83		
		For Class 54 Rating, Add	5,662.01		
		For Class 55 Rating, Add	8,436.65		
		For Class 56 Rating, Add	11,173.78		
40 05 19 00-1526	EA	42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,851.69		2,051.60
		For Class 52 Rating, Deduct	-4,261.75		
		For Class 54 Rating, Add	5,848.78		
		For Class 55 Rating, Add	8,714.34		
		For Class 56 Rating, Add	11,541.15		
40 05 19 00-1527	EA	42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,116.08		2,054.62
		For Class 52 Rating, Deduct	-4,400.33		
		For Class 54 Rating, Add	6,037.81		
		For Class 55 Rating, Add	8,995.39		
		For Class 56 Rating, Add	11,912.96		
40 05 19 00-1528	EA	42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,365.41		2,057.64
		For Class 52 Rating, Deduct	-4,537.26		
		For Class 54 Rating, Add	6,224.58		
		For Class 55 Rating, Add	9,273.08		
		For Class 56 Rating, Add	12,280.33		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,624.78	2,060.64
			For Class 52 Rating, Deduct	-4,675.28	
			For Class 54 Rating, Add	6,412.85	
			For Class 55 Rating, Add	9,553.01	
			For Class 56 Rating, Add	12,650.66	
40 05 19 00-1530	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,876.61	2,063.65
			For Class 52 Rating, Deduct	-4,812.48	
			For Class 54 Rating, Add	6,600.00	
			For Class 55 Rating, Add	9,831.26	
			For Class 56 Rating, Add	13,018.77	
40 05 19 00-1531	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,874.98	2,066.67
			For Class 52 Rating, Deduct	-4,921.80	
			For Class 54 Rating, Add	6,749.12	
			For Class 55 Rating, Add	10,052.99	
			For Class 56 Rating, Add	13,312.11	
40 05 19 00-1532	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,387.81	2,069.69
			For Class 52 Rating, Deduct	-5,087.71	
			For Class 54 Rating, Add	6,975.42	
			For Class 55 Rating, Add	10,389.44	
			For Class 56 Rating, Add	13,757.21	
40 05 19 00-1533	EA		42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,637.14	2,072.69
			For Class 52 Rating, Deduct	-5,224.64	
			For Class 54 Rating, Add	7,162.19	
			For Class 55 Rating, Add	10,667.13	
			For Class 56 Rating, Add	14,124.58	
40 05 19 00-1534	EA		42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,899.01	2,075.71
			For Class 52 Rating, Deduct	-5,362.94	
			For Class 54 Rating, Add	7,350.84	
			For Class 55 Rating, Add	10,947.62	
			For Class 56 Rating, Add	14,495.65	
40 05 19 00-1535	EA		42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,148.34	2,078.72
			For Class 52 Rating, Deduct	-5,499.86	
			For Class 54 Rating, Add	7,537.61	
			For Class 55 Rating, Add	11,225.31	
			For Class 56 Rating, Add	14,863.02	
40 05 19 00-1536	EA		42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	54,412.72	2,081.74
			For Class 52 Rating, Deduct	-5,638.44	
			For Class 54 Rating, Add	7,726.64	
			For Class 55 Rating, Add	11,506.36	
			For Class 56 Rating, Add	15,234.83	
40 05 19 00-1537	EA		42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,659.54	2,084.74
			For Class 52 Rating, Deduct	-5,775.09	
			For Class 54 Rating, Add	7,913.03	
			For Class 55 Rating, Add	11,783.49	
			For Class 56 Rating, Add	15,601.46	
40 05 19 00-1538	EA		42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	56,923.92	2,087.76
			For Class 52 Rating, Deduct	-5,913.67	
			For Class 54 Rating, Add	8,102.06	
			For Class 55 Rating, Add	12,064.54	
			For Class 56 Rating, Add	15,973.27	
40 05 19 00-1539	EA		42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,173.25	2,090.78
			For Class 52 Rating, Deduct	-6,050.60	
			For Class 54 Rating, Add	8,288.83	
			For Class 55 Rating, Add	12,342.23	
			For Class 56 Rating, Add	16,340.64	
40 05 19 00-1540	EA		42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,435.12	2,093.78
			For Class 52 Rating, Deduct	-6,188.90	
			For Class 54 Rating, Add	8,477.48	
			For Class 55 Rating, Add	12,622.72	
			For Class 56 Rating, Add	16,711.71	
40 05 19 00-1541			48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-1028)		
40 05 19 00-1542	EA		48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,734.49	2,491.45
			For Class 52 Rating, Deduct	-1,425.55	
			For Class 54 Rating, Add	1,989.23	
			For Class 55 Rating, Add	2,980.58	
			For Class 56 Rating, Add	3,958.97	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-1543	EA	48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,573.58		2,494.46
		For Class 52 Rating, Deduct	-1,627.35		
		For Class 54 Rating, Add	2,264.47		
		For Class 55 Rating, Add	3,389.79		
		For Class 56 Rating, Add	4,500.32		
40 05 19 00-1544	EA	48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,410.15		2,497.48
		For Class 52 Rating, Deduct	-1,828.87		
		For Class 54 Rating, Add	2,539.32		
		For Class 55 Rating, Add	3,798.44		
		For Class 56 Rating, Add	5,040.93		
40 05 19 00-1545	EA	48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,261.79		2,500.49
		For Class 52 Rating, Deduct	-2,032.05		
		For Class 54 Rating, Add	2,816.44		
		For Class 55 Rating, Add	4,210.44		
		For Class 56 Rating, Add	5,585.98		
40 05 19 00-1546	EA	48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,100.86		2,503.49
		For Class 52 Rating, Deduct	-2,233.84		
		For Class 54 Rating, Add	3,091.67		
		For Class 55 Rating, Add	4,619.65		
		For Class 56 Rating, Add	6,127.32		
40 05 19 00-1547	EA	48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,939.95		2,506.52
		For Class 52 Rating, Deduct	-2,435.64		
		For Class 54 Rating, Add	3,366.90		
		For Class 55 Rating, Add	5,028.86		
		For Class 56 Rating, Add	6,668.67		
40 05 19 00-1548	EA	48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,789.07		2,509.53
		For Class 52 Rating, Deduct	-2,638.54		
		For Class 54 Rating, Add	3,643.64		
		For Class 55 Rating, Add	5,440.30		
		For Class 56 Rating, Add	7,212.98		
40 05 19 00-1549	EA	48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,630.66		2,512.53
		For Class 52 Rating, Deduct	-2,840.62		
		For Class 54 Rating, Add	3,919.25		
		For Class 55 Rating, Add	5,850.07		
		For Class 56 Rating, Add	7,755.06		
40 05 19 00-1550	EA	48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,467.23		2,515.55
		For Class 52 Rating, Deduct	-3,042.14		
		For Class 54 Rating, Add	4,194.11		
		For Class 55 Rating, Add	6,258.72		
		For Class 56 Rating, Add	8,295.67		
40 05 19 00-1551	EA	48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,318.87		2,518.56
		For Class 52 Rating, Deduct	-3,245.31		
		For Class 54 Rating, Add	4,471.22		
		For Class 55 Rating, Add	6,670.72		
		For Class 56 Rating, Add	8,840.72		
40 05 19 00-1552	EA	48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,157.95		2,521.59
		For Class 52 Rating, Deduct	-3,447.11		
		For Class 54 Rating, Add	4,746.45		
		For Class 55 Rating, Add	7,079.93		
		For Class 56 Rating, Add	9,382.07		
40 05 19 00-1553	EA	48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,009.58		2,524.59
		For Class 52 Rating, Deduct	-3,650.29		
		For Class 54 Rating, Add	5,023.57		
		For Class 55 Rating, Add	7,491.93		
		For Class 56 Rating, Add	9,927.11		
40 05 19 00-1554	EA	48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,846.15		2,527.60
		For Class 52 Rating, Deduct	-3,851.81		
		For Class 54 Rating, Add	5,298.42		
		For Class 55 Rating, Add	7,900.58		
		For Class 56 Rating, Add	10,467.72		
40 05 19 00-1555	EA	48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,685.24		2,530.62
		For Class 52 Rating, Deduct	-4,053.61		
		For Class 54 Rating, Add	5,573.66		
		For Class 55 Rating, Add	8,309.79		
		For Class 56 Rating, Add	11,009.07		
40 05 19 00-1556	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,536.86		2,533.63
		For Class 52 Rating, Deduct	-4,256.78		
		For Class 54 Rating, Add	5,850.77		
		For Class 55 Rating, Add	8,721.79		
		For Class 56 Rating, Add	11,554.12		



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1557	EA	48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,375.95	2,536.63
		For Class 52 Rating, Deduct	-4,458.58	
		For Class 54 Rating, Add	6,126.00	
		For Class 55 Rating, Add	9,131.00	
		For Class 56 Rating, Add	12,095.46	
40 05 19 00-1558	EA	48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,212.52	2,539.66
		For Class 52 Rating, Deduct	-4,660.10	
		For Class 54 Rating, Add	6,400.86	
		For Class 55 Rating, Add	9,539.65	
		For Class 56 Rating, Add	12,636.07	
40 05 19 00-1559	EA	48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,064.15	2,542.67
		For Class 52 Rating, Deduct	-4,863.28	
		For Class 54 Rating, Add	6,677.97	
		For Class 55 Rating, Add	9,951.65	
		For Class 56 Rating, Add	13,181.12	
40 05 19 00-1560	EA	48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,903.23	2,545.68
		For Class 52 Rating, Deduct	-5,065.08	
		For Class 54 Rating, Add	6,953.21	
		For Class 55 Rating, Add	10,360.86	
		For Class 56 Rating, Add	13,722.47	
40 05 19 00-1561	EA	48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	51,739.81	2,548.69
		For Class 52 Rating, Deduct	-5,266.60	
		For Class 54 Rating, Add	7,228.06	
		For Class 55 Rating, Add	10,769.51	
		For Class 56 Rating, Add	14,263.07	
40 05 19 00-1562	EA	48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,591.43	2,551.70
		For Class 52 Rating, Deduct	-5,469.77	
		For Class 54 Rating, Add	7,505.18	
		For Class 55 Rating, Add	11,181.51	
		For Class 56 Rating, Add	14,808.12	
40 05 19 00-1563	EA	48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,433.02	2,554.73
		For Class 52 Rating, Deduct	-5,671.65	
		For Class 54 Rating, Add	7,780.79	
		For Class 55 Rating, Add	11,591.28	
		For Class 56 Rating, Add	15,350.21	
40 05 19 00-1564	EA	48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,269.59	2,557.73
		For Class 52 Rating, Deduct	-5,873.37	
		For Class 54 Rating, Add	8,055.64	
		For Class 55 Rating, Add	11,999.93	
		For Class 56 Rating, Add	15,890.82	
40 05 19 00-1565	EA	48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	59,121.23	2,560.74
		For Class 52 Rating, Deduct	-6,076.55	
		For Class 54 Rating, Add	8,332.76	
		For Class 55 Rating, Add	12,411.93	
		For Class 56 Rating, Add	16,435.87	
40 05 19 00-1566	EA	48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	60,960.30	2,563.76
		For Class 52 Rating, Deduct	-6,278.34	
		For Class 54 Rating, Add	8,607.99	
		For Class 55 Rating, Add	12,821.14	
		For Class 56 Rating, Add	16,977.21	
40 05 19 00-1567	EA	48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	62,796.88	2,566.76
		For Class 52 Rating, Deduct	-6,479.86	
		For Class 54 Rating, Add	8,882.84	
		For Class 55 Rating, Add	13,229.79	
		For Class 56 Rating, Add	17,517.82	
40 05 19 00-1568	EA	48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	64,648.51	2,569.78
		For Class 52 Rating, Deduct	-6,683.04	
		For Class 54 Rating, Add	9,159.96	
		For Class 55 Rating, Add	13,641.79	
		For Class 56 Rating, Add	18,062.87	
40 05 19 00-1569	EA	48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	66,487.59	2,572.80
		For Class 52 Rating, Deduct	-6,884.84	
		For Class 54 Rating, Add	9,435.19	
		For Class 55 Rating, Add	14,051.00	
		For Class 56 Rating, Add	18,604.21	
40 05 19 00-1570	EA	48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	68,100.81	2,575.81
		For Class 52 Rating, Deduct	-7,061.79	
		For Class 54 Rating, Add	9,676.54	
		For Class 55 Rating, Add	14,409.84	
		For Class 56 Rating, Add	19,078.93	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	70,178.31	2,578.82
			For Class 52 Rating, Deduct	-7,289.81	
			For Class 54 Rating, Add	9,987.54	
			For Class 55 Rating, Add	14,872.21	
			For Class 56 Rating, Add	19,690.61	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	72,014.88	2,581.83
			For Class 52 Rating, Deduct	-7,491.33	
			For Class 54 Rating, Add	10,262.40	
			For Class 55 Rating, Add	15,280.86	
			For Class 56 Rating, Add	20,231.22	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	73,869.02	2,584.84
			For Class 52 Rating, Deduct	-7,694.78	
			For Class 54 Rating, Add	10,539.89	
			For Class 55 Rating, Add	15,693.42	
			For Class 56 Rating, Add	20,777.01	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	75,705.59	2,587.85
			For Class 52 Rating, Deduct	-7,896.31	
			For Class 54 Rating, Add	10,814.74	
			For Class 55 Rating, Add	16,102.07	
			For Class 56 Rating, Add	21,317.61	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	77,542.17	2,590.87
			For Class 52 Rating, Deduct	-8,097.83	
			For Class 54 Rating, Add	11,089.60	
			For Class 55 Rating, Add	16,510.72	
			For Class 56 Rating, Add	21,858.22	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	79,396.30	2,593.89
			For Class 52 Rating, Deduct	-8,301.28	
			For Class 54 Rating, Add	11,367.09	
			For Class 55 Rating, Add	16,923.28	
			For Class 56 Rating, Add	22,404.01	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	81,232.88	2,596.90
			For Class 52 Rating, Deduct	-8,502.80	
			For Class 54 Rating, Add	11,641.94	
			For Class 55 Rating, Add	17,331.93	
			For Class 56 Rating, Add	22,944.61	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	83,071.96	2,599.90
			For Class 52 Rating, Deduct	-8,704.60	
			For Class 54 Rating, Add	11,917.18	
			For Class 55 Rating, Add	17,741.14	
			For Class 56 Rating, Add	23,485.96	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	84,923.59	2,602.92
			For Class 52 Rating, Deduct	-8,907.77	
			For Class 54 Rating, Add	12,194.29	
			For Class 55 Rating, Add	18,153.14	
			For Class 56 Rating, Add	24,031.01	
40 05 19 00-1580			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	425.08	145.35
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	598.63	185.87
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	840.87	210.53
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,232.84	266.91
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,528.10	295.97
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	1,907.75	321.53
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	2,350.17	396.40
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,086.38	475.68
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	3,801.10	599.01
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	5,797.90	678.29
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	9,766.79	898.50
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	13,861.82	1,017.43
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	23,251.59	1,162.78
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow	30,967.30	1,427.04
40 05 19 00-1595			Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	402.65	145.35
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	562.74	185.87
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	749.65	210.53
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,101.25	266.91
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,360.62	295.97
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,566.81	321.53
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	1,973.34	396.40
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	2,579.45	475.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	3,339.04	599.01
40 05 19 00-1605 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	4,404.22	678.29
40 05 19 00-1606 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	8,746.95	898.50
40 05 19 00-1607 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	13,117.13	1,017.43
40 05 19 00-1608 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	20,050.02	1,162.78
40 05 19 00-1609 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow	27,345.54	1,427.04
40 05 19 00-1610 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1611 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	401.16	145.35
40 05 19 00-1612 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	550.77	185.87
40 05 19 00-1613 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	739.19	210.53
40 05 19 00-1614 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,071.34	266.91
40 05 19 00-1615 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,426.42	295.97
40 05 19 00-1616 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,774.66	321.53
40 05 19 00-1617 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,019.70	396.40
40 05 19 00-1618 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,636.28	475.68
40 05 19 00-1619 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,585.77	599.01
40 05 19 00-1620 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,966.48	678.29
40 05 19 00-1621 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	8,847.14	898.50
40 05 19 00-1622 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	13,347.42	1,017.43
40 05 19 00-1623 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	20,509.10	1,162.78
40 05 19 00-1624 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	27,943.68	1,427.04
40 05 19 00-1625 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1626 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	438.54	145.35
40 05 19 00-1627 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	621.06	185.87
40 05 19 00-1628 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	769.09	210.53
40 05 19 00-1629 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,177.51	266.91
40 05 19 00-1630 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,622.31	295.97
40 05 19 00-1631 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,825.51	321.53
40 05 19 00-1632 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,232.04	396.40
40 05 19 00-1633 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,636.28	475.68
40 05 19 00-1634 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,585.77	599.01
40 05 19 00-1635 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,168.35	678.29
40 05 19 00-1636 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	8,947.33	898.50
40 05 19 00-1637 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	13,446.11	1,017.43
40 05 19 00-1638 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	20,613.77	1,162.78
40 05 19 00-1639 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	28,154.53	1,427.04
40 05 19 00-1640 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-0001)		
40 05 19 00-1641 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	566.44	165.60
40 05 19 00-1642 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	700.26	177.94
40 05 19 00-1643 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	789.29	198.20
40 05 19 00-1644 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,057.01	206.13
40 05 19 00-1645 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,116.11	226.39
40 05 19 00-1646 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,220.04	238.72
40 05 19 00-1647 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,136.52	221.11
40 05 19 00-1648 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,280.86	241.36
40 05 19 00-1649 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,473.00	253.69
40 05 19 00-1650 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,569.56	281.88
40 05 19 00-1651 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,473.00	253.69
40 05 19 00-1652 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,632.27	266.02
40 05 19 00-1653 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,818.52	294.21
40 05 19 00-1654 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,013.18	309.19
40 05 19 00-1655 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,698.71	291.13
40 05 19 00-1656 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,832.54	303.46
40 05 19 00-1657 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,104.04	331.65
40 05 19 00-1658 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,296.53	346.19
40 05 19 00-1659 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,459.44	358.96
40 05 19 00-1660 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,987.56	330.78
40 05 19 00-1661 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,378.59	343.11
40 05 19 00-1662 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,449.70	371.30
40 05 19 00-1663 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,586.88	385.83
40 05 19 00-1664 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,806.61	398.60
40 05 19 00-1665 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,060.72	436.04
40 05 19 00-1666 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,565.48	392.44
40 05 19 00-1667 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,738.20	404.77
40 05 19 00-1668 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,395.49	432.96
40 05 19 00-1669 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,523.69	447.50
40 05 19 00-1670 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,886.97	460.26
40 05 19 00-1671 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,801.64	497.70
40 05 19 00-1672 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,047.12	537.34
40 05 19 00-1673 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,609.49	432.07
40 05 19 00-1674 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,783.69	444.40

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1675	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,071.65	472.59
40 05 19 00-1676	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,279.08	487.13
40 05 19 00-1677	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,667.80	499.91
40 05 19 00-1678	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,031.07	537.34
40 05 19 00-1679	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,152.44	576.98
40 05 19 00-1680	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,419.41	570.60
40 05 19 00-1681	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,443.72	597.24
40 05 19 00-1682	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,859.35	610.02
40 05 19 00-1683	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,732.54	647.45
40 05 19 00-1684	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,988.89	687.09
40 05 19 00-1685	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,393.75	748.76
40 05 19 00-1686	EA	30" x 22" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,977.18	788.40
40 05 19 00-1687	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,877.04	656.70
40 05 19 00-1688	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,498.33	669.48
40 05 19 00-1689	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,349.39	706.92
40 05 19 00-1690	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,208.77	746.55
40 05 19 00-1691	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,678.63	808.21
40 05 19 00-1692	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,733.11	847.86
40 05 19 00-1693	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,584.81	957.97
40 05 19 00-1694	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	15,705.72	742.15
40 05 19 00-1695	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,245.75	779.59
40 05 19 00-1696	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	17,841.24	819.23
40 05 19 00-1697	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	17,556.35	880.89
40 05 19 00-1698	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	15,324.02	920.53
40 05 19 00-1699	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,056.90	1,030.64
40 05 19 00-1700	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	25,498.18	1,090.10
40 05 19 00-1701	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	24,403.91	1,063.68
40 05 19 00-1702	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	26,540.13	1,173.78
40 05 19 00-1703	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	27,318.08	1,233.25
40 05 19 00-1704	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	34,933.40	1,305.91
40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-0001)				
40 05 19 00-1706	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	507.33	145.35
40 05 19 00-1707	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	782.56	185.87
40 05 19 00-1708	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,148.91	210.53
40 05 19 00-1709	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,633.60	266.91
40 05 19 00-1710	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,307.18	295.97
40 05 19 00-1711	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,689.83	321.53
40 05 19 00-1712	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,489.64	396.40
40 05 19 00-1713	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,323.04	475.68
40 05 19 00-1714	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	5,894.61	599.01
40 05 19 00-1715	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,660.02	678.29
40 05 19 00-1716	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,244.29	898.50
40 05 19 00-1717	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	23,206.33	1,017.43
40 05 19 00-1718	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	35,984.58	1,162.78
40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-0001)				
40 05 19 00-1720	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	535.74	145.35
40 05 19 00-1721	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	727.23	185.87
40 05 19 00-1722	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,187.79	210.53
40 05 19 00-1723	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,605.18	266.91
40 05 19 00-1724	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,156.15	295.97
40 05 19 00-1725	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,546.27	321.53
40 05 19 00-1726	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,145.70	396.40
40 05 19 00-1727	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,952.19	475.68
40 05 19 00-1728	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,215.71	599.01
40 05 19 00-1729	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,368.03	678.29
40 05 19 00-1730	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	12,078.62	898.50
40 05 19 00-1731	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	17,271.24	1,017.43
40 05 19 00-1732	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	32,078.70	1,162.78
40 05 19 00-1733	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	34,590.56	1,427.04
40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-0001)				
40 05 19 00-1735	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	727.53	233.44
40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	901.66	287.17
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,264.90	320.64
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,815.64	416.66
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,411.34	454.54
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,227.52	488.89
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,657.32	616.62
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,459.22	704.71
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	5,624.76	889.70
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	8,280.10	982.19
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	14,088.57	1,356.57
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	20,303.02	1,554.77



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1747	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	41,974.45	1,797.01
40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees				
(40 05 19 00-0001)				
40 05 19 00-1749	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	910.96	260.74
40 05 19 00-1750	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,126.83	266.02
40 05 19 00-1751	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,126.70	299.50
40 05 19 00-1752	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,485.06	294.21
40 05 19 00-1753	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,466.99	327.69
40 05 19 00-1754	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,546.88	348.83
40 05 19 00-1755	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,881.59	309.19
40 05 19 00-1756	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,876.99	342.67
40 05 19 00-1757	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,982.28	363.81
40 05 19 00-1758	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,361.70	431.64
40 05 19 00-1759	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,740.67	321.53
40 05 19 00-1760	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,682.23	355.00
40 05 19 00-1761	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,800.99	376.14
40 05 19 00-1762	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,959.09	443.97
40 05 19 00-1763	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,138.01	467.31
40 05 19 00-1764	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,323.75	358.96
40 05 19 00-1765	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,063.44	392.44
40 05 19 00-1766	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,014.72	413.58
40 05 19 00-1767	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,537.69	481.40
40 05 19 00-1768	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,433.99	504.75
40 05 19 00-1769	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,828.56	526.33
40 05 19 00-1770	EA	18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,064.20	398.60
40 05 19 00-1771	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,065.18	432.07
40 05 19 00-1772	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,690.88	453.21
40 05 19 00-1773	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,705.41	521.05
40 05 19 00-1774	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,032.38	544.39
40 05 19 00-1775	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,401.53	565.97
40 05 19 00-1776	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,710.31	656.26
40 05 19 00-1777	EA	20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,975.68	460.26
40 05 19 00-1778	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,504.43	493.73
40 05 19 00-1779	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,597.77	514.88
40 05 19 00-1780	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,793.26	582.71
40 05 19 00-1781	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,981.15	606.05
40 05 19 00-1782	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,045.26	627.64
40 05 19 00-1783	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,074.80	717.92
40 05 19 00-1784	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,209.51	766.37
40 05 19 00-1785	EA	24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,959.79	499.91
40 05 19 00-1786	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,149.18	533.38
40 05 19 00-1787	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,383.08	554.52
40 05 19 00-1788	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,598.01	622.35
40 05 19 00-1789	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,273.39	645.69
40 05 19 00-1790	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,428.71	667.27
40 05 19 00-1791	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,646.26	757.56
40 05 19 00-1792	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	8,730.94	806.02
40 05 19 00-1793	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,031.51	861.30
40 05 19 00-1794	EA	30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,572.20	643.49
40 05 19 00-1795	EA	30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,635.63	664.63
40 05 19 00-1796	EA	30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,937.29	732.46
40 05 19 00-1797	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	10,972.66	755.80
40 05 19 00-1798	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,005.37	777.39
40 05 19 00-1799	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,240.85	867.68
40 05 19 00-1800	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,380.07	916.12
40 05 19 00-1801	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,729.91	1,039.44
40 05 19 00-1802	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,010.06	1,092.30
40 05 19 00-1803	EA	36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	14,584.49	920.96
40 05 19 00-1804	EA	36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,601.27	937.71
40 05 19 00-1805	EA	36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,706.91	985.72
40 05 19 00-1806	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,834.29	1,004.65
40 05 19 00-1807	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,893.22	1,021.83
40 05 19 00-1808	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,055.77	1,085.69
40 05 19 00-1809	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,155.40	1,129.74
40 05 19 00-1810	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,427.14	1,222.23
40 05 19 00-1811	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,794.79	1,268.48
40 05 19 00-1812	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	21,989.17	1,455.67
40 05 19 00-1813	EA	42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	26,067.58	796.77
40 05 19 00-1814	EA	42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,574.41	864.59
40 05 19 00-1815	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,609.78	887.93
40 05 19 00-1816	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,676.87	909.52
40 05 19 00-1817	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,883.95	999.81
40 05 19 00-1818	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,133.81	1,048.25
40 05 19 00-1819	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,320.67	1,171.59
40 05 19 00-1820	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	24,681.87	1,224.44
40 05 19 00-1821	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	31,271.58	1,488.70
40 05 19 00-1822	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	40,169.83	1,627.44
40 05 19 00-1823	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	31,916.55	1,031.08
40 05 19 00-1824	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	31,949.25	1,052.66
40 05 19 00-1825	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	32,190.74	1,142.96

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	32,264.14	1,191.40
40 05 19 00-1827	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	32,590.07	1,314.72
40 05 19 00-1828	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	32,916.88	1,367.58
40 05 19 00-1829	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,810.75	1,631.85
40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)				
40 05 19 00-1831	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	784.35	233.44
40 05 19 00-1832	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,064.66	287.17
40 05 19 00-1833	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base	1,546.03	320.64
40 05 19 00-1834	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,346.49	416.66
40 05 19 00-1835	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,147.06	454.54
40 05 19 00-1836	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,514.63	488.89
40 05 19 00-1837	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,363.13	616.62
40 05 19 00-1838	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	5,298.11	704.71
40 05 19 00-1839	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	7,072.27	889.70
40 05 19 00-1840	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	10,167.24	982.19
40 05 19 00-1841	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	17,026.95	1,356.57
40 05 19 00-1842	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	24,249.28	1,554.77
40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)				
40 05 19 00-1844	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	640.80	233.44
40 05 19 00-1845	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	894.19	287.17
40 05 19 00-1846	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,287.33	320.64
40 05 19 00-1847	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,691.52	416.66
40 05 19 00-1848	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	2,403.87	454.54
40 05 19 00-1849	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	3,113.88	488.89
40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)				
40 05 19 00-1851	EA	4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	880.44	321.53
40 05 19 00-1852	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,157.41	348.39
40 05 19 00-1853	EA	6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,227.11	388.47
40 05 19 00-1854	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,423.29	354.11
40 05 19 00-1855	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,552.35	400.80
40 05 19 00-1856	EA	8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,608.20	430.75
40 05 19 00-1857	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,836.85	382.31
40 05 19 00-1858	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,022.73	428.99
40 05 19 00-1859	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,211.67	458.94
40 05 19 00-1860	EA	10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,745.34	566.41
40 05 19 00-1861	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,373.28	396.84
40 05 19 00-1862	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,500.84	443.53
40 05 19 00-1863	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,691.27	473.48
40 05 19 00-1864	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,253.36	580.95
40 05 19 00-1865	EA	12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,067.30	613.10
40 05 19 00-1866	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,977.77	456.30
40 05 19 00-1867	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,166.70	486.25
40 05 19 00-1868	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,529.92	593.72
40 05 19 00-1869	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,837.33	625.88
40 05 19 00-1870	EA	14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,025.43	656.26
40 05 19 00-1871	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,550.39	493.73
40 05 19 00-1872	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,766.24	523.68
40 05 19 00-1873	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,129.45	631.16
40 05 19 00-1874	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,465.28	663.31
40 05 19 00-1875	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,214.54	693.70
40 05 19 00-1876	EA	16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,070.64	836.84
40 05 19 00-1877	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,697.19	533.38
40 05 19 00-1878	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,911.54	563.33
40 05 19 00-1879	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,217.92	670.80
40 05 19 00-1880	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,552.25	702.95
40 05 19 00-1881	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,226.35	733.34
40 05 19 00-1882	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,701.94	876.49
40 05 19 00-1883	EA	18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,960.65	933.74
40 05 19 00-1884	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,811.94	595.04
40 05 19 00-1885	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,041.26	624.99
40 05 19 00-1886	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,326.70	732.46
40 05 19 00-1887	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,683.46	764.61
40 05 19 00-1888	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,790.82	795.00
40 05 19 00-1889	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,054.45	938.15
40 05 19 00-1890	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,325.14	995.40
40 05 19 00-1891	EA	20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,037.58	1,180.40
40 05 19 00-1892	EA	24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,349.42	634.68
40 05 19 00-1893	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,515.92	664.63
40 05 19 00-1894	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,894.09	772.10
40 05 19 00-1895	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,128.23	804.26
40 05 19 00-1896	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,266.99	834.64
40 05 19 00-1897	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,699.20	977.78
40 05 19 00-1898	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	9,972.17	1,035.05



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-1899	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	10,547.12	1,151.99
40 05 19 00-1900	EA	24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	11,613.14	1,286.10
40 05 19 00-1901	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	11,707.87	914.36
40 05 19 00-1902	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	11,786.81	944.75
40 05 19 00-1903	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,233.98	1,087.90
40 05 19 00-1904	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	12,386.53	1,145.15
40 05 19 00-1905	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	13,030.19	1,330.14
40 05 19 00-1906	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	16,922.52	1,396.21
40 05 19 00-1907	EA	30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	19,235.78	1,814.63
40 05 19 00-1908	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	16,533.62	1,163.21
40 05 19 00-1909	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	16,572.99	1,189.20
40 05 19 00-1910	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	16,950.20	1,305.91
40 05 19 00-1911	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,094.59	1,358.78
40 05 19 00-1912	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	17,625.74	1,512.92
40 05 19 00-1913	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	18,243.68	1,572.39
40 05 19 00-1914	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,661.56	1,913.73
40 05 19 00-1915	EA	36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	27,041.80	2,092.11
40 05 19 00-1916	EA	42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,377.88	1,046.49
40 05 19 00-1917	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,423.93	1,076.88
40 05 19 00-1918	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,851.65	1,220.03
40 05 19 00-1919	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	24,972.81	1,277.29
40 05 19 00-1920	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	25,570.09	1,462.28
40 05 19 00-1921	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	26,198.06	1,528.34
40 05 19 00-1922	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	33,724.15	1,946.77
40 05 19 00-1923	EA	42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	46,576.62	2,164.78
40 05 19 00-1924	EA	48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,564.39	2,431.25
40 05 19 00-1925	EA	48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	32,693.32	1,220.03
40 05 19 00-1926	EA	48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	33,122.55	1,363.17
40 05 19 00-1927	EA	48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	33,243.70	1,420.44
40 05 19 00-1928	EA	48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	33,805.11	1,605.42
40 05 19 00-1929	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	34,433.07	1,671.48
40 05 19 00-1930	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross	36,016.60	2,089.90
40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)				
40 05 19 00-1932	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	469.24	165.60
40 05 19 00-1933	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	597.08	177.94
40 05 19 00-1934	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	657.70	198.20
40 05 19 00-1935	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	801.30	206.13
40 05 19 00-1936	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	809.56	226.39
40 05 19 00-1937	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	944.89	238.72
40 05 19 00-1938	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,021.38	221.11
40 05 19 00-1939	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,056.56	241.36
40 05 19 00-1940	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,157.48	253.69
40 05 19 00-1941	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,301.89	281.88
40 05 19 00-1942	EA	14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,591.90	241.36
40 05 19 00-1943	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,271.13	253.69
40 05 19 00-1944	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,404.97	266.02
40 05 19 00-1945	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,544.87	294.21
40 05 19 00-1946	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,503.26	309.19
40 05 19 00-1947	EA	16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,883.34	270.88
40 05 19 00-1948	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,529.73	291.13
40 05 19 00-1949	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,446.74	303.46
40 05 19 00-1950	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,612.07	331.65
40 05 19 00-1951	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,994.47	346.19
40 05 19 00-1952	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,145.41	358.96
40 05 19 00-1953	EA	18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,382.33	330.78
40 05 19 00-1954	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,892.60	343.11
40 05 19 00-1955	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,078.86	371.30
40 05 19 00-1956	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,066.49	385.83
40 05 19 00-1957	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,375.94	398.60
40 05 19 00-1958	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,374.35	436.04
40 05 19 00-1959	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,441.37	392.44
40 05 19 00-1960	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,368.84	404.77
40 05 19 00-1961	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,565.56	432.96
40 05 19 00-1962	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,502.36	447.50
40 05 19 00-1963	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,885.08	460.26
40 05 19 00-1964	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,711.53	497.70
40 05 19 00-1965	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,339.81	537.34
40 05 19 00-1966	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,197.51	444.40
40 05 19 00-1967	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,609.58	472.59
40 05 19 00-1968	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,881.32	487.13
40 05 19 00-1969	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,984.42	499.91
40 05 19 00-1970	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,531.22	537.34
40 05 19 00-1971	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,259.72	576.98
40 05 19 00-1972	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	4,496.77	570.60
40 05 19 00-1973	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,125.03	647.45
40 05 19 00-1974	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,383.97	687.09
40 05 19 00-1975	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	6,873.67	748.76
40 05 19 00-1976	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	7,593.18	788.40

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1977	EA		36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,359.46	706.92
40 05 19 00-1978	EA		36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	8,781.40	746.55
40 05 19 00-1979	EA		36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	9,336.90	808.21
40 05 19 00-1980	EA		36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	10,156.60	847.86
40 05 19 00-1981	EA		36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	11,708.13	957.97
40 05 19 00-1982	EA		42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	14,198.01	920.53
40 05 19 00-1983	EA		42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	16,051.62	1,030.64
40 05 19 00-1984	EA		42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,146.99	1,090.10
40 05 19 00-1985	EA		48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	18,036.66	1,063.68
40 05 19 00-1986	EA		48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	20,243.17	1,173.78
40 05 19 00-1987	EA		48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	22,619.66	1,233.25
40 05 19 00-1988	EA		48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer	25,333.19	1,305.91

40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)

40 05 19 00-1990	EA		6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	509.62	165.60
40 05 19 00-1991	EA		8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	643.44	177.94
40 05 19 00-1992	EA		8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	730.97	198.20
40 05 19 00-1993	EA		10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	801.30	206.13
40 05 19 00-1994	EA		10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	858.91	226.39
40 05 19 00-1995	EA		10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	991.25	238.72
40 05 19 00-1996	EA		12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,021.38	221.11
40 05 19 00-1997	EA		12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,110.39	241.36
40 05 19 00-1998	EA		12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,214.30	253.69
40 05 19 00-1999	EA		12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,400.58	281.88
40 05 19 00-2000	EA		14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,271.13	253.69
40 05 19 00-2001	EA		14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,376.56	266.02
40 05 19 00-2002	EA		14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,534.40	294.21
40 05 19 00-2003	EA		14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,755.97	309.19
40 05 19 00-2004	EA		16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,529.73	291.13
40 05 19 00-2005	EA		16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,660.57	303.46
40 05 19 00-2006	EA		16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,846.84	331.65
40 05 19 00-2007	EA		16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,040.83	346.19
40 05 19 00-2008	EA		16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,145.41	358.96
40 05 19 00-2009	EA		18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,892.60	343.11
40 05 19 00-2010	EA		18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,078.86	371.30
40 05 19 00-2011	EA		18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,272.85	385.83
40 05 19 00-2012	EA		18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,375.94	398.60
40 05 19 00-2013	EA		18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,604.64	436.04
40 05 19 00-2014	EA		20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,761.38	392.44
40 05 19 00-2015	EA		20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,522.86	404.77
40 05 19 00-2016	EA		20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,565.56	432.96
40 05 19 00-2017	EA		20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,802.93	447.50
40 05 19 00-2018	EA		20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,885.08	460.26
40 05 19 00-2019	EA		20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,154.15	497.70
40 05 19 00-2020	EA		20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,338.32	537.34
40 05 19 00-2021	EA		24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,505.55	444.40
40 05 19 00-2022	EA		24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,609.58	472.59
40 05 19 00-2023	EA		24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,692.90	487.13
40 05 19 00-2024	EA		24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,773.57	499.91
40 05 19 00-2025	EA		24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,047.12	537.34
40 05 19 00-2026	EA		24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,259.72	576.98
40 05 19 00-2027	EA		24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,496.77	570.60
40 05 19 00-2028	EA		30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,322.92	610.02
40 05 19 00-2029	EA		30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,147.85	647.45
40 05 19 00-2030	EA		30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,416.87	687.09
40 05 19 00-2031	EA		30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,873.67	748.76
40 05 19 00-2032	EA		30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,593.18	788.40
40 05 19 00-2033	EA		36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,425.26	706.92
40 05 19 00-2034	EA		36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,781.40	746.55
40 05 19 00-2035	EA		36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	9,304.00	808.21
40 05 19 00-2036	EA		36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	10,120.71	847.86
40 05 19 00-2037	EA		36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	11,675.24	957.97
40 05 19 00-2038	EA		42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	14,198.01	920.53
40 05 19 00-2039	EA		42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	12,014.15	1,030.64
40 05 19 00-2040	EA		42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	18,146.99	1,090.10
40 05 19 00-2041	EA		48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	20,243.17	1,173.78
40 05 19 00-2042	EA		48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	22,619.66	1,233.25
40 05 19 00-2043	EA		48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	25,333.19	1,305.91

40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)

40 05 19 00-2045	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	180.97	57.26
40 05 19 00-2046	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	271.68	84.56
40 05 19 00-2047	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	392.90	100.42
40 05 19 00-2048	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	539.40	117.16
40 05 19 00-2049	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	695.70	137.42
40 05 19 00-2050	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	918.44	154.16
40 05 19 00-2051	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,096.85	176.18



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2052	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,486.26	246.65
40 05 19 00-2053	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	1,972.97	308.31
40 05 19 00-2054	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	2,807.29	374.38
40 05 19 00-2055	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	3,953.45	436.04
40 05 19 00-2056	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	7,046.79	480.08
40 05 19 00-2057	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	9,928.49	528.54
40 05 19 00-2058	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange	13,116.51	594.60
40 05 19 00-2059		Flanged End (FxF), Ductile Iron Flexible Ball Joint (40 05 19 00-0001) Note: All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.		
40 05 19 00-2060	EA	3" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,124.49	101.15
40 05 19 00-2061	EA	4" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	1,305.40	118.68
40 05 19 00-2062	EA	6" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,075.87	148.35
40 05 19 00-2063	EA	8" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	2,753.72	169.57
40 05 19 00-2064	EA	10" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	3,803.61	256.12
40 05 19 00-2065	EA	12" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	4,975.98	279.40
40 05 19 00-2066	EA	14" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	5,763.81	307.35
40 05 19 00-2067	EA	16" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	6,406.69	341.46
40 05 19 00-2068	EA	18" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,169.78	384.18
40 05 19 00-2069	EA	20" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	9,367.39	439.01
40 05 19 00-2070	EA	24" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	16,377.61	512.24
40 05 19 00-2071	EA	30" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	57,375.56	614.69
40 05 19 00-2072	EA	36" Diameter, Flange x Flange, Ductile Iron, Flexible Ball Joint	81,466.82	768.36
40 05 19 00-2073		Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Piping (40 05 19) Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be ceramic epoxy. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4103 for bolts, 40 05 19 00-4118 for gaskets.		
40 05 19 00-2074		Flanged End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-2075		4" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2076	EA	4" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,193.99	251.93
		For Class 52 Rating, Deduct	-89.35	
		For Class 54 Rating, Add	126.42	
		For Class 55 Rating, Add	190.30	
		For Class 56 Rating, Add	253.36	
40 05 19 00-2077	EA	4" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,316.27	256.34
		For Class 52 Rating, Deduct	-102.07	
		For Class 54 Rating, Add	143.84	
		For Class 55 Rating, Add	216.24	
		For Class 56 Rating, Add	287.71	
40 05 19 00-2078	EA	4" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,438.55	260.74
		For Class 52 Rating, Deduct	-114.78	
		For Class 54 Rating, Add	161.26	
		For Class 55 Rating, Add	242.18	
		For Class 56 Rating, Add	322.05	
40 05 19 00-2079	EA	4" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,560.83	265.15
		For Class 52 Rating, Deduct	-127.50	
		For Class 54 Rating, Add	178.68	
		For Class 55 Rating, Add	268.12	
		For Class 56 Rating, Add	356.39	
40 05 19 00-2080	EA	4" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,683.12	269.55
		For Class 52 Rating, Deduct	-140.22	
		For Class 54 Rating, Add	196.11	
		For Class 55 Rating, Add	294.06	
		For Class 56 Rating, Add	390.74	
40 05 19 00-2081	EA	4" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,805.39	273.96
		For Class 52 Rating, Deduct	-152.93	
		For Class 54 Rating, Add	213.53	
		For Class 55 Rating, Add	320.00	
		For Class 56 Rating, Add	425.08	
40 05 19 00-2082	EA	4" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,927.67	278.36
		For Class 52 Rating, Deduct	-165.65	
		For Class 54 Rating, Add	230.95	
		For Class 55 Rating, Add	345.94	
		For Class 56 Rating, Add	459.43	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2083	EA	4" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,049.94		282.77
		For Class 52 Rating, Deduct		-178.37		
		For Class 54 Rating, Add		248.37		
		For Class 55 Rating, Add		371.88		
		For Class 56 Rating, Add		493.77		
40 05 19 00-2084	EA	4" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,172.23		287.17
		For Class 52 Rating, Deduct		-191.08		
		For Class 54 Rating, Add		265.79		
		For Class 55 Rating, Add		397.82		
		For Class 56 Rating, Add		528.11		
40 05 19 00-2085	EA	4" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,294.50		291.58
		For Class 52 Rating, Deduct		-203.80		
		For Class 54 Rating, Add		283.21		
		For Class 55 Rating, Add		423.76		
		For Class 56 Rating, Add		562.46		
40 05 19 00-2086	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,416.78		295.97
		For Class 52 Rating, Deduct		-216.52		
		For Class 54 Rating, Add		300.63		
		For Class 55 Rating, Add		449.70		
		For Class 56 Rating, Add		596.80		
40 05 19 00-2087	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,539.06		300.38
		For Class 52 Rating, Deduct		-229.23		
		For Class 54 Rating, Add		318.05		
		For Class 55 Rating, Add		475.64		
		For Class 56 Rating, Add		631.14		
40 05 19 00-2088	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,661.34		304.78
		For Class 52 Rating, Deduct		-241.95		
		For Class 54 Rating, Add		335.47		
		For Class 55 Rating, Add		501.58		
		For Class 56 Rating, Add		665.49		
40 05 19 00-2089	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,783.61		309.19
		For Class 52 Rating, Deduct		-254.67		
		For Class 54 Rating, Add		352.89		
		For Class 55 Rating, Add		527.52		
		For Class 56 Rating, Add		699.83		
40 05 19 00-2090	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,905.89		313.59
		For Class 52 Rating, Deduct		-267.38		
		For Class 54 Rating, Add		370.31		
		For Class 55 Rating, Add		553.46		
		For Class 56 Rating, Add		734.18		
40 05 19 00-2091	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,028.17		318.00
		For Class 52 Rating, Deduct		-280.10		
		For Class 54 Rating, Add		387.73		
		For Class 55 Rating, Add		579.40		
		For Class 56 Rating, Add		768.52		
40 05 19 00-2092	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,150.45		322.40
		For Class 52 Rating, Deduct		-292.82		
		For Class 54 Rating, Add		405.16		
		For Class 55 Rating, Add		605.34		
		For Class 56 Rating, Add		802.86		
40 05 19 00-2093	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,272.73		326.81
		For Class 52 Rating, Deduct		-305.53		
		For Class 54 Rating, Add		422.58		
		For Class 55 Rating, Add		631.28		
		For Class 56 Rating, Add		837.21		
40 05 19 00-2094	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,395.01		331.21
		For Class 52 Rating, Deduct		-318.25		
		For Class 54 Rating, Add		440.00		
		For Class 55 Rating, Add		657.22		
		For Class 56 Rating, Add		871.55		
40 05 19 00-2095	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,517.29		335.62
		For Class 52 Rating, Deduct		-330.97		
		For Class 54 Rating, Add		457.42		
		For Class 55 Rating, Add		683.16		
		For Class 56 Rating, Add		905.90		
40 05 19 00-2096	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,639.57		340.02
		For Class 52 Rating, Deduct		-343.68		
		For Class 54 Rating, Add		474.84		
		For Class 55 Rating, Add		709.10		
		For Class 56 Rating, Add		940.24		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2097	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,761.85	344.43
		For Class 52 Rating, Deduct	-356.40	
		For Class 54 Rating, Add	492.26	
		For Class 55 Rating, Add	735.04	
		For Class 56 Rating, Add	974.58	
40 05 19 00-2098	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,884.13	348.83
		For Class 52 Rating, Deduct	-369.11	
		For Class 54 Rating, Add	509.68	
		For Class 55 Rating, Add	760.98	
		For Class 56 Rating, Add	1,008.93	
40 05 19 00-2099	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,006.41	353.24
		For Class 52 Rating, Deduct	-381.83	
		For Class 54 Rating, Add	527.10	
		For Class 55 Rating, Add	786.92	
		For Class 56 Rating, Add	1,043.27	
40 05 19 00-2100	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,128.68	357.64
		For Class 52 Rating, Deduct	-394.55	
		For Class 54 Rating, Add	544.52	
		For Class 55 Rating, Add	812.86	
		For Class 56 Rating, Add	1,077.61	
40 05 19 00-2101	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,250.97	362.05
		For Class 52 Rating, Deduct	-407.27	
		For Class 54 Rating, Add	561.94	
		For Class 55 Rating, Add	838.80	
		For Class 56 Rating, Add	1,111.96	
40 05 19 00-2102	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,373.24	366.44
		For Class 52 Rating, Deduct	-419.98	
		For Class 54 Rating, Add	579.36	
		For Class 55 Rating, Add	864.74	
		For Class 56 Rating, Add	1,146.30	
40 05 19 00-2103	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,495.52	370.85
		For Class 52 Rating, Deduct	-432.70	
		For Class 54 Rating, Add	596.79	
		For Class 55 Rating, Add	890.68	
		For Class 56 Rating, Add	1,180.65	
40 05 19 00-2104	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,617.79	375.25
		For Class 52 Rating, Deduct	-445.41	
		For Class 54 Rating, Add	614.21	
		For Class 55 Rating, Add	916.62	
		For Class 56 Rating, Add	1,214.99	
40 05 19 00-2105	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,740.08	379.66
		For Class 52 Rating, Deduct	-458.13	
		For Class 54 Rating, Add	631.63	
		For Class 55 Rating, Add	942.56	
		For Class 56 Rating, Add	1,249.33	
40 05 19 00-2106	EA	4" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,862.35	384.06
		For Class 52 Rating, Deduct	-470.85	
		For Class 54 Rating, Add	649.05	
		For Class 55 Rating, Add	968.50	
		For Class 56 Rating, Add	1,283.68	
40 05 19 00-2107	EA	4" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,984.63	388.47
		For Class 52 Rating, Deduct	-483.56	
		For Class 54 Rating, Add	666.47	
		For Class 55 Rating, Add	994.44	
		For Class 56 Rating, Add	1,318.02	
40 05 19 00-2108	EA	4" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,106.91	392.88
		For Class 52 Rating, Deduct	-496.28	
		For Class 54 Rating, Add	683.89	
		For Class 55 Rating, Add	1,020.38	
		For Class 56 Rating, Add	1,352.36	
40 05 19 00-2109	EA	4" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,229.19	397.28
		For Class 52 Rating, Deduct	-509.00	
		For Class 54 Rating, Add	701.31	
		For Class 55 Rating, Add	1,046.32	
		For Class 56 Rating, Add	1,386.71	
40 05 19 00-2110	EA	4" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,351.46	401.69
		For Class 52 Rating, Deduct	-521.71	
		For Class 54 Rating, Add	718.73	
		For Class 55 Rating, Add	1,072.26	
		For Class 56 Rating, Add	1,421.05	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
40 05 19 00-2111	EA	4" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,473.74		406.09
		For Class 52 Rating, Deduct		-534.43		
		For Class 54 Rating, Add		736.15		
		For Class 55 Rating, Add		1,098.20		
		For Class 56 Rating, Add		1,455.40		
40 05 19 00-2112	EA	4" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,596.02		410.50
		For Class 52 Rating, Deduct		-547.15		
		For Class 54 Rating, Add		753.57		
		For Class 55 Rating, Add		1,124.14		
		For Class 56 Rating, Add		1,489.74		
40 05 19 00-2113	EA	4" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,718.30		414.90
		For Class 52 Rating, Deduct		-559.86		
		For Class 54 Rating, Add		770.99		
		For Class 55 Rating, Add		1,150.08		
		For Class 56 Rating, Add		1,524.08		
40 05 19 00-2114	EA	4" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,840.58		419.31
		For Class 52 Rating, Deduct		-572.58		
		For Class 54 Rating, Add		788.41		
		For Class 55 Rating, Add		1,176.02		
		For Class 56 Rating, Add		1,558.43		
40 05 19 00-2115 6" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)						
40 05 19 00-2116	EA	6" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,493.55		317.12
		For Class 52 Rating, Deduct		-111.44		
		For Class 54 Rating, Add		157.73		
		For Class 55 Rating, Add		237.45		
		For Class 56 Rating, Add		316.15		
40 05 19 00-2117	EA	6" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,634.08		321.53
		For Class 52 Rating, Deduct		-126.16		
		For Class 54 Rating, Add		177.88		
		For Class 55 Rating, Add		267.46		
		For Class 56 Rating, Add		355.88		
40 05 19 00-2118	EA	6" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,774.61		325.92
		For Class 52 Rating, Deduct		-140.89		
		For Class 54 Rating, Add		198.04		
		For Class 55 Rating, Add		297.47		
		For Class 56 Rating, Add		395.61		
40 05 19 00-2119	EA	6" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		1,915.14		330.33
		For Class 52 Rating, Deduct		-155.61		
		For Class 54 Rating, Add		218.20		
		For Class 55 Rating, Add		327.48		
		For Class 56 Rating, Add		435.34		
40 05 19 00-2120	EA	6" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,055.67		334.73
		For Class 52 Rating, Deduct		-170.34		
		For Class 54 Rating, Add		238.36		
		For Class 55 Rating, Add		357.49		
		For Class 56 Rating, Add		475.07		
40 05 19 00-2121	EA	6" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,196.21		339.14
		For Class 52 Rating, Deduct		-185.06		
		For Class 54 Rating, Add		258.52		
		For Class 55 Rating, Add		387.50		
		For Class 56 Rating, Add		514.79		
40 05 19 00-2122	EA	6" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,336.75		343.54
		For Class 52 Rating, Deduct		-199.78		
		For Class 54 Rating, Add		278.68		
		For Class 55 Rating, Add		417.51		
		For Class 56 Rating, Add		554.52		
40 05 19 00-2123	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,477.28		347.95
		For Class 52 Rating, Deduct		-214.51		
		For Class 54 Rating, Add		298.84		
		For Class 55 Rating, Add		447.52		
		For Class 56 Rating, Add		594.25		
40 05 19 00-2124	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		2,617.81		352.35
		For Class 52 Rating, Deduct		-229.23		
		For Class 54 Rating, Add		319.00		
		For Class 55 Rating, Add		477.53		
		For Class 56 Rating, Add		633.98		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2125	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,758.34	356.76
		For Class 52 Rating, Deduct	-243.96	
		For Class 54 Rating, Add	339.16	
		For Class 55 Rating, Add	507.54	
		For Class 56 Rating, Add	673.71	
40 05 19 00-2126	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,898.87	361.16
		For Class 52 Rating, Deduct	-258.68	
		For Class 54 Rating, Add	359.31	
		For Class 55 Rating, Add	537.55	
		For Class 56 Rating, Add	713.44	
40 05 19 00-2127	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,039.40	365.57
		For Class 52 Rating, Deduct	-273.41	
		For Class 54 Rating, Add	379.47	
		For Class 55 Rating, Add	567.56	
		For Class 56 Rating, Add	753.17	
40 05 19 00-2128	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,179.94	369.97
		For Class 52 Rating, Deduct	-288.13	
		For Class 54 Rating, Add	399.63	
		For Class 55 Rating, Add	597.57	
		For Class 56 Rating, Add	792.89	
40 05 19 00-2129	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,320.47	374.38
		For Class 52 Rating, Deduct	-302.86	
		For Class 54 Rating, Add	419.79	
		For Class 55 Rating, Add	627.58	
		For Class 56 Rating, Add	832.62	
40 05 19 00-2130	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,461.00	378.78
		For Class 52 Rating, Deduct	-317.58	
		For Class 54 Rating, Add	439.95	
		For Class 55 Rating, Add	657.59	
		For Class 56 Rating, Add	872.35	
40 05 19 00-2131	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,601.52	383.19
		For Class 52 Rating, Deduct	-332.30	
		For Class 54 Rating, Add	460.11	
		For Class 55 Rating, Add	687.60	
		For Class 56 Rating, Add	912.08	
40 05 19 00-2132	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,742.06	387.60
		For Class 52 Rating, Deduct	-347.03	
		For Class 54 Rating, Add	480.27	
		For Class 55 Rating, Add	717.61	
		For Class 56 Rating, Add	951.81	
40 05 19 00-2133	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,882.59	392.00
		For Class 52 Rating, Deduct	-361.75	
		For Class 54 Rating, Add	500.43	
		For Class 55 Rating, Add	747.63	
		For Class 56 Rating, Add	991.54	
40 05 19 00-2134	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,023.12	396.40
		For Class 52 Rating, Deduct	-376.48	
		For Class 54 Rating, Add	520.59	
		For Class 55 Rating, Add	777.64	
		For Class 56 Rating, Add	1,031.27	
40 05 19 00-2135	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,163.66	400.80
		For Class 52 Rating, Deduct	-391.20	
		For Class 54 Rating, Add	540.74	
		For Class 55 Rating, Add	807.65	
		For Class 56 Rating, Add	1,070.99	
40 05 19 00-2136	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,304.19	405.21
		For Class 52 Rating, Deduct	-405.93	
		For Class 54 Rating, Add	560.90	
		For Class 55 Rating, Add	837.66	
		For Class 56 Rating, Add	1,110.72	
40 05 19 00-2137	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,444.72	409.61
		For Class 52 Rating, Deduct	-420.65	
		For Class 54 Rating, Add	581.06	
		For Class 55 Rating, Add	867.67	
		For Class 56 Rating, Add	1,150.45	
40 05 19 00-2138	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,585.24	414.02
		For Class 52 Rating, Deduct	-435.37	
		For Class 54 Rating, Add	601.22	
		For Class 55 Rating, Add	897.68	
		For Class 56 Rating, Add	1,190.18	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2139	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,725.79		418.42
		For Class 52 Rating, Deduct		-450.10		
		For Class 54 Rating, Add		621.38		
		For Class 55 Rating, Add		927.69		
		For Class 56 Rating, Add		1,229.91		
40 05 19 00-2140	EA	6" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,866.32		422.83
		For Class 52 Rating, Deduct		-464.82		
		For Class 54 Rating, Add		641.54		
		For Class 55 Rating, Add		957.70		
		For Class 56 Rating, Add		1,269.64		
40 05 19 00-2141	EA	6" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,006.85		427.23
		For Class 52 Rating, Deduct		-479.55		
		For Class 54 Rating, Add		661.70		
		For Class 55 Rating, Add		987.71		
		For Class 56 Rating, Add		1,309.36		
40 05 19 00-2142	EA	6" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,147.39		431.64
		For Class 52 Rating, Deduct		-494.27		
		For Class 54 Rating, Add		681.86		
		For Class 55 Rating, Add		1,017.72		
		For Class 56 Rating, Add		1,349.09		
40 05 19 00-2143	EA	6" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,287.92		436.04
		For Class 52 Rating, Deduct		-509.00		
		For Class 54 Rating, Add		702.02		
		For Class 55 Rating, Add		1,047.73		
		For Class 56 Rating, Add		1,388.82		
40 05 19 00-2144	EA	6" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,428.45		440.45
		For Class 52 Rating, Deduct		-523.72		
		For Class 54 Rating, Add		722.17		
		For Class 55 Rating, Add		1,077.74		
		For Class 56 Rating, Add		1,428.55		
40 05 19 00-2145	EA	6" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,568.97		444.85
		For Class 52 Rating, Deduct		-538.45		
		For Class 54 Rating, Add		742.33		
		For Class 55 Rating, Add		1,107.75		
		For Class 56 Rating, Add		1,468.28		
40 05 19 00-2146	EA	6" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,709.51		449.26
		For Class 52 Rating, Deduct		-553.17		
		For Class 54 Rating, Add		762.49		
		For Class 55 Rating, Add		1,137.76		
		For Class 56 Rating, Add		1,508.01		
40 05 19 00-2147	EA	6" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,850.04		453.66
		For Class 52 Rating, Deduct		-567.89		
		For Class 54 Rating, Add		782.65		
		For Class 55 Rating, Add		1,167.77		
		For Class 56 Rating, Add		1,547.74		
40 05 19 00-2148	EA	6" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,990.57		458.07
		For Class 52 Rating, Deduct		-582.62		
		For Class 54 Rating, Add		802.81		
		For Class 55 Rating, Add		1,197.79		
		For Class 56 Rating, Add		1,587.46		
40 05 19 00-2149	EA	6" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,131.11		462.47
		For Class 52 Rating, Deduct		-597.34		
		For Class 54 Rating, Add		822.97		
		For Class 55 Rating, Add		1,227.80		
		For Class 56 Rating, Add		1,627.19		
40 05 19 00-2150	EA	6" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,271.64		466.87
		For Class 52 Rating, Deduct		-612.07		
		For Class 54 Rating, Add		843.13		
		For Class 55 Rating, Add		1,257.81		
		For Class 56 Rating, Add		1,666.92		
40 05 19 00-2151	EA	6" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,412.17		471.27
		For Class 52 Rating, Deduct		-626.79		
		For Class 54 Rating, Add		863.29		
		For Class 55 Rating, Add		1,287.82		
		For Class 56 Rating, Add		1,706.65		
40 05 19 00-2152	EA	6" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,552.69		475.68
		For Class 52 Rating, Deduct		-641.52		
		For Class 54 Rating, Add		883.44		
		For Class 55 Rating, Add		1,317.83		
		For Class 56 Rating, Add		1,746.38		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2153	EA		6" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,693.23	480.08
			For Class 52 Rating, Deduct	-656.24	
			For Class 54 Rating, Add	903.60	
			For Class 55 Rating, Add	1,347.84	
			For Class 56 Rating, Add	1,786.11	
40 05 19 00-2154	EA		6" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,833.76	484.49
			For Class 52 Rating, Deduct	-670.97	
			For Class 54 Rating, Add	923.76	
			For Class 55 Rating, Add	1,377.85	
			For Class 56 Rating, Add	1,825.84	
40 05 19 00-2155			8" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2156	EA		8" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,077.27	405.21
			For Class 52 Rating, Deduct	-160.97	
			For Class 54 Rating, Add	226.87	
			For Class 55 Rating, Add	341.06	
			For Class 56 Rating, Add	453.78	
40 05 19 00-2157	EA		8" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,257.35	409.61
			For Class 52 Rating, Deduct	-180.04	
			For Class 54 Rating, Add	252.96	
			For Class 55 Rating, Add	379.89	
			For Class 56 Rating, Add	505.18	
40 05 19 00-2158	EA		8" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,437.42	414.02
			For Class 52 Rating, Deduct	-199.11	
			For Class 54 Rating, Add	279.05	
			For Class 55 Rating, Add	418.71	
			For Class 56 Rating, Add	556.57	
40 05 19 00-2159	EA		8" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,617.52	418.42
			For Class 52 Rating, Deduct	-218.19	
			For Class 54 Rating, Add	305.14	
			For Class 55 Rating, Add	457.54	
			For Class 56 Rating, Add	607.97	
40 05 19 00-2160	EA		8" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,797.60	422.83
			For Class 52 Rating, Deduct	-237.26	
			For Class 54 Rating, Add	331.23	
			For Class 55 Rating, Add	496.38	
			For Class 56 Rating, Add	659.36	
40 05 19 00-2161	EA		8" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,977.68	427.23
			For Class 52 Rating, Deduct	-256.34	
			For Class 54 Rating, Add	357.32	
			For Class 55 Rating, Add	535.21	
			For Class 56 Rating, Add	710.76	
40 05 19 00-2162	EA		8" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,157.76	431.64
			For Class 52 Rating, Deduct	-275.41	
			For Class 54 Rating, Add	383.41	
			For Class 55 Rating, Add	574.03	
			For Class 56 Rating, Add	762.15	
40 05 19 00-2163	EA		8" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,337.84	436.04
			For Class 52 Rating, Deduct	-294.49	
			For Class 54 Rating, Add	409.50	
			For Class 55 Rating, Add	612.86	
			For Class 56 Rating, Add	813.55	
40 05 19 00-2164	EA		8" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,517.92	440.45
			For Class 52 Rating, Deduct	-313.56	
			For Class 54 Rating, Add	435.60	
			For Class 55 Rating, Add	651.70	
			For Class 56 Rating, Add	864.95	
40 05 19 00-2165	EA		8" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,698.00	444.85
			For Class 52 Rating, Deduct	-332.64	
			For Class 54 Rating, Add	461.69	
			For Class 55 Rating, Add	690.53	
			For Class 56 Rating, Add	916.34	
40 05 19 00-2166	EA		8" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,878.08	449.26
			For Class 52 Rating, Deduct	-351.71	
			For Class 54 Rating, Add	487.78	
			For Class 55 Rating, Add	729.35	
			For Class 56 Rating, Add	967.73	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2167	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,058.16		453.66
		For Class 52 Rating, Deduct	-370.79		
		For Class 54 Rating, Add	513.87		
		For Class 55 Rating, Add	768.19		
		For Class 56 Rating, Add	1,019.13		
40 05 19 00-2168	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,238.24		458.07
		For Class 52 Rating, Deduct	-389.86		
		For Class 54 Rating, Add	539.96		
		For Class 55 Rating, Add	807.02		
		For Class 56 Rating, Add	1,070.53		
40 05 19 00-2169	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,418.33		462.47
		For Class 52 Rating, Deduct	-408.94		
		For Class 54 Rating, Add	566.05		
		For Class 55 Rating, Add	845.85		
		For Class 56 Rating, Add	1,121.92		
40 05 19 00-2170	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,598.40		466.87
		For Class 52 Rating, Deduct	-428.01		
		For Class 54 Rating, Add	592.14		
		For Class 55 Rating, Add	884.67		
		For Class 56 Rating, Add	1,173.32		
40 05 19 00-2171	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,778.48		471.27
		For Class 52 Rating, Deduct	-447.09		
		For Class 54 Rating, Add	618.23		
		For Class 55 Rating, Add	923.51		
		For Class 56 Rating, Add	1,224.71		
40 05 19 00-2172	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,958.56		475.68
		For Class 52 Rating, Deduct	-466.16		
		For Class 54 Rating, Add	644.32		
		For Class 55 Rating, Add	962.34		
		For Class 56 Rating, Add	1,276.11		
40 05 19 00-2173	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,138.65		480.08
		For Class 52 Rating, Deduct	-485.24		
		For Class 54 Rating, Add	670.42		
		For Class 55 Rating, Add	1,001.17		
		For Class 56 Rating, Add	1,327.51		
40 05 19 00-2174	EA	8" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,318.73		484.49
		For Class 52 Rating, Deduct	-504.31		
		For Class 54 Rating, Add	696.51		
		For Class 55 Rating, Add	1,040.00		
		For Class 56 Rating, Add	1,378.90		
40 05 19 00-2175	EA	8" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,498.80		488.89
		For Class 52 Rating, Deduct	-523.39		
		For Class 54 Rating, Add	722.60		
		For Class 55 Rating, Add	1,078.83		
		For Class 56 Rating, Add	1,430.29		
40 05 19 00-2176	EA	8" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,678.90		493.30
		For Class 52 Rating, Deduct	-542.46		
		For Class 54 Rating, Add	748.69		
		For Class 55 Rating, Add	1,117.66		
		For Class 56 Rating, Add	1,481.69		
40 05 19 00-2177	EA	8" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,858.98		497.70
		For Class 52 Rating, Deduct	-561.54		
		For Class 54 Rating, Add	774.78		
		For Class 55 Rating, Add	1,156.49		
		For Class 56 Rating, Add	1,533.09		
40 05 19 00-2178	EA	8" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,039.06		502.11
		For Class 52 Rating, Deduct	-580.61		
		For Class 54 Rating, Add	800.87		
		For Class 55 Rating, Add	1,195.32		
		For Class 56 Rating, Add	1,584.48		
40 05 19 00-2179	EA	8" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,219.13		506.51
		For Class 52 Rating, Deduct	-599.69		
		For Class 54 Rating, Add	826.96		
		For Class 55 Rating, Add	1,234.15		
		For Class 56 Rating, Add	1,635.88		
40 05 19 00-2180	EA	8" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,399.22		510.92
		For Class 52 Rating, Deduct	-618.76		
		For Class 54 Rating, Add	853.05		
		For Class 55 Rating, Add	1,272.98		
		For Class 56 Rating, Add	1,687.27		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2181	EA	8" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,579.30	515.32
		For Class 52 Rating, Deduct	-637.84	
		For Class 54 Rating, Add	879.15	
		For Class 55 Rating, Add	1,311.81	
		For Class 56 Rating, Add	1,738.67	
40 05 19 00-2182	EA	8" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,759.38	519.73
		For Class 52 Rating, Deduct	-656.91	
		For Class 54 Rating, Add	905.24	
		For Class 55 Rating, Add	1,350.64	
		For Class 56 Rating, Add	1,790.06	
40 05 19 00-2183	EA	8" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,939.45	524.13
		For Class 52 Rating, Deduct	-675.99	
		For Class 54 Rating, Add	931.33	
		For Class 55 Rating, Add	1,389.47	
		For Class 56 Rating, Add	1,841.46	
40 05 19 00-2184	EA	8" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,119.54	528.54
		For Class 52 Rating, Deduct	-695.06	
		For Class 54 Rating, Add	957.42	
		For Class 55 Rating, Add	1,428.30	
		For Class 56 Rating, Add	1,892.85	
40 05 19 00-2185	EA	8" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,299.62	532.94
		For Class 52 Rating, Deduct	-714.14	
		For Class 54 Rating, Add	983.51	
		For Class 55 Rating, Add	1,467.13	
		For Class 56 Rating, Add	1,944.25	
40 05 19 00-2186	EA	8" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,479.70	537.34
		For Class 52 Rating, Deduct	-733.21	
		For Class 54 Rating, Add	1,009.60	
		For Class 55 Rating, Add	1,505.96	
		For Class 56 Rating, Add	1,995.65	
40 05 19 00-2187	EA	8" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,659.79	541.74
		For Class 52 Rating, Deduct	-752.29	
		For Class 54 Rating, Add	1,035.69	
		For Class 55 Rating, Add	1,544.79	
		For Class 56 Rating, Add	2,047.04	
40 05 19 00-2188	EA	8" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,839.86	546.15
		For Class 52 Rating, Deduct	-771.36	
		For Class 54 Rating, Add	1,061.78	
		For Class 55 Rating, Add	1,583.62	
		For Class 56 Rating, Add	2,098.44	
40 05 19 00-2189	EA	8" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,019.94	550.55
		For Class 52 Rating, Deduct	-790.43	
		For Class 54 Rating, Add	1,087.88	
		For Class 55 Rating, Add	1,622.45	
		For Class 56 Rating, Add	2,149.83	
40 05 19 00-2190	EA	8" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,200.02	554.96
		For Class 52 Rating, Deduct	-809.51	
		For Class 54 Rating, Add	1,113.97	
		For Class 55 Rating, Add	1,661.28	
		For Class 56 Rating, Add	2,201.23	
40 05 19 00-2191	EA	8" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,380.11	559.36
		For Class 52 Rating, Deduct	-828.58	
		For Class 54 Rating, Add	1,140.06	
		For Class 55 Rating, Add	1,700.11	
		For Class 56 Rating, Add	2,252.62	
40 05 19 00-2192	EA	8" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,560.18	563.77
		For Class 52 Rating, Deduct	-847.66	
		For Class 54 Rating, Add	1,166.15	
		For Class 55 Rating, Add	1,738.94	
		For Class 56 Rating, Add	2,304.02	
40 05 19 00-2193	EA	8" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,740.27	568.17
		For Class 52 Rating, Deduct	-866.73	
		For Class 54 Rating, Add	1,192.24	
		For Class 55 Rating, Add	1,777.77	
		For Class 56 Rating, Add	2,355.41	
40 05 19 00-2194	EA	8" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,920.36	572.58
		For Class 52 Rating, Deduct	-885.81	
		For Class 54 Rating, Add	1,218.33	
		For Class 55 Rating, Add	1,816.60	
		For Class 56 Rating, Add	2,406.81	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2195	10" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2196	EA 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,621.45		493.30
	For Class 52 Rating, Deduct	-206.14		
	For Class 54 Rating, Add	290.07		
	For Class 55 Rating, Add	435.84		
	For Class 56 Rating, Add	579.74		
40 05 19 00-2197	EA 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,853.25		497.70
	For Class 52 Rating, Deduct	-230.91		
	For Class 54 Rating, Add	323.92		
	For Class 55 Rating, Add	486.21		
	For Class 56 Rating, Add	646.40		
40 05 19 00-2198	EA 10" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,085.04		502.11
	For Class 52 Rating, Deduct	-255.67		
	For Class 54 Rating, Add	357.77		
	For Class 55 Rating, Add	536.57		
	For Class 56 Rating, Add	713.05		
40 05 19 00-2199	EA 10" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,316.84		506.51
	For Class 52 Rating, Deduct	-280.43		
	For Class 54 Rating, Add	391.62		
	For Class 55 Rating, Add	586.93		
	For Class 56 Rating, Add	779.70		
40 05 19 00-2200	EA 10" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,548.64		510.92
	For Class 52 Rating, Deduct	-305.20		
	For Class 54 Rating, Add	425.47		
	For Class 55 Rating, Add	637.30		
	For Class 56 Rating, Add	846.35		
40 05 19 00-2201	EA 10" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,780.44		515.32
	For Class 52 Rating, Deduct	-329.96		
	For Class 54 Rating, Add	459.32		
	For Class 55 Rating, Add	687.66		
	For Class 56 Rating, Add	913.01		
40 05 19 00-2202	EA 10" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,012.23		519.73
	For Class 52 Rating, Deduct	-354.72		
	For Class 54 Rating, Add	493.17		
	For Class 55 Rating, Add	738.02		
	For Class 56 Rating, Add	979.66		
40 05 19 00-2203	EA 10" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,244.03		524.13
	For Class 52 Rating, Deduct	-379.49		
	For Class 54 Rating, Add	527.01		
	For Class 55 Rating, Add	788.39		
	For Class 56 Rating, Add	1,046.31		
40 05 19 00-2204	EA 10" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,475.84		528.54
	For Class 52 Rating, Deduct	-404.25		
	For Class 54 Rating, Add	560.86		
	For Class 55 Rating, Add	838.75		
	For Class 56 Rating, Add	1,112.96		
40 05 19 00-2205	EA 10" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,707.63		532.94
	For Class 52 Rating, Deduct	-429.02		
	For Class 54 Rating, Add	594.71		
	For Class 55 Rating, Add	889.11		
	For Class 56 Rating, Add	1,179.61		
40 05 19 00-2206	EA 10" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,939.43		537.34
	For Class 52 Rating, Deduct	-453.78		
	For Class 54 Rating, Add	628.56		
	For Class 55 Rating, Add	939.48		
	For Class 56 Rating, Add	1,246.27		
40 05 19 00-2207	EA 10" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,171.23		541.74
	For Class 52 Rating, Deduct	-478.54		
	For Class 54 Rating, Add	662.41		
	For Class 55 Rating, Add	989.84		
	For Class 56 Rating, Add	1,312.92		
40 05 19 00-2208	EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,403.03		546.15
	For Class 52 Rating, Deduct	-503.31		
	For Class 54 Rating, Add	696.26		
	For Class 55 Rating, Add	1,040.20		
	For Class 56 Rating, Add	1,379.57		
40 05 19 00-2209	EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,634.82		550.55
	For Class 52 Rating, Deduct	-528.07		
	For Class 54 Rating, Add	730.11		
	For Class 55 Rating, Add	1,090.57		
	For Class 56 Rating, Add	1,446.22		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2210	EA	10" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,866.62	554.96
		For Class 52 Rating, Deduct	-552.84	
		For Class 54 Rating, Add	763.96	
		For Class 55 Rating, Add	1,140.93	
		For Class 56 Rating, Add	1,512.88	
40 05 19 00-2211	EA	10" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,098.43	559.36
		For Class 52 Rating, Deduct	-577.60	
		For Class 54 Rating, Add	797.81	
		For Class 55 Rating, Add	1,191.29	
		For Class 56 Rating, Add	1,579.53	
40 05 19 00-2212	EA	10" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,330.22	563.77
		For Class 52 Rating, Deduct	-602.36	
		For Class 54 Rating, Add	831.65	
		For Class 55 Rating, Add	1,241.66	
		For Class 56 Rating, Add	1,646.18	
40 05 19 00-2213	EA	10" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,562.03	568.17
		For Class 52 Rating, Deduct	-627.13	
		For Class 54 Rating, Add	865.50	
		For Class 55 Rating, Add	1,292.02	
		For Class 56 Rating, Add	1,712.83	
40 05 19 00-2214	EA	10" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,793.83	572.58
		For Class 52 Rating, Deduct	-651.89	
		For Class 54 Rating, Add	899.35	
		For Class 55 Rating, Add	1,342.38	
		For Class 56 Rating, Add	1,779.48	
40 05 19 00-2215	EA	10" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,025.63	576.98
		For Class 52 Rating, Deduct	-676.66	
		For Class 54 Rating, Add	933.20	
		For Class 55 Rating, Add	1,392.75	
		For Class 56 Rating, Add	1,846.14	
40 05 19 00-2216	EA	10" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,257.43	581.39
		For Class 52 Rating, Deduct	-701.42	
		For Class 54 Rating, Add	967.05	
		For Class 55 Rating, Add	1,443.11	
		For Class 56 Rating, Add	1,912.79	
40 05 19 00-2217	EA	10" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,489.22	585.79
		For Class 52 Rating, Deduct	-726.18	
		For Class 54 Rating, Add	1,000.90	
		For Class 55 Rating, Add	1,493.47	
		For Class 56 Rating, Add	1,979.44	
40 05 19 00-2218	EA	10" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,721.03	590.20
		For Class 52 Rating, Deduct	-750.95	
		For Class 54 Rating, Add	1,034.75	
		For Class 55 Rating, Add	1,543.84	
		For Class 56 Rating, Add	2,046.10	
40 05 19 00-2219	EA	10" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,952.82	594.60
		For Class 52 Rating, Deduct	-775.71	
		For Class 54 Rating, Add	1,068.60	
		For Class 55 Rating, Add	1,594.20	
		For Class 56 Rating, Add	2,112.75	
40 05 19 00-2220	EA	10" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,184.62	599.01
		For Class 52 Rating, Deduct	-800.47	
		For Class 54 Rating, Add	1,102.45	
		For Class 55 Rating, Add	1,644.56	
		For Class 56 Rating, Add	2,179.40	
40 05 19 00-2221	EA	10" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,416.42	603.41
		For Class 52 Rating, Deduct	-825.24	
		For Class 54 Rating, Add	1,136.30	
		For Class 55 Rating, Add	1,694.92	
		For Class 56 Rating, Add	2,246.05	
40 05 19 00-2222	EA	10" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,648.22	607.82
		For Class 52 Rating, Deduct	-850.00	
		For Class 54 Rating, Add	1,170.14	
		For Class 55 Rating, Add	1,745.29	
		For Class 56 Rating, Add	2,312.70	
40 05 19 00-2223	EA	10" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,880.02	612.21
		For Class 52 Rating, Deduct	-874.77	
		For Class 54 Rating, Add	1,203.99	
		For Class 55 Rating, Add	1,795.65	
		For Class 56 Rating, Add	2,379.36	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-2224	EA	10" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,111.81	616.62
		For Class 52 Rating, Deduct	-899.53	
		For Class 54 Rating, Add	1,237.84	
		For Class 55 Rating, Add	1,846.01	
		For Class 56 Rating, Add	2,446.01	
40 05 19 00-2225	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,343.62	621.02
		For Class 52 Rating, Deduct	-924.29	
		For Class 54 Rating, Add	1,271.69	
		For Class 55 Rating, Add	1,896.38	
		For Class 56 Rating, Add	2,512.66	
40 05 19 00-2226	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,575.41	625.43
		For Class 52 Rating, Deduct	-949.06	
		For Class 54 Rating, Add	1,305.54	
		For Class 55 Rating, Add	1,946.74	
		For Class 56 Rating, Add	2,579.31	
40 05 19 00-2227	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,807.21	629.83
		For Class 52 Rating, Deduct	-973.82	
		For Class 54 Rating, Add	1,339.39	
		For Class 55 Rating, Add	1,997.10	
		For Class 56 Rating, Add	2,645.97	
40 05 19 00-2228	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,039.01	634.24
		For Class 52 Rating, Deduct	-998.58	
		For Class 54 Rating, Add	1,373.24	
		For Class 55 Rating, Add	2,047.47	
		For Class 56 Rating, Add	2,712.62	
40 05 19 00-2229	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,270.81	638.64
		For Class 52 Rating, Deduct	-1,023.35	
		For Class 54 Rating, Add	1,407.09	
		For Class 55 Rating, Add	2,097.83	
		For Class 56 Rating, Add	2,779.27	
40 05 19 00-2230	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,502.62	643.05
		For Class 52 Rating, Deduct	-1,048.11	
		For Class 54 Rating, Add	1,440.94	
		For Class 55 Rating, Add	2,148.19	
		For Class 56 Rating, Add	2,845.92	
40 05 19 00-2231	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,734.41	647.45
		For Class 52 Rating, Deduct	-1,072.88	
		For Class 54 Rating, Add	1,474.78	
		For Class 55 Rating, Add	2,198.56	
		For Class 56 Rating, Add	2,912.57	
40 05 19 00-2232	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,966.22	651.86
		For Class 52 Rating, Deduct	-1,097.64	
		For Class 54 Rating, Add	1,508.63	
		For Class 55 Rating, Add	2,248.92	
		For Class 56 Rating, Add	2,979.23	
40 05 19 00-2233	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,198.01	656.26
		For Class 52 Rating, Deduct	-1,122.40	
		For Class 54 Rating, Add	1,542.48	
		For Class 55 Rating, Add	2,299.28	
		For Class 56 Rating, Add	3,045.88	
40 05 19 00-2234	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,429.81	660.67
		For Class 52 Rating, Deduct	-1,147.17	
		For Class 54 Rating, Add	1,576.33	
		For Class 55 Rating, Add	2,349.65	
		For Class 56 Rating, Add	3,112.53	

40 05 19 00-2235 12" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)

40 05 19 00-2236	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,428.91	616.62
		For Class 52 Rating, Deduct	-274.41	
		For Class 54 Rating, Add	385.41	
		For Class 55 Rating, Add	578.73	
		For Class 56 Rating, Add	769.55	
40 05 19 00-2237	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,715.47	621.02
		For Class 52 Rating, Deduct	-305.20	
		For Class 54 Rating, Add	427.47	
		For Class 55 Rating, Add	641.30	
		For Class 56 Rating, Add	852.36	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2238	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,002.03	625.43
		For Class 52 Rating, Deduct	-335.99	
		For Class 54 Rating, Add	469.53	
		For Class 55 Rating, Add	703.88	
		For Class 56 Rating, Add	935.17	
40 05 19 00-2239	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,288.59	629.83
		For Class 52 Rating, Deduct	-366.77	
		For Class 54 Rating, Add	511.60	
		For Class 55 Rating, Add	766.45	
		For Class 56 Rating, Add	1,017.97	
40 05 19 00-2240	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,575.15	634.24
		For Class 52 Rating, Deduct	-397.56	
		For Class 54 Rating, Add	553.66	
		For Class 55 Rating, Add	829.03	
		For Class 56 Rating, Add	1,100.78	
40 05 19 00-2241	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,861.71	638.64
		For Class 52 Rating, Deduct	-428.35	
		For Class 54 Rating, Add	595.72	
		For Class 55 Rating, Add	891.60	
		For Class 56 Rating, Add	1,183.59	
40 05 19 00-2242	EA	12" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,148.27	643.05
		For Class 52 Rating, Deduct	-459.13	
		For Class 54 Rating, Add	637.78	
		For Class 55 Rating, Add	954.17	
		For Class 56 Rating, Add	1,266.39	
40 05 19 00-2243	EA	12" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,434.83	647.45
		For Class 52 Rating, Deduct	-489.92	
		For Class 54 Rating, Add	679.85	
		For Class 55 Rating, Add	1,016.75	
		For Class 56 Rating, Add	1,349.20	
40 05 19 00-2244	EA	12" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,721.40	651.86
		For Class 52 Rating, Deduct	-520.71	
		For Class 54 Rating, Add	721.91	
		For Class 55 Rating, Add	1,079.33	
		For Class 56 Rating, Add	1,432.01	
40 05 19 00-2245	EA	12" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,007.95	656.26
		For Class 52 Rating, Deduct	-551.50	
		For Class 54 Rating, Add	763.97	
		For Class 55 Rating, Add	1,141.90	
		For Class 56 Rating, Add	1,514.81	
40 05 19 00-2246	EA	12" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,294.51	660.67
		For Class 52 Rating, Deduct	-582.29	
		For Class 54 Rating, Add	806.04	
		For Class 55 Rating, Add	1,204.47	
		For Class 56 Rating, Add	1,597.62	
40 05 19 00-2247	EA	12" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,581.06	665.07
		For Class 52 Rating, Deduct	-613.07	
		For Class 54 Rating, Add	848.10	
		For Class 55 Rating, Add	1,267.05	
		For Class 56 Rating, Add	1,680.42	
40 05 19 00-2248	EA	12" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,867.63	669.48
		For Class 52 Rating, Deduct	-643.86	
		For Class 54 Rating, Add	890.16	
		For Class 55 Rating, Add	1,329.62	
		For Class 56 Rating, Add	1,763.23	
40 05 19 00-2249	EA	12" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,154.19	673.88
		For Class 52 Rating, Deduct	-674.65	
		For Class 54 Rating, Add	932.23	
		For Class 55 Rating, Add	1,392.20	
		For Class 56 Rating, Add	1,846.04	
40 05 19 00-2250	EA	12" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,440.74	678.29
		For Class 52 Rating, Deduct	-705.43	
		For Class 54 Rating, Add	974.29	
		For Class 55 Rating, Add	1,454.77	
		For Class 56 Rating, Add	1,928.84	
40 05 19 00-2251	EA	12" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,727.31	682.68
		For Class 52 Rating, Deduct	-736.22	
		For Class 54 Rating, Add	1,016.35	
		For Class 55 Rating, Add	1,517.35	
		For Class 56 Rating, Add	2,011.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2252	EA	12" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,013.86	687.09
		For Class 52 Rating, Deduct	-767.01	
		For Class 54 Rating, Add	1,058.41	
		For Class 55 Rating, Add	1,579.92	
		For Class 56 Rating, Add	2,094.46	
40 05 19 00-2253	EA	12" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,300.42	691.49
		For Class 52 Rating, Deduct	-797.80	
		For Class 54 Rating, Add	1,100.48	
		For Class 55 Rating, Add	1,642.50	
		For Class 56 Rating, Add	2,177.26	
40 05 19 00-2254	EA	12" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,586.98	695.90
		For Class 52 Rating, Deduct	-828.58	
		For Class 54 Rating, Add	1,142.54	
		For Class 55 Rating, Add	1,705.07	
		For Class 56 Rating, Add	2,260.07	
40 05 19 00-2255	EA	12" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,873.54	700.30
		For Class 52 Rating, Deduct	-859.37	
		For Class 54 Rating, Add	1,184.60	
		For Class 55 Rating, Add	1,767.65	
		For Class 56 Rating, Add	2,342.88	
40 05 19 00-2256	EA	12" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,160.10	704.71
		For Class 52 Rating, Deduct	-890.16	
		For Class 54 Rating, Add	1,226.67	
		For Class 55 Rating, Add	1,830.22	
		For Class 56 Rating, Add	2,425.68	
40 05 19 00-2257	EA	12" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,446.65	709.11
		For Class 52 Rating, Deduct	-920.95	
		For Class 54 Rating, Add	1,268.73	
		For Class 55 Rating, Add	1,892.80	
		For Class 56 Rating, Add	2,508.49	
40 05 19 00-2258	EA	12" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,733.22	713.52
		For Class 52 Rating, Deduct	-951.73	
		For Class 54 Rating, Add	1,310.79	
		For Class 55 Rating, Add	1,955.37	
		For Class 56 Rating, Add	2,591.30	
40 05 19 00-2259	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,019.79	717.92
		For Class 52 Rating, Deduct	-982.52	
		For Class 54 Rating, Add	1,352.86	
		For Class 55 Rating, Add	2,017.95	
		For Class 56 Rating, Add	2,674.11	
40 05 19 00-2260	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,303.30	722.33
		For Class 52 Rating, Deduct	-1,012.97	
		For Class 54 Rating, Add	1,394.46	
		For Class 55 Rating, Add	2,079.84	
		For Class 56 Rating, Add	2,756.01	
40 05 19 00-2261	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,592.90	726.73
		For Class 52 Rating, Deduct	-1,044.10	
		For Class 54 Rating, Add	1,436.98	
		For Class 55 Rating, Add	2,143.10	
		For Class 56 Rating, Add	2,839.72	
40 05 19 00-2262	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,879.46	731.14
		For Class 52 Rating, Deduct	-1,074.88	
		For Class 54 Rating, Add	1,479.04	
		For Class 55 Rating, Add	2,205.67	
		For Class 56 Rating, Add	2,922.52	
40 05 19 00-2263	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,166.02	735.54
		For Class 52 Rating, Deduct	-1,105.67	
		For Class 54 Rating, Add	1,521.11	
		For Class 55 Rating, Add	2,268.24	
		For Class 56 Rating, Add	3,005.33	
40 05 19 00-2264	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,452.58	739.95
		For Class 52 Rating, Deduct	-1,136.46	
		For Class 54 Rating, Add	1,563.17	
		For Class 55 Rating, Add	2,330.82	
		For Class 56 Rating, Add	3,088.14	
40 05 19 00-2265	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,739.14	744.35
		For Class 52 Rating, Deduct	-1,167.25	
		For Class 54 Rating, Add	1,605.23	
		For Class 55 Rating, Add	2,393.39	
		For Class 56 Rating, Add	3,170.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2266	EA	12"	Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,025.70	748.76
			For Class 52 Rating, Deduct	-1,198.03	
			For Class 54 Rating, Add	1,647.30	
			For Class 55 Rating, Add	2,455.97	
			For Class 56 Rating, Add	3,253.75	
40 05 19 00-2267	EA	12"	Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,312.26	753.15
			For Class 52 Rating, Deduct	-1,228.82	
			For Class 54 Rating, Add	1,689.36	
			For Class 55 Rating, Add	2,518.55	
			For Class 56 Rating, Add	3,336.56	
40 05 19 00-2268	EA	12"	Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,598.81	757.56
			For Class 52 Rating, Deduct	-1,259.61	
			For Class 54 Rating, Add	1,731.42	
			For Class 55 Rating, Add	2,581.12	
			For Class 56 Rating, Add	3,419.36	
40 05 19 00-2269	EA	12"	Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,885.38	761.96
			For Class 52 Rating, Deduct	-1,290.40	
			For Class 54 Rating, Add	1,773.49	
			For Class 55 Rating, Add	2,643.69	
			For Class 56 Rating, Add	3,502.17	
40 05 19 00-2270	EA	12"	Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,171.93	766.37
			For Class 52 Rating, Deduct	-1,321.18	
			For Class 54 Rating, Add	1,815.55	
			For Class 55 Rating, Add	2,706.27	
			For Class 56 Rating, Add	3,584.98	
40 05 19 00-2271	EA	12"	Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,458.49	770.78
			For Class 52 Rating, Deduct	-1,351.97	
			For Class 54 Rating, Add	1,857.61	
			For Class 55 Rating, Add	2,768.84	
			For Class 56 Rating, Add	3,667.78	
40 05 19 00-2272	EA	12"	Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,745.06	775.18
			For Class 52 Rating, Deduct	-1,382.76	
			For Class 54 Rating, Add	1,899.68	
			For Class 55 Rating, Add	2,831.42	
			For Class 56 Rating, Add	3,750.59	
40 05 19 00-2273	EA	12"	Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,031.61	779.59
			For Class 52 Rating, Deduct	-1,413.55	
			For Class 54 Rating, Add	1,941.74	
			For Class 55 Rating, Add	2,893.99	
			For Class 56 Rating, Add	3,833.40	
40 05 19 00-2274	EA	12"	Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,318.17	783.99
			For Class 52 Rating, Deduct	-1,444.33	
			For Class 54 Rating, Add	1,983.80	
			For Class 55 Rating, Add	2,956.57	
			For Class 56 Rating, Add	3,916.20	
40 05 19 00-2275			14" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2276	EA	14"	Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,592.33	739.95
			For Class 52 Rating, Deduct	-381.83	
			For Class 54 Rating, Add	534.13	
			For Class 55 Rating, Add	800.98	
			For Class 56 Rating, Add	1,064.36	
40 05 19 00-2277	EA	14"	Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,939.74	744.35
			For Class 52 Rating, Deduct	-419.31	
			For Class 54 Rating, Add	585.32	
			For Class 55 Rating, Add	877.13	
			For Class 56 Rating, Add	1,165.12	
40 05 19 00-2278	EA	14"	Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,287.14	748.76
			For Class 52 Rating, Deduct	-456.79	
			For Class 54 Rating, Add	636.51	
			For Class 55 Rating, Add	953.27	
			For Class 56 Rating, Add	1,265.88	
40 05 19 00-2279	EA	14"	Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,634.54	753.15
			For Class 52 Rating, Deduct	-494.27	
			For Class 54 Rating, Add	687.70	
			For Class 55 Rating, Add	1,029.41	
			For Class 56 Rating, Add	1,366.63	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2280	EA	14" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,981.94		757.56
		For Class 52 Rating, Deduct		-531.75		
		For Class 54 Rating, Add		738.89		
		For Class 55 Rating, Add		1,105.56		
		For Class 56 Rating, Add		1,467.39		
40 05 19 00-2281	EA	14" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,329.35		761.96
		For Class 52 Rating, Deduct		-569.23		
		For Class 54 Rating, Add		790.08		
		For Class 55 Rating, Add		1,181.70		
		For Class 56 Rating, Add		1,568.14		
40 05 19 00-2282	EA	14" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,676.75		766.37
		For Class 52 Rating, Deduct		-606.71		
		For Class 54 Rating, Add		841.27		
		For Class 55 Rating, Add		1,257.84		
		For Class 56 Rating, Add		1,668.90		
40 05 19 00-2283	EA	14" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,024.15		770.78
		For Class 52 Rating, Deduct		-644.19		
		For Class 54 Rating, Add		892.46		
		For Class 55 Rating, Add		1,333.99		
		For Class 56 Rating, Add		1,769.65		
40 05 19 00-2284	EA	14" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,371.56		775.18
		For Class 52 Rating, Deduct		-681.67		
		For Class 54 Rating, Add		943.65		
		For Class 55 Rating, Add		1,410.13		
		For Class 56 Rating, Add		1,870.41		
40 05 19 00-2285	EA	14" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,718.96		779.59
		For Class 52 Rating, Deduct		-719.15		
		For Class 54 Rating, Add		994.84		
		For Class 55 Rating, Add		1,486.27		
		For Class 56 Rating, Add		1,971.16		
40 05 19 00-2286	EA	14" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,066.36		783.99
		For Class 52 Rating, Deduct		-756.64		
		For Class 54 Rating, Add		1,046.03		
		For Class 55 Rating, Add		1,562.41		
		For Class 56 Rating, Add		2,071.92		
40 05 19 00-2287	EA	14" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,413.77		788.40
		For Class 52 Rating, Deduct		-794.12		
		For Class 54 Rating, Add		1,097.22		
		For Class 55 Rating, Add		1,638.56		
		For Class 56 Rating, Add		2,172.68		
40 05 19 00-2288	EA	14" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,761.19		792.80
		For Class 52 Rating, Deduct		-831.60		
		For Class 54 Rating, Add		1,148.41		
		For Class 55 Rating, Add		1,714.70		
		For Class 56 Rating, Add		2,273.44		
40 05 19 00-2289	EA	14" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,108.59		797.21
		For Class 52 Rating, Deduct		-869.08		
		For Class 54 Rating, Add		1,199.60		
		For Class 55 Rating, Add		1,790.85		
		For Class 56 Rating, Add		2,374.19		
40 05 19 00-2290	EA	14" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,455.99		801.61
		For Class 52 Rating, Deduct		-906.56		
		For Class 54 Rating, Add		1,250.79		
		For Class 55 Rating, Add		1,866.99		
		For Class 56 Rating, Add		2,474.95		
40 05 19 00-2291	EA	14" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,803.40		806.02
		For Class 52 Rating, Deduct		-944.04		
		For Class 54 Rating, Add		1,301.98		
		For Class 55 Rating, Add		1,943.13		
		For Class 56 Rating, Add		2,575.70		
40 05 19 00-2292	EA	14" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,150.80		810.42
		For Class 52 Rating, Deduct		-981.52		
		For Class 54 Rating, Add		1,353.17		
		For Class 55 Rating, Add		2,019.27		
		For Class 56 Rating, Add		2,676.46		
40 05 19 00-2293	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,498.20		814.83
		For Class 52 Rating, Deduct		-1,019.00		
		For Class 54 Rating, Add		1,404.36		
		For Class 55 Rating, Add		2,095.42		
		For Class 56 Rating, Add		2,777.21		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2294	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,845.60	819.23
		For Class 52 Rating, Deduct	-1,056.48	
		For Class 54 Rating, Add	1,455.55	
		For Class 55 Rating, Add	2,171.56	
		For Class 56 Rating, Add	2,877.97	
40 05 19 00-2295	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,193.01	823.64
		For Class 52 Rating, Deduct	-1,093.96	
		For Class 54 Rating, Add	1,506.74	
		For Class 55 Rating, Add	2,247.70	
		For Class 56 Rating, Add	2,978.72	
40 05 19 00-2296	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,540.41	828.03
		For Class 52 Rating, Deduct	-1,131.44	
		For Class 54 Rating, Add	1,557.93	
		For Class 55 Rating, Add	2,323.85	
		For Class 56 Rating, Add	3,079.48	
40 05 19 00-2297	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,887.81	832.44
		For Class 52 Rating, Deduct	-1,168.92	
		For Class 54 Rating, Add	1,609.12	
		For Class 55 Rating, Add	2,399.99	
		For Class 56 Rating, Add	3,180.24	
40 05 19 00-2298	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,235.22	836.84
		For Class 52 Rating, Deduct	-1,206.40	
		For Class 54 Rating, Add	1,660.31	
		For Class 55 Rating, Add	2,476.13	
		For Class 56 Rating, Add	3,280.99	
40 05 19 00-2299	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,582.63	841.25
		For Class 52 Rating, Deduct	-1,243.88	
		For Class 54 Rating, Add	1,711.50	
		For Class 55 Rating, Add	2,552.28	
		For Class 56 Rating, Add	3,381.75	
40 05 19 00-2300	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,930.03	845.65
		For Class 52 Rating, Deduct	-1,281.36	
		For Class 54 Rating, Add	1,762.69	
		For Class 55 Rating, Add	2,628.42	
		For Class 56 Rating, Add	3,482.50	
40 05 19 00-2301	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,277.43	850.06
		For Class 52 Rating, Deduct	-1,318.84	
		For Class 54 Rating, Add	1,813.88	
		For Class 55 Rating, Add	2,704.56	
		For Class 56 Rating, Add	3,583.26	
40 05 19 00-2302	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,624.84	854.46
		For Class 52 Rating, Deduct	-1,356.32	
		For Class 54 Rating, Add	1,865.07	
		For Class 55 Rating, Add	2,780.71	
		For Class 56 Rating, Add	3,684.02	
40 05 19 00-2303	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,972.24	858.87
		For Class 52 Rating, Deduct	-1,393.80	
		For Class 54 Rating, Add	1,916.26	
		For Class 55 Rating, Add	2,856.85	
		For Class 56 Rating, Add	3,784.77	
40 05 19 00-2304	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,319.64	863.27
		For Class 52 Rating, Deduct	-1,431.28	
		For Class 54 Rating, Add	1,967.44	
		For Class 55 Rating, Add	2,932.99	
		For Class 56 Rating, Add	3,885.53	
40 05 19 00-2305	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,667.04	867.68
		For Class 52 Rating, Deduct	-1,468.76	
		For Class 54 Rating, Add	2,018.63	
		For Class 55 Rating, Add	3,009.13	
		For Class 56 Rating, Add	3,986.28	
40 05 19 00-2306	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,014.46	872.08
		For Class 52 Rating, Deduct	-1,506.24	
		For Class 54 Rating, Add	2,069.82	
		For Class 55 Rating, Add	3,085.28	
		For Class 56 Rating, Add	4,087.04	
40 05 19 00-2307	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,361.86	876.49
		For Class 52 Rating, Deduct	-1,543.72	
		For Class 54 Rating, Add	2,121.01	
		For Class 55 Rating, Add	3,161.42	
		For Class 56 Rating, Add	4,187.79	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2308	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,709.26	880.89
		For Class 52 Rating, Deduct		-1,581.20	
		For Class 54 Rating, Add		2,172.20	
		For Class 55 Rating, Add		3,237.56	
		For Class 56 Rating, Add		4,288.55	
40 05 19 00-2309	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,056.67	885.30
		For Class 52 Rating, Deduct		-1,618.68	
		For Class 54 Rating, Add		2,223.39	
		For Class 55 Rating, Add		3,313.71	
		For Class 56 Rating, Add		4,389.31	
40 05 19 00-2310	EA	14" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,404.08	889.70
		For Class 52 Rating, Deduct		-1,656.17	
		For Class 54 Rating, Add		2,274.58	
		For Class 55 Rating, Add		3,389.85	
		For Class 56 Rating, Add		4,490.06	
40 05 19 00-2311	EA	14" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,751.48	894.11
		For Class 52 Rating, Deduct		-1,693.65	
		For Class 54 Rating, Add		2,325.77	
		For Class 55 Rating, Add		3,465.99	
		For Class 56 Rating, Add		4,590.82	
40 05 19 00-2312	EA	14" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,098.88	898.50
		For Class 52 Rating, Deduct		-1,731.13	
		For Class 54 Rating, Add		2,376.96	
		For Class 55 Rating, Add		3,542.14	
		For Class 56 Rating, Add		4,691.57	
40 05 19 00-2313	EA	14" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		17,446.29	902.91
		For Class 52 Rating, Deduct		-1,768.61	
		For Class 54 Rating, Add		2,428.15	
		For Class 55 Rating, Add		3,618.28	
		For Class 56 Rating, Add		4,792.33	
40 05 19 00-2314 16" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2315	EA	16" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,388.31	845.65
		For Class 52 Rating, Deduct		-451.77	
		For Class 54 Rating, Add		631.43	
		For Class 55 Rating, Add		946.62	
		For Class 56 Rating, Add		1,257.70	
40 05 19 00-2316	EA	16" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,790.48	850.06
		For Class 52 Rating, Deduct		-495.28	
		For Class 54 Rating, Add		690.83	
		For Class 55 Rating, Add		1,034.97	
		For Class 56 Rating, Add		1,374.61	
40 05 19 00-2317	EA	16" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,192.65	854.46
		For Class 52 Rating, Deduct		-538.78	
		For Class 54 Rating, Add		750.24	
		For Class 55 Rating, Add		1,123.33	
		For Class 56 Rating, Add		1,491.52	
40 05 19 00-2318	EA	16" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,594.81	858.87
		For Class 52 Rating, Deduct		-582.29	
		For Class 54 Rating, Add		809.64	
		For Class 55 Rating, Add		1,211.68	
		For Class 56 Rating, Add		1,608.43	
40 05 19 00-2319	EA	16" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,996.97	863.27
		For Class 52 Rating, Deduct		-625.79	
		For Class 54 Rating, Add		869.04	
		For Class 55 Rating, Add		1,300.04	
		For Class 56 Rating, Add		1,725.34	
40 05 19 00-2320	EA	16" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,399.13	867.68
		For Class 52 Rating, Deduct		-669.29	
		For Class 54 Rating, Add		928.45	
		For Class 55 Rating, Add		1,388.39	
		For Class 56 Rating, Add		1,842.25	
40 05 19 00-2321	EA	16" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,801.31	872.08
		For Class 52 Rating, Deduct		-712.80	
		For Class 54 Rating, Add		987.85	
		For Class 55 Rating, Add		1,476.75	
		For Class 56 Rating, Add		1,959.16	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2322	EA	16" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,203.47	876.49
		For Class 52 Rating, Deduct	-756.30	
		For Class 54 Rating, Add	1,047.26	
		For Class 55 Rating, Add	1,565.10	
		For Class 56 Rating, Add	2,076.07	
40 05 19 00-2323	EA	16" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,605.63	880.89
		For Class 52 Rating, Deduct	-799.80	
		For Class 54 Rating, Add	1,106.66	
		For Class 55 Rating, Add	1,653.45	
		For Class 56 Rating, Add	2,192.98	
40 05 19 00-2324	EA	16" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,007.80	885.30
		For Class 52 Rating, Deduct	-843.31	
		For Class 54 Rating, Add	1,166.06	
		For Class 55 Rating, Add	1,741.81	
		For Class 56 Rating, Add	2,309.89	
40 05 19 00-2325	EA	16" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,409.97	889.70
		For Class 52 Rating, Deduct	-886.81	
		For Class 54 Rating, Add	1,225.47	
		For Class 55 Rating, Add	1,830.17	
		For Class 56 Rating, Add	2,426.80	
40 05 19 00-2326	EA	16" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,812.13	894.11
		For Class 52 Rating, Deduct	-930.32	
		For Class 54 Rating, Add	1,284.87	
		For Class 55 Rating, Add	1,918.52	
		For Class 56 Rating, Add	2,543.71	
40 05 19 00-2327	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,214.29	898.50
		For Class 52 Rating, Deduct	-973.82	
		For Class 54 Rating, Add	1,344.27	
		For Class 55 Rating, Add	2,006.87	
		For Class 56 Rating, Add	2,660.62	
40 05 19 00-2328	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,616.46	902.91
		For Class 52 Rating, Deduct	-1,017.33	
		For Class 54 Rating, Add	1,403.68	
		For Class 55 Rating, Add	2,095.23	
		For Class 56 Rating, Add	2,777.53	
40 05 19 00-2329	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,018.62	907.31
		For Class 52 Rating, Deduct	-1,060.83	
		For Class 54 Rating, Add	1,463.08	
		For Class 55 Rating, Add	2,183.58	
		For Class 56 Rating, Add	2,894.44	
40 05 19 00-2330	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,420.78	911.72
		For Class 52 Rating, Deduct	-1,104.33	
		For Class 54 Rating, Add	1,522.49	
		For Class 55 Rating, Add	2,271.94	
		For Class 56 Rating, Add	3,011.35	
40 05 19 00-2331	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,822.95	916.12
		For Class 52 Rating, Deduct	-1,147.84	
		For Class 54 Rating, Add	1,581.89	
		For Class 55 Rating, Add	2,360.29	
		For Class 56 Rating, Add	3,128.26	
40 05 19 00-2332	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,225.11	920.53
		For Class 52 Rating, Deduct	-1,191.34	
		For Class 54 Rating, Add	1,641.29	
		For Class 55 Rating, Add	2,448.65	
		For Class 56 Rating, Add	3,245.17	
40 05 19 00-2333	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,627.28	924.93
		For Class 52 Rating, Deduct	-1,234.85	
		For Class 54 Rating, Add	1,700.70	
		For Class 55 Rating, Add	2,537.00	
		For Class 56 Rating, Add	3,362.08	
40 05 19 00-2334	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,029.44	929.34
		For Class 52 Rating, Deduct	-1,278.35	
		For Class 54 Rating, Add	1,760.10	
		For Class 55 Rating, Add	2,625.36	
		For Class 56 Rating, Add	3,478.99	
40 05 19 00-2335	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,431.61	933.74
		For Class 52 Rating, Deduct	-1,321.85	
		For Class 54 Rating, Add	1,819.50	
		For Class 55 Rating, Add	2,713.71	
		For Class 56 Rating, Add	3,595.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2336	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,833.77		938.15
		For Class 52 Rating, Deduct	-1,365.36		
		For Class 54 Rating, Add	1,878.91		
		For Class 55 Rating, Add	2,802.07		
		For Class 56 Rating, Add	3,712.81		
40 05 19 00-2337	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,235.93		942.55
		For Class 52 Rating, Deduct	-1,408.86		
		For Class 54 Rating, Add	1,938.31		
		For Class 55 Rating, Add	2,890.42		
		For Class 56 Rating, Add	3,829.72		
40 05 19 00-2338	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,638.11		946.96
		For Class 52 Rating, Deduct	-1,452.37		
		For Class 54 Rating, Add	1,997.72		
		For Class 55 Rating, Add	2,978.78		
		For Class 56 Rating, Add	3,946.63		
40 05 19 00-2339	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,040.27		951.36
		For Class 52 Rating, Deduct	-1,495.87		
		For Class 54 Rating, Add	2,057.12		
		For Class 55 Rating, Add	3,067.13		
		For Class 56 Rating, Add	4,063.54		
40 05 19 00-2340	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,442.43		955.77
		For Class 52 Rating, Deduct	-1,539.37		
		For Class 54 Rating, Add	2,116.52		
		For Class 55 Rating, Add	3,155.48		
		For Class 56 Rating, Add	4,180.45		
40 05 19 00-2341	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,844.60		960.17
		For Class 52 Rating, Deduct	-1,582.88		
		For Class 54 Rating, Add	2,175.93		
		For Class 55 Rating, Add	3,243.84		
		For Class 56 Rating, Add	4,297.36		
40 05 19 00-2342	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,246.77		964.58
		For Class 52 Rating, Deduct	-1,626.38		
		For Class 54 Rating, Add	2,235.33		
		For Class 55 Rating, Add	3,332.20		
		For Class 56 Rating, Add	4,414.27		
40 05 19 00-2343	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,648.93		968.97
		For Class 52 Rating, Deduct	-1,669.89		
		For Class 54 Rating, Add	2,294.73		
		For Class 55 Rating, Add	3,420.55		
		For Class 56 Rating, Add	4,531.18		
40 05 19 00-2344	EA	16" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,051.09		973.38
		For Class 52 Rating, Deduct	-1,713.39		
		For Class 54 Rating, Add	2,354.14		
		For Class 55 Rating, Add	3,508.90		
		For Class 56 Rating, Add	4,648.09		
40 05 19 00-2345	EA	16" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,453.25		977.78
		For Class 52 Rating, Deduct	-1,756.89		
		For Class 54 Rating, Add	2,413.54		
		For Class 55 Rating, Add	3,597.26		
		For Class 56 Rating, Add	4,765.00		
40 05 19 00-2346	EA	16" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,855.42		982.19
		For Class 52 Rating, Deduct	-1,800.40		
		For Class 54 Rating, Add	2,472.95		
		For Class 55 Rating, Add	3,685.61		
		For Class 56 Rating, Add	4,881.91		
40 05 19 00-2347	EA	16" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,257.58		986.59
		For Class 52 Rating, Deduct	-1,843.90		
		For Class 54 Rating, Add	2,532.35		
		For Class 55 Rating, Add	3,773.97		
		For Class 56 Rating, Add	4,998.82		
40 05 19 00-2348	EA	16" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,659.74		991.00
		For Class 52 Rating, Deduct	-1,887.41		
		For Class 54 Rating, Add	2,591.75		
		For Class 55 Rating, Add	3,862.32		
		For Class 56 Rating, Add	5,115.73		
40 05 19 00-2349	EA	16" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,061.91		995.40
		For Class 52 Rating, Deduct	-1,930.91		
		For Class 54 Rating, Add	2,651.16		
		For Class 55 Rating, Add	3,950.68		
		For Class 56 Rating, Add	5,232.64		



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-2350	EA	16" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,464.08	999.81
		For Class 52 Rating, Deduct		-1,974.41	
		For Class 54 Rating, Add		2,710.56	
		For Class 55 Rating, Add		4,039.03	
		For Class 56 Rating, Add		5,349.55	
40 05 19 00-2351	EA	16" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,866.24	1,004.21
		For Class 52 Rating, Deduct		-2,017.92	
		For Class 54 Rating, Add		2,769.96	
		For Class 55 Rating, Add		4,127.39	
		For Class 56 Rating, Add		5,466.46	
40 05 19 00-2352	EA	16" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,268.40	1,008.62
		For Class 52 Rating, Deduct		-2,061.42	
		For Class 54 Rating, Add		2,829.37	
		For Class 55 Rating, Add		4,215.74	
		For Class 56 Rating, Add		5,583.37	
40 05 19 00-2353 18" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2354	EA	18" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,281.29	953.12
		For Class 52 Rating, Deduct		-532.09	
		For Class 54 Rating, Add		742.90	
		For Class 55 Rating, Add		1,113.35	
		For Class 56 Rating, Add		1,478.95	
40 05 19 00-2355	EA	18" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,744.30	957.53
		For Class 52 Rating, Deduct		-582.29	
		For Class 54 Rating, Add		811.43	
		For Class 55 Rating, Add		1,215.27	
		For Class 56 Rating, Add		1,613.81	
40 05 19 00-2356	EA	18" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,207.30	961.93
		For Class 52 Rating, Deduct		-632.48	
		For Class 54 Rating, Add		879.96	
		For Class 55 Rating, Add		1,317.19	
		For Class 56 Rating, Add		1,748.67	
40 05 19 00-2357	EA	18" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,670.32	966.34
		For Class 52 Rating, Deduct		-682.68	
		For Class 54 Rating, Add		948.50	
		For Class 55 Rating, Add		1,419.12	
		For Class 56 Rating, Add		1,883.53	
40 05 19 00-2358	EA	18" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,133.33	970.74
		For Class 52 Rating, Deduct		-732.88	
		For Class 54 Rating, Add		1,017.03	
		For Class 55 Rating, Add		1,521.04	
		For Class 56 Rating, Add		2,018.39	
40 05 19 00-2359	EA	18" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		8,596.33	975.15
		For Class 52 Rating, Deduct		-783.07	
		For Class 54 Rating, Add		1,085.56	
		For Class 55 Rating, Add		1,622.96	
		For Class 56 Rating, Add		2,153.25	
40 05 19 00-2360	EA	18" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,059.34	979.55
		For Class 52 Rating, Deduct		-833.27	
		For Class 54 Rating, Add		1,154.09	
		For Class 55 Rating, Add		1,724.88	
		For Class 56 Rating, Add		2,288.11	
40 05 19 00-2361	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,522.35	983.95
		For Class 52 Rating, Deduct		-883.47	
		For Class 54 Rating, Add		1,222.62	
		For Class 55 Rating, Add		1,826.81	
		For Class 56 Rating, Add		2,422.97	
40 05 19 00-2362	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,985.36	988.35
		For Class 52 Rating, Deduct		-933.66	
		For Class 54 Rating, Add		1,291.15	
		For Class 55 Rating, Add		1,928.73	
		For Class 56 Rating, Add		2,557.83	
40 05 19 00-2363	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,448.37	992.76
		For Class 52 Rating, Deduct		-983.86	
		For Class 54 Rating, Add		1,359.68	
		For Class 55 Rating, Add		2,030.65	
		For Class 56 Rating, Add		2,692.69	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2364	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		10,911.38		997.16
		For Class 52 Rating, Deduct		-1,034.06		
		For Class 54 Rating, Add		1,428.21		
		For Class 55 Rating, Add		2,132.58		
		For Class 56 Rating, Add		2,827.54		
40 05 19 00-2365	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,374.39		1,001.57
		For Class 52 Rating, Deduct		-1,084.25		
		For Class 54 Rating, Add		1,496.74		
		For Class 55 Rating, Add		2,234.50		
		For Class 56 Rating, Add		2,962.40		
40 05 19 00-2366	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		11,837.39		1,005.97
		For Class 52 Rating, Deduct		-1,134.45		
		For Class 54 Rating, Add		1,565.27		
		For Class 55 Rating, Add		2,336.42		
		For Class 56 Rating, Add		3,097.26		
40 05 19 00-2367	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,300.40		1,010.38
		For Class 52 Rating, Deduct		-1,184.65		
		For Class 54 Rating, Add		1,633.80		
		For Class 55 Rating, Add		2,438.35		
		For Class 56 Rating, Add		3,232.12		
40 05 19 00-2368	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		12,763.42		1,014.78
		For Class 52 Rating, Deduct		-1,234.85		
		For Class 54 Rating, Add		1,702.33		
		For Class 55 Rating, Add		2,540.27		
		For Class 56 Rating, Add		3,366.98		
40 05 19 00-2369	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,226.43		1,019.19
		For Class 52 Rating, Deduct		-1,285.04		
		For Class 54 Rating, Add		1,770.86		
		For Class 55 Rating, Add		2,642.19		
		For Class 56 Rating, Add		3,501.84		
40 05 19 00-2370	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,689.44		1,023.59
		For Class 52 Rating, Deduct		-1,335.24		
		For Class 54 Rating, Add		1,839.39		
		For Class 55 Rating, Add		2,744.12		
		For Class 56 Rating, Add		3,636.70		
40 05 19 00-2371	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,152.44		1,028.00
		For Class 52 Rating, Deduct		-1,385.44		
		For Class 54 Rating, Add		1,907.92		
		For Class 55 Rating, Add		2,846.04		
		For Class 56 Rating, Add		3,771.56		
40 05 19 00-2372	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		14,615.46		1,032.40
		For Class 52 Rating, Deduct		-1,435.63		
		For Class 54 Rating, Add		1,976.45		
		For Class 55 Rating, Add		2,947.96		
		For Class 56 Rating, Add		3,906.42		
40 05 19 00-2373	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,078.47		1,036.81
		For Class 52 Rating, Deduct		-1,485.83		
		For Class 54 Rating, Add		2,044.98		
		For Class 55 Rating, Add		3,049.89		
		For Class 56 Rating, Add		4,041.28		
40 05 19 00-2374	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		15,541.47		1,041.21
		For Class 52 Rating, Deduct		-1,536.03		
		For Class 54 Rating, Add		2,113.51		
		For Class 55 Rating, Add		3,151.81		
		For Class 56 Rating, Add		4,176.14		
40 05 19 00-2375	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,004.49		1,045.62
		For Class 52 Rating, Deduct		-1,586.22		
		For Class 54 Rating, Add		2,182.04		
		For Class 55 Rating, Add		3,253.73		
		For Class 56 Rating, Add		4,311.00		
40 05 19 00-2376	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,467.49		1,050.02
		For Class 52 Rating, Deduct		-1,636.42		
		For Class 54 Rating, Add		2,250.57		
		For Class 55 Rating, Add		3,355.65		
		For Class 56 Rating, Add		4,445.86		
40 05 19 00-2377	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		16,930.50		1,054.42
		For Class 52 Rating, Deduct		-1,686.62		
		For Class 54 Rating, Add		2,319.10		
		For Class 55 Rating, Add		3,457.58		
		For Class 56 Rating, Add		4,580.72		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2378	EA	18" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,393.51	1,058.82
		For Class 52 Rating, Deduct	-1,736.82	
		For Class 54 Rating, Add	2,387.64	
		For Class 55 Rating, Add	3,559.50	
		For Class 56 Rating, Add	4,715.58	
40 05 19 00-2379	EA	18" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,856.52	1,063.23
		For Class 52 Rating, Deduct	-1,787.01	
		For Class 54 Rating, Add	2,456.17	
		For Class 55 Rating, Add	3,661.42	
		For Class 56 Rating, Add	4,850.43	
40 05 19 00-2380	EA	18" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,319.53	1,067.63
		For Class 52 Rating, Deduct	-1,837.21	
		For Class 54 Rating, Add	2,524.70	
		For Class 55 Rating, Add	3,763.35	
		For Class 56 Rating, Add	4,985.30	
40 05 19 00-2381	EA	18" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,782.53	1,072.04
		For Class 52 Rating, Deduct	-1,887.41	
		For Class 54 Rating, Add	2,593.23	
		For Class 55 Rating, Add	3,865.27	
		For Class 56 Rating, Add	5,120.15	
40 05 19 00-2382	EA	18" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,245.55	1,076.44
		For Class 52 Rating, Deduct	-1,937.60	
		For Class 54 Rating, Add	2,661.76	
		For Class 55 Rating, Add	3,967.19	
		For Class 56 Rating, Add	5,255.01	
40 05 19 00-2383	EA	18" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,708.56	1,080.85
		For Class 52 Rating, Deduct	-1,987.80	
		For Class 54 Rating, Add	2,730.29	
		For Class 55 Rating, Add	4,069.12	
		For Class 56 Rating, Add	5,389.87	
40 05 19 00-2384	EA	18" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,171.56	1,085.25
		For Class 52 Rating, Deduct	-2,038.00	
		For Class 54 Rating, Add	2,798.82	
		For Class 55 Rating, Add	4,171.04	
		For Class 56 Rating, Add	5,524.73	
40 05 19 00-2385	EA	18" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,634.57	1,089.66
		For Class 52 Rating, Deduct	-2,088.19	
		For Class 54 Rating, Add	2,867.35	
		For Class 55 Rating, Add	4,272.96	
		For Class 56 Rating, Add	5,659.59	
40 05 19 00-2386	EA	18" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,097.58	1,094.06
		For Class 52 Rating, Deduct	-2,138.39	
		For Class 54 Rating, Add	2,935.88	
		For Class 55 Rating, Add	4,374.88	
		For Class 56 Rating, Add	5,794.45	
40 05 19 00-2387	EA	18" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,560.60	1,098.47
		For Class 52 Rating, Deduct	-2,188.59	
		For Class 54 Rating, Add	3,004.41	
		For Class 55 Rating, Add	4,476.81	
		For Class 56 Rating, Add	5,929.31	
40 05 19 00-2388	EA	18" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,023.61	1,102.87
		For Class 52 Rating, Deduct	-2,238.78	
		For Class 54 Rating, Add	3,072.94	
		For Class 55 Rating, Add	4,578.73	
		For Class 56 Rating, Add	6,064.17	
40 05 19 00-2389	EA	18" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,486.62	1,107.28
		For Class 52 Rating, Deduct	-2,288.98	
		For Class 54 Rating, Add	3,141.47	
		For Class 55 Rating, Add	4,680.65	
		For Class 56 Rating, Add	6,199.03	
40 05 19 00-2390	EA	18" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,949.63	1,111.68
		For Class 52 Rating, Deduct	-2,339.18	
		For Class 54 Rating, Add	3,210.00	
		For Class 55 Rating, Add	4,782.58	
		For Class 56 Rating, Add	6,333.89	
40 05 19 00-2391	EA	18" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,412.63	1,116.09
		For Class 52 Rating, Deduct	-2,389.37	
		For Class 54 Rating, Add	3,278.53	
		For Class 55 Rating, Add	4,884.50	
		For Class 56 Rating, Add	6,468.75	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-2392	20" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2393	EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,352.53	1,087.90
	For Class 52 Rating, Deduct	-627.46	
	For Class 54 Rating, Add	875.41	
	For Class 55 Rating, Add	1,311.60	
	For Class 56 Rating, Add	1,742.08	
40 05 19 00-2394	EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,879.42	1,092.30
	For Class 52 Rating, Deduct	-684.69	
	For Class 54 Rating, Add	953.52	
	For Class 55 Rating, Add	1,427.77	
	For Class 56 Rating, Add	1,895.78	
40 05 19 00-2395	EA 20" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,406.33	1,096.71
	For Class 52 Rating, Deduct	-741.91	
	For Class 54 Rating, Add	1,031.64	
	For Class 55 Rating, Add	1,543.94	
	For Class 56 Rating, Add	2,049.49	
40 05 19 00-2396	EA 20" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,933.22	1,101.11
	For Class 52 Rating, Deduct	-799.14	
	For Class 54 Rating, Add	1,109.75	
	For Class 55 Rating, Add	1,660.11	
	For Class 56 Rating, Add	2,203.20	
40 05 19 00-2397	EA 20" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,460.12	1,105.52
	For Class 52 Rating, Deduct	-856.36	
	For Class 54 Rating, Add	1,187.86	
	For Class 55 Rating, Add	1,776.28	
	For Class 56 Rating, Add	2,356.90	
40 05 19 00-2398	EA 20" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,987.02	1,109.92
	For Class 52 Rating, Deduct	-913.59	
	For Class 54 Rating, Add	1,265.98	
	For Class 55 Rating, Add	1,892.45	
	For Class 56 Rating, Add	2,510.61	
40 05 19 00-2399	EA 20" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,513.91	1,114.32
	For Class 52 Rating, Deduct	-970.81	
	For Class 54 Rating, Add	1,344.09	
	For Class 55 Rating, Add	2,008.62	
	For Class 56 Rating, Add	2,664.32	
40 05 19 00-2400	EA 20" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,040.80	1,118.72
	For Class 52 Rating, Deduct	-1,028.03	
	For Class 54 Rating, Add	1,422.20	
	For Class 55 Rating, Add	2,124.79	
	For Class 56 Rating, Add	2,818.02	
40 05 19 00-2401	EA 20" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,567.70	1,123.13
	For Class 52 Rating, Deduct	-1,085.26	
	For Class 54 Rating, Add	1,500.32	
	For Class 55 Rating, Add	2,240.95	
	For Class 56 Rating, Add	2,971.73	
40 05 19 00-2402	EA 20" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,094.60	1,127.53
	For Class 52 Rating, Deduct	-1,142.48	
	For Class 54 Rating, Add	1,578.43	
	For Class 55 Rating, Add	2,357.13	
	For Class 56 Rating, Add	3,125.43	
40 05 19 00-2403	EA 20" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,621.49	1,131.94
	For Class 52 Rating, Deduct	-1,199.71	
	For Class 54 Rating, Add	1,656.55	
	For Class 55 Rating, Add	2,473.30	
	For Class 56 Rating, Add	3,279.14	
40 05 19 00-2404	EA 20" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,148.39	1,136.34
	For Class 52 Rating, Deduct	-1,256.93	
	For Class 54 Rating, Add	1,734.66	
	For Class 55 Rating, Add	2,589.46	
	For Class 56 Rating, Add	3,432.84	
40 05 19 00-2405	EA 20" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,675.29	1,140.75
	For Class 52 Rating, Deduct	-1,314.16	
	For Class 54 Rating, Add	1,812.77	
	For Class 55 Rating, Add	2,705.64	
	For Class 56 Rating, Add	3,586.55	
40 05 19 00-2406	EA 20" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,202.18	1,145.15
	For Class 52 Rating, Deduct	-1,371.38	
	For Class 54 Rating, Add	1,890.89	
	For Class 55 Rating, Add	2,821.81	
	For Class 56 Rating, Add	3,740.26	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2407	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,729.07	1,149.56
		For Class 52 Rating, Deduct	-1,428.61	
		For Class 54 Rating, Add	1,969.00	
		For Class 55 Rating, Add	2,937.97	
		For Class 56 Rating, Add	3,893.96	
40 05 19 00-2408	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,255.98	1,153.96
		For Class 52 Rating, Deduct	-1,485.83	
		For Class 54 Rating, Add	2,047.11	
		For Class 55 Rating, Add	3,054.15	
		For Class 56 Rating, Add	4,047.67	
40 05 19 00-2409	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,782.87	1,158.37
		For Class 52 Rating, Deduct	-1,543.05	
		For Class 54 Rating, Add	2,125.23	
		For Class 55 Rating, Add	3,170.32	
		For Class 56 Rating, Add	4,201.38	
40 05 19 00-2410	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,309.76	1,162.78
		For Class 52 Rating, Deduct	-1,600.28	
		For Class 54 Rating, Add	2,203.34	
		For Class 55 Rating, Add	3,286.48	
		For Class 56 Rating, Add	4,355.08	
40 05 19 00-2411	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,836.66	1,167.18
		For Class 52 Rating, Deduct	-1,657.50	
		For Class 54 Rating, Add	2,281.45	
		For Class 55 Rating, Add	3,402.65	
		For Class 56 Rating, Add	4,508.79	
40 05 19 00-2412	EA	20" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,363.57	1,171.59
		For Class 52 Rating, Deduct	-1,714.73	
		For Class 54 Rating, Add	2,359.57	
		For Class 55 Rating, Add	3,518.83	
		For Class 56 Rating, Add	4,662.49	
40 05 19 00-2413	EA	20" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,890.46	1,175.99
		For Class 52 Rating, Deduct	-1,771.95	
		For Class 54 Rating, Add	2,437.68	
		For Class 55 Rating, Add	3,634.99	
		For Class 56 Rating, Add	4,816.20	
40 05 19 00-2414	EA	20" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,417.35	1,180.40
		For Class 52 Rating, Deduct	-1,829.18	
		For Class 54 Rating, Add	2,515.79	
		For Class 55 Rating, Add	3,751.16	
		For Class 56 Rating, Add	4,969.90	
40 05 19 00-2415	EA	20" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,944.26	1,184.79
		For Class 52 Rating, Deduct	-1,886.40	
		For Class 54 Rating, Add	2,593.91	
		For Class 55 Rating, Add	3,867.34	
		For Class 56 Rating, Add	5,123.61	
40 05 19 00-2416	EA	20" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,471.15	1,189.20
		For Class 52 Rating, Deduct	-1,943.63	
		For Class 54 Rating, Add	2,672.02	
		For Class 55 Rating, Add	3,983.50	
		For Class 56 Rating, Add	5,277.32	
40 05 19 00-2417	EA	20" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,998.04	1,193.60
		For Class 52 Rating, Deduct	-2,000.85	
		For Class 54 Rating, Add	2,750.13	
		For Class 55 Rating, Add	4,099.67	
		For Class 56 Rating, Add	5,431.02	
40 05 19 00-2418	EA	20" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,524.95	1,198.01
		For Class 52 Rating, Deduct	-2,058.08	
		For Class 54 Rating, Add	2,828.25	
		For Class 55 Rating, Add	4,215.85	
		For Class 56 Rating, Add	5,584.73	
40 05 19 00-2419	EA	20" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,051.84	1,202.41
		For Class 52 Rating, Deduct	-2,115.30	
		For Class 54 Rating, Add	2,906.36	
		For Class 55 Rating, Add	4,332.01	
		For Class 56 Rating, Add	5,738.44	
40 05 19 00-2420	EA	20" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,578.73	1,206.82
		For Class 52 Rating, Deduct	-2,172.52	
		For Class 54 Rating, Add	2,984.48	
		For Class 55 Rating, Add	4,448.18	
		For Class 56 Rating, Add	5,892.14	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2421	EA	20" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	22,105.63	1,211.22
		For Class 52 Rating, Deduct	.....	-2,229.75	
		For Class 54 Rating, Add	.....	3,062.59	
		For Class 55 Rating, Add	.....	4,564.35	
		For Class 56 Rating, Add	.....	6,045.85	
40 05 19 00-2422	EA	20" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	22,632.53	1,215.63
		For Class 52 Rating, Deduct	.....	-2,286.97	
		For Class 54 Rating, Add	.....	3,140.70	
		For Class 55 Rating, Add	.....	4,680.52	
		For Class 56 Rating, Add	.....	6,199.55	
40 05 19 00-2423	EA	20" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	23,159.42	1,220.03
		For Class 52 Rating, Deduct	.....	-2,344.20	
		For Class 54 Rating, Add	.....	3,218.82	
		For Class 55 Rating, Add	.....	4,796.69	
		For Class 56 Rating, Add	.....	6,353.26	
40 05 19 00-2424	EA	20" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	23,686.31	1,224.44
		For Class 52 Rating, Deduct	.....	-2,401.42	
		For Class 54 Rating, Add	.....	3,296.93	
		For Class 55 Rating, Add	.....	4,912.86	
		For Class 56 Rating, Add	.....	6,506.96	
40 05 19 00-2425	EA	20" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	24,213.22	1,228.84
		For Class 52 Rating, Deduct	.....	-2,458.65	
		For Class 54 Rating, Add	.....	3,375.04	
		For Class 55 Rating, Add	.....	5,029.03	
		For Class 56 Rating, Add	.....	6,660.67	
40 05 19 00-2426	EA	20" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	24,740.11	1,233.25
		For Class 52 Rating, Deduct	.....	-2,515.87	
		For Class 54 Rating, Add	.....	3,453.16	
		For Class 55 Rating, Add	.....	5,145.20	
		For Class 56 Rating, Add	.....	6,814.38	
40 05 19 00-2427	EA	20" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	25,267.00	1,237.65
		For Class 52 Rating, Deduct	.....	-2,573.10	
		For Class 54 Rating, Add	.....	3,531.27	
		For Class 55 Rating, Add	.....	5,261.37	
		For Class 56 Rating, Add	.....	6,968.08	
40 05 19 00-2428	EA	20" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	25,793.90	1,242.06
		For Class 52 Rating, Deduct	.....	-2,630.32	
		For Class 54 Rating, Add	.....	3,609.38	
		For Class 55 Rating, Add	.....	5,377.54	
		For Class 56 Rating, Add	.....	7,121.79	
40 05 19 00-2429	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	26,320.81	1,246.46
		For Class 52 Rating, Deduct	.....	-2,687.55	
		For Class 54 Rating, Add	.....	3,687.50	
		For Class 55 Rating, Add	.....	5,493.71	
		For Class 56 Rating, Add	.....	7,275.50	
40 05 19 00-2430	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	26,847.70	1,250.87
		For Class 52 Rating, Deduct	.....	-2,744.77	
		For Class 54 Rating, Add	.....	3,765.61	
		For Class 55 Rating, Add	.....	5,609.88	
		For Class 56 Rating, Add	.....	7,429.20	

40 05 19 00-2431 24" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe

40 05 19 00-2432	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		9,067.47	1,286.10
		For Class 52 Rating, Deduct	.....	-783.07	
		For Class 54 Rating, Add	.....	1,091.21	
		For Class 55 Rating, Add	.....	1,634.27	
		For Class 56 Rating, Add	.....	2,170.21	
40 05 19 00-2433	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	9,719.10	1,290.50
		For Class 52 Rating, Deduct	.....	-854.02	
		For Class 54 Rating, Add	.....	1,188.03	
		For Class 55 Rating, Add	.....	1,778.25	
		For Class 56 Rating, Add	.....	2,360.71	
40 05 19 00-2434	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	.....	10,370.73	1,294.91
		For Class 52 Rating, Deduct	.....	-924.96	
		For Class 54 Rating, Add	.....	1,284.86	
		For Class 55 Rating, Add	.....	1,922.24	
		For Class 56 Rating, Add	.....	2,551.21	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2435	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,022.36	1,299.31
		For Class 52 Rating, Deduct	-995.91	
		For Class 54 Rating, Add	1,381.68	
		For Class 55 Rating, Add	2,066.22	
		For Class 56 Rating, Add	2,741.72	
40 05 19 00-2436	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,673.98	1,303.72
		For Class 52 Rating, Deduct	-1,066.85	
		For Class 54 Rating, Add	1,478.50	
		For Class 55 Rating, Add	2,210.21	
		For Class 56 Rating, Add	2,932.22	
40 05 19 00-2437	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,325.62	1,308.12
		For Class 52 Rating, Deduct	-1,137.80	
		For Class 54 Rating, Add	1,575.33	
		For Class 55 Rating, Add	2,354.20	
		For Class 56 Rating, Add	3,122.72	
40 05 19 00-2438	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,977.24	1,312.53
		For Class 52 Rating, Deduct	-1,208.74	
		For Class 54 Rating, Add	1,672.15	
		For Class 55 Rating, Add	2,498.18	
		For Class 56 Rating, Add	3,313.22	
40 05 19 00-2439	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,628.87	1,316.93
		For Class 52 Rating, Deduct	-1,279.69	
		For Class 54 Rating, Add	1,768.97	
		For Class 55 Rating, Add	2,642.17	
		For Class 56 Rating, Add	3,503.72	
40 05 19 00-2440	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,280.50	1,321.34
		For Class 52 Rating, Deduct	-1,350.63	
		For Class 54 Rating, Add	1,865.80	
		For Class 55 Rating, Add	2,786.15	
		For Class 56 Rating, Add	3,694.22	
40 05 19 00-2441	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,932.14	1,325.73
		For Class 52 Rating, Deduct	-1,421.58	
		For Class 54 Rating, Add	1,962.62	
		For Class 55 Rating, Add	2,930.14	
		For Class 56 Rating, Add	3,884.73	
40 05 19 00-2442	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,583.76	1,330.14
		For Class 52 Rating, Deduct	-1,492.52	
		For Class 54 Rating, Add	2,059.44	
		For Class 55 Rating, Add	3,074.12	
		For Class 56 Rating, Add	4,075.23	
40 05 19 00-2443	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,235.39	1,334.54
		For Class 52 Rating, Deduct	-1,563.47	
		For Class 54 Rating, Add	2,156.27	
		For Class 55 Rating, Add	3,218.11	
		For Class 56 Rating, Add	4,265.73	
40 05 19 00-2444	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,887.02	1,338.95
		For Class 52 Rating, Deduct	-1,634.41	
		For Class 54 Rating, Add	2,253.09	
		For Class 55 Rating, Add	3,362.09	
		For Class 56 Rating, Add	4,456.23	
40 05 19 00-2445	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,538.65	1,343.35
		For Class 52 Rating, Deduct	-1,705.36	
		For Class 54 Rating, Add	2,349.91	
		For Class 55 Rating, Add	3,506.08	
		For Class 56 Rating, Add	4,646.74	
40 05 19 00-2446	EA	24" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,190.27	1,347.76
		For Class 52 Rating, Deduct	-1,776.30	
		For Class 54 Rating, Add	2,446.74	
		For Class 55 Rating, Add	3,650.06	
		For Class 56 Rating, Add	4,837.24	
40 05 19 00-2447	EA	24" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,841.89	1,352.16
		For Class 52 Rating, Deduct	-1,847.25	
		For Class 54 Rating, Add	2,543.56	
		For Class 55 Rating, Add	3,794.04	
		For Class 56 Rating, Add	5,027.74	
40 05 19 00-2448	EA	24" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,493.53	1,356.57
		For Class 52 Rating, Deduct	-1,918.19	
		For Class 54 Rating, Add	2,640.38	
		For Class 55 Rating, Add	3,938.03	
		For Class 56 Rating, Add	5,218.24	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2449	EA	24" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,145.15		1,360.97
		For Class 52 Rating, Deduct	-1,989.14		
		For Class 54 Rating, Add	2,737.21		
		For Class 55 Rating, Add	4,082.01		
		For Class 56 Rating, Add	5,408.74		
40 05 19 00-2450	EA	24" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,796.78		1,365.38
		For Class 52 Rating, Deduct	-2,060.08		
		For Class 54 Rating, Add	2,834.03		
		For Class 55 Rating, Add	4,226.00		
		For Class 56 Rating, Add	5,599.24		
40 05 19 00-2451	EA	24" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,448.41		1,369.78
		For Class 52 Rating, Deduct	-2,131.03		
		For Class 54 Rating, Add	2,930.85		
		For Class 55 Rating, Add	4,369.98		
		For Class 56 Rating, Add	5,789.74		
40 05 19 00-2452	EA	24" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,100.04		1,374.19
		For Class 52 Rating, Deduct	-2,201.97		
		For Class 54 Rating, Add	3,027.68		
		For Class 55 Rating, Add	4,513.97		
		For Class 56 Rating, Add	5,980.25		
40 05 19 00-2453	EA	24" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,751.66		1,378.59
		For Class 52 Rating, Deduct	-2,272.92		
		For Class 54 Rating, Add	3,124.50		
		For Class 55 Rating, Add	4,657.95		
		For Class 56 Rating, Add	6,170.75		
40 05 19 00-2454	EA	24" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,403.29		1,383.00
		For Class 52 Rating, Deduct	-2,343.86		
		For Class 54 Rating, Add	3,221.32		
		For Class 55 Rating, Add	4,801.94		
		For Class 56 Rating, Add	6,361.25		
40 05 19 00-2455	EA	24" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,054.92		1,387.40
		For Class 52 Rating, Deduct	-2,414.81		
		For Class 54 Rating, Add	3,318.15		
		For Class 55 Rating, Add	4,945.93		
		For Class 56 Rating, Add	6,551.75		
40 05 19 00-2456	EA	24" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,706.55		1,391.81
		For Class 52 Rating, Deduct	-2,485.75		
		For Class 54 Rating, Add	3,414.97		
		For Class 55 Rating, Add	5,089.91		
		For Class 56 Rating, Add	6,742.26		
40 05 19 00-2457	EA	24" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,358.18		1,396.21
		For Class 52 Rating, Deduct	-2,556.70		
		For Class 54 Rating, Add	3,511.79		
		For Class 55 Rating, Add	5,233.90		
		For Class 56 Rating, Add	6,932.76		
40 05 19 00-2458	EA	24" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,009.81		1,400.61
		For Class 52 Rating, Deduct	-2,627.64		
		For Class 54 Rating, Add	3,608.62		
		For Class 55 Rating, Add	5,377.88		
		For Class 56 Rating, Add	7,123.26		
40 05 19 00-2459	EA	24" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,661.44		1,405.01
		For Class 52 Rating, Deduct	-2,698.59		
		For Class 54 Rating, Add	3,705.44		
		For Class 55 Rating, Add	5,521.87		
		For Class 56 Rating, Add	7,313.76		
40 05 19 00-2460	EA	24" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,313.07		1,409.42
		For Class 52 Rating, Deduct	-2,769.53		
		For Class 54 Rating, Add	3,802.26		
		For Class 55 Rating, Add	5,665.85		
		For Class 56 Rating, Add	7,504.26		
40 05 19 00-2461	EA	24" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,078.14		1,488.70
		For Class 52 Rating, Deduct	-2,840.48		
		For Class 54 Rating, Add	3,900.45		
		For Class 55 Rating, Add	5,812.56		
		For Class 56 Rating, Add	7,698.85		
40 05 19 00-2462	EA	24" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,729.77		1,493.10
		For Class 52 Rating, Deduct	-2,911.42		
		For Class 54 Rating, Add	3,997.27		
		For Class 55 Rating, Add	5,956.54		
		For Class 56 Rating, Add	7,889.35		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2463	EA	24" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,381.40	1,497.51
		For Class 52 Rating, Deduct	-2,982.37	
		For Class 54 Rating, Add	4,094.09	
		For Class 55 Rating, Add	6,100.53	
		For Class 56 Rating, Add	8,079.85	
40 05 19 00-2464	EA	24" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,033.03	1,501.91
		For Class 52 Rating, Deduct	-3,053.31	
		For Class 54 Rating, Add	4,190.92	
		For Class 55 Rating, Add	6,244.52	
		For Class 56 Rating, Add	8,270.36	
40 05 19 00-2465	EA	24" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,684.65	1,506.32
		For Class 52 Rating, Deduct	-3,124.26	
		For Class 54 Rating, Add	4,287.74	
		For Class 55 Rating, Add	6,388.50	
		For Class 56 Rating, Add	8,460.86	
40 05 19 00-2466	EA	24" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,336.29	1,510.72
		For Class 52 Rating, Deduct	-3,195.20	
		For Class 54 Rating, Add	4,384.56	
		For Class 55 Rating, Add	6,532.49	
		For Class 56 Rating, Add	8,651.36	
40 05 19 00-2467	EA	24" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,987.91	1,515.13
		For Class 52 Rating, Deduct	-3,266.15	
		For Class 54 Rating, Add	4,481.39	
		For Class 55 Rating, Add	6,676.47	
		For Class 56 Rating, Add	8,841.86	
40 05 19 00-2468	EA	24" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,639.54	1,519.53
		For Class 52 Rating, Deduct	-3,337.09	
		For Class 54 Rating, Add	4,578.21	
		For Class 55 Rating, Add	6,820.46	
		For Class 56 Rating, Add	9,032.36	
40 05 19 00-2469	EA	24" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,291.16	1,523.94
		For Class 52 Rating, Deduct	-3,408.04	
		For Class 54 Rating, Add	4,675.03	
		For Class 55 Rating, Add	6,964.44	
		For Class 56 Rating, Add	9,222.86	
40 05 19 00-2470		30" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)		
40 05 19 00-2471	EA	30" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,017.90	1,814.63
		For Class 52 Rating, Deduct	-1,239.53	
		For Class 54 Rating, Add	1,723.26	
		For Class 55 Rating, Add	2,578.85	
		For Class 56 Rating, Add	3,423.18	
40 05 19 00-2472	EA	30" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,949.41	1,819.04
		For Class 52 Rating, Deduct	-1,341.26	
		For Class 54 Rating, Add	1,862.07	
		For Class 55 Rating, Add	2,785.25	
		For Class 56 Rating, Add	3,696.24	
40 05 19 00-2473	EA	30" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,880.93	1,823.44
		For Class 52 Rating, Deduct	-1,443.00	
		For Class 54 Rating, Add	2,000.87	
		For Class 55 Rating, Add	2,991.65	
		For Class 56 Rating, Add	3,969.31	
40 05 19 00-2474	EA	30" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,812.44	1,827.84
		For Class 52 Rating, Deduct	-1,544.73	
		For Class 54 Rating, Add	2,139.68	
		For Class 55 Rating, Add	3,198.05	
		For Class 56 Rating, Add	4,242.38	
40 05 19 00-2475	EA	30" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,743.95	1,832.24
		For Class 52 Rating, Deduct	-1,646.46	
		For Class 54 Rating, Add	2,278.49	
		For Class 55 Rating, Add	3,404.45	
		For Class 56 Rating, Add	4,515.45	
40 05 19 00-2476	EA	30" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,675.46	1,836.65
		For Class 52 Rating, Deduct	-1,748.19	
		For Class 54 Rating, Add	2,417.29	
		For Class 55 Rating, Add	3,610.85	
		For Class 56 Rating, Add	4,788.52	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2477	EA	30" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,606.98		1,841.05
		For Class 52 Rating, Deduct	-1,849.93		
		For Class 54 Rating, Add	2,556.10		
		For Class 55 Rating, Add	3,817.25		
		For Class 56 Rating, Add	5,061.58		
40 05 19 00-2478	EA	30" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,538.49		1,845.46
		For Class 52 Rating, Deduct	-1,951.66		
		For Class 54 Rating, Add	2,694.90		
		For Class 55 Rating, Add	4,023.65		
		For Class 56 Rating, Add	5,334.65		
40 05 19 00-2479	EA	30" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,470.01		1,849.86
		For Class 52 Rating, Deduct	-2,053.39		
		For Class 54 Rating, Add	2,833.71		
		For Class 55 Rating, Add	4,230.05		
		For Class 56 Rating, Add	5,607.72		
40 05 19 00-2480	EA	30" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,401.53		1,854.27
		For Class 52 Rating, Deduct	-2,155.12		
		For Class 54 Rating, Add	2,972.52		
		For Class 55 Rating, Add	4,436.45		
		For Class 56 Rating, Add	5,880.79		
40 05 19 00-2481	EA	30" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,333.05		1,858.67
		For Class 52 Rating, Deduct	-2,256.86		
		For Class 54 Rating, Add	3,111.32		
		For Class 55 Rating, Add	4,642.85		
		For Class 56 Rating, Add	6,153.86		
40 05 19 00-2482	EA	30" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,264.56		1,863.08
		For Class 52 Rating, Deduct	-2,358.59		
		For Class 54 Rating, Add	3,250.13		
		For Class 55 Rating, Add	4,849.25		
		For Class 56 Rating, Add	6,426.93		
40 05 19 00-2483	EA	30" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,196.07		1,867.48
		For Class 52 Rating, Deduct	-2,460.32		
		For Class 54 Rating, Add	3,388.94		
		For Class 55 Rating, Add	5,055.65		
		For Class 56 Rating, Add	6,699.99		
40 05 19 00-2484	EA	30" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,127.59		1,871.89
		For Class 52 Rating, Deduct	-2,562.05		
		For Class 54 Rating, Add	3,527.74		
		For Class 55 Rating, Add	5,262.05		
		For Class 56 Rating, Add	6,973.06		
40 05 19 00-2485	EA	30" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,059.10		1,876.29
		For Class 52 Rating, Deduct	-2,663.79		
		For Class 54 Rating, Add	3,666.55		
		For Class 55 Rating, Add	5,468.45		
		For Class 56 Rating, Add	7,246.13		
40 05 19 00-2486	EA	30" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,990.61		1,880.70
		For Class 52 Rating, Deduct	-2,765.52		
		For Class 54 Rating, Add	3,805.35		
		For Class 55 Rating, Add	5,674.85		
		For Class 56 Rating, Add	7,519.20		
40 05 19 00-2487	EA	30" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,922.12		1,885.10
		For Class 52 Rating, Deduct	-2,867.25		
		For Class 54 Rating, Add	3,944.16		
		For Class 55 Rating, Add	5,881.25		
		For Class 56 Rating, Add	7,792.27		
40 05 19 00-2488	EA	30" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,853.64		1,889.51
		For Class 52 Rating, Deduct	-2,968.98		
		For Class 54 Rating, Add	4,082.97		
		For Class 55 Rating, Add	6,087.65		
		For Class 56 Rating, Add	8,065.34		
40 05 19 00-2489	EA	30" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,785.15		1,893.91
		For Class 52 Rating, Deduct	-3,070.71		
		For Class 54 Rating, Add	4,221.77		
		For Class 55 Rating, Add	6,294.05		
		For Class 56 Rating, Add	8,338.40		
40 05 19 00-2490	EA	30" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,716.67		1,898.31
		For Class 52 Rating, Deduct	-3,172.45		
		For Class 54 Rating, Add	4,360.58		
		For Class 55 Rating, Add	6,500.45		
		For Class 56 Rating, Add	8,611.47		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2491	EA	30" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,648.19	1,902.71
		For Class 52 Rating, Deduct	-3,274.18	
		For Class 54 Rating, Add	4,499.39	
		For Class 55 Rating, Add	6,706.85	
		For Class 56 Rating, Add	8,884.54	
40 05 19 00-2492	EA	30" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,579.70	1,907.12
		For Class 52 Rating, Deduct	-3,375.91	
		For Class 54 Rating, Add	4,638.19	
		For Class 55 Rating, Add	6,913.25	
		For Class 56 Rating, Add	9,157.61	
40 05 19 00-2493	EA	30" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,511.21	1,911.52
		For Class 52 Rating, Deduct	-3,477.65	
		For Class 54 Rating, Add	4,777.00	
		For Class 55 Rating, Add	7,119.65	
		For Class 56 Rating, Add	9,430.68	
40 05 19 00-2494	EA	30" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,442.72	1,915.93
		For Class 52 Rating, Deduct	-3,579.38	
		For Class 54 Rating, Add	4,915.81	
		For Class 55 Rating, Add	7,326.05	
		For Class 56 Rating, Add	9,703.75	
40 05 19 00-2495	EA	30" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,374.24	1,920.33
		For Class 52 Rating, Deduct	-3,681.11	
		For Class 54 Rating, Add	5,054.61	
		For Class 55 Rating, Add	7,532.45	
		For Class 56 Rating, Add	9,976.81	
40 05 19 00-2496	EA	30" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,305.76	1,924.74
		For Class 52 Rating, Deduct	-3,782.84	
		For Class 54 Rating, Add	5,193.42	
		For Class 55 Rating, Add	7,738.84	
		For Class 56 Rating, Add	10,249.88	
40 05 19 00-2497	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,237.27	1,929.15
		For Class 52 Rating, Deduct	-3,884.58	
		For Class 54 Rating, Add	5,332.22	
		For Class 55 Rating, Add	7,945.24	
		For Class 56 Rating, Add	10,522.95	
40 05 19 00-2498	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,168.79	1,933.55
		For Class 52 Rating, Deduct	-3,986.31	
		For Class 54 Rating, Add	5,471.03	
		For Class 55 Rating, Add	8,151.64	
		For Class 56 Rating, Add	10,796.02	
40 05 19 00-2499	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,100.30	1,937.96
		For Class 52 Rating, Deduct	-4,088.04	
		For Class 54 Rating, Add	5,609.84	
		For Class 55 Rating, Add	8,358.04	
		For Class 56 Rating, Add	11,069.09	
40 05 19 00-2500	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,031.81	1,942.36
		For Class 52 Rating, Deduct	-4,189.77	
		For Class 54 Rating, Add	5,748.64	
		For Class 55 Rating, Add	8,564.44	
		For Class 56 Rating, Add	11,342.15	
40 05 19 00-2501	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,963.33	1,946.77
		For Class 52 Rating, Deduct	-4,291.51	
		For Class 54 Rating, Add	5,887.45	
		For Class 55 Rating, Add	8,770.84	
		For Class 56 Rating, Add	11,615.23	
40 05 19 00-2502	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,894.85	1,951.17
		For Class 52 Rating, Deduct	-4,393.24	
		For Class 54 Rating, Add	6,026.26	
		For Class 55 Rating, Add	8,977.24	
		For Class 56 Rating, Add	11,888.29	
40 05 19 00-2503	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,826.36	1,955.58
		For Class 52 Rating, Deduct	-4,494.97	
		For Class 54 Rating, Add	6,165.06	
		For Class 55 Rating, Add	9,183.64	
		For Class 56 Rating, Add	12,161.36	
40 05 19 00-2504	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,757.87	1,959.98
		For Class 52 Rating, Deduct	-4,596.70	
		For Class 54 Rating, Add	6,303.87	
		For Class 55 Rating, Add	9,390.04	
		For Class 56 Rating, Add	12,434.43	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2505	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		45,689.39	1,964.39
		For Class 52 Rating, Deduct		-4,698.44	
		For Class 54 Rating, Add		6,442.67	
		For Class 55 Rating, Add		9,596.44	
		For Class 56 Rating, Add		12,707.50	
40 05 19 00-2506 36" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2507	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		19,549.58	2,299.12
		For Class 52 Rating, Deduct		-1,767.27	
		For Class 54 Rating, Add		2,451.71	
		For Class 55 Rating, Add		3,666.34	
		For Class 56 Rating, Add		4,864.90	
40 05 19 00-2508	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		20,797.49	2,303.53
		For Class 52 Rating, Deduct		-1,903.80	
		For Class 54 Rating, Add		2,637.98	
		For Class 55 Rating, Add		3,943.29	
		For Class 56 Rating, Add		5,231.30	
40 05 19 00-2509	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		22,045.40	2,307.93
		For Class 52 Rating, Deduct		-2,040.34	
		For Class 54 Rating, Add		2,824.24	
		For Class 55 Rating, Add		4,220.25	
		For Class 56 Rating, Add		5,597.71	
40 05 19 00-2510	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		23,293.31	2,312.34
		For Class 52 Rating, Deduct		-2,176.87	
		For Class 54 Rating, Add		3,010.51	
		For Class 55 Rating, Add		4,497.20	
		For Class 56 Rating, Add		5,964.11	
40 05 19 00-2511	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		24,541.22	2,316.74
		For Class 52 Rating, Deduct		-2,313.41	
		For Class 54 Rating, Add		3,196.77	
		For Class 55 Rating, Add		4,774.16	
		For Class 56 Rating, Add		6,330.52	
40 05 19 00-2512	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		25,789.12	2,321.15
		For Class 52 Rating, Deduct		-2,449.95	
		For Class 54 Rating, Add		3,383.04	
		For Class 55 Rating, Add		5,051.11	
		For Class 56 Rating, Add		6,696.92	
40 05 19 00-2513	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		27,037.03	2,325.55
		For Class 52 Rating, Deduct		-2,586.48	
		For Class 54 Rating, Add		3,569.30	
		For Class 55 Rating, Add		5,328.07	
		For Class 56 Rating, Add		7,063.32	
40 05 19 00-2514	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		28,284.94	2,329.95
		For Class 52 Rating, Deduct		-2,723.02	
		For Class 54 Rating, Add		3,755.57	
		For Class 55 Rating, Add		5,605.03	
		For Class 56 Rating, Add		7,429.73	
40 05 19 00-2515	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		29,532.84	2,334.35
		For Class 52 Rating, Deduct		-2,859.55	
		For Class 54 Rating, Add		3,941.83	
		For Class 55 Rating, Add		5,881.98	
		For Class 56 Rating, Add		7,796.13	
40 05 19 00-2516	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		30,780.74	2,338.76
		For Class 52 Rating, Deduct		-2,996.09	
		For Class 54 Rating, Add		4,128.10	
		For Class 55 Rating, Add		6,158.93	
		For Class 56 Rating, Add		8,162.53	
40 05 19 00-2517	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		32,028.66	2,343.16
		For Class 52 Rating, Deduct		-3,132.63	
		For Class 54 Rating, Add		4,314.36	
		For Class 55 Rating, Add		6,435.89	
		For Class 56 Rating, Add		8,528.94	
40 05 19 00-2518	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		33,276.56	2,347.57
		For Class 52 Rating, Deduct		-3,269.16	
		For Class 54 Rating, Add		4,500.63	
		For Class 55 Rating, Add		6,712.85	
		For Class 56 Rating, Add		8,895.34	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2519	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,524.47	2,351.97
		For Class 52 Rating, Deduct	-3,405.70	
		For Class 54 Rating, Add	4,686.90	
		For Class 55 Rating, Add	6,989.80	
		For Class 56 Rating, Add	9,261.75	
40 05 19 00-2520	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,772.38	2,356.38
		For Class 52 Rating, Deduct	-3,542.23	
		For Class 54 Rating, Add	4,873.16	
		For Class 55 Rating, Add	7,266.76	
		For Class 56 Rating, Add	9,628.15	
40 05 19 00-2521	EA	36" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,020.28	2,360.78
		For Class 52 Rating, Deduct	-3,678.77	
		For Class 54 Rating, Add	5,059.42	
		For Class 55 Rating, Add	7,543.71	
		For Class 56 Rating, Add	9,994.56	
40 05 19 00-2522	EA	36" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,268.19	2,365.19
		For Class 52 Rating, Deduct	-3,815.30	
		For Class 54 Rating, Add	5,245.69	
		For Class 55 Rating, Add	7,820.67	
		For Class 56 Rating, Add	10,360.96	
40 05 19 00-2523	EA	36" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,516.09	2,369.59
		For Class 52 Rating, Deduct	-3,951.64	
		For Class 54 Rating, Add	5,431.95	
		For Class 55 Rating, Add	8,097.62	
		For Class 56 Rating, Add	10,727.36	
40 05 19 00-2524	EA	36" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,764.01	2,374.00
		For Class 52 Rating, Deduct	-4,088.38	
		For Class 54 Rating, Add	5,618.22	
		For Class 55 Rating, Add	8,374.58	
		For Class 56 Rating, Add	11,093.77	
40 05 19 00-2525	EA	36" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,011.92	2,378.40
		For Class 52 Rating, Deduct	-4,224.91	
		For Class 54 Rating, Add	5,804.49	
		For Class 55 Rating, Add	8,651.53	
		For Class 56 Rating, Add	11,460.17	
40 05 19 00-2526	EA	36" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,259.82	2,382.81
		For Class 52 Rating, Deduct	-4,361.45	
		For Class 54 Rating, Add	5,990.75	
		For Class 55 Rating, Add	8,928.49	
		For Class 56 Rating, Add	11,826.58	
40 05 19 00-2527	EA	36" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,507.74	2,387.21
		For Class 52 Rating, Deduct	-4,497.98	
		For Class 54 Rating, Add	6,177.02	
		For Class 55 Rating, Add	9,205.45	
		For Class 56 Rating, Add	12,192.98	
40 05 19 00-2528	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,755.64	2,391.62
		For Class 52 Rating, Deduct	-4,634.52	
		For Class 54 Rating, Add	6,363.28	
		For Class 55 Rating, Add	9,482.40	
		For Class 56 Rating, Add	12,559.39	
40 05 19 00-2529	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,003.55	2,396.02
		For Class 52 Rating, Deduct	-4,771.05	
		For Class 54 Rating, Add	6,549.55	
		For Class 55 Rating, Add	9,759.36	
		For Class 56 Rating, Add	12,925.79	
40 05 19 00-2530	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,251.45	2,400.42
		For Class 52 Rating, Deduct	-4,907.59	
		For Class 54 Rating, Add	6,735.81	
		For Class 55 Rating, Add	10,036.31	
		For Class 56 Rating, Add	13,292.19	
40 05 19 00-2531	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,499.36	2,404.82
		For Class 52 Rating, Deduct	-5,044.12	
		For Class 54 Rating, Add	6,922.08	
		For Class 55 Rating, Add	10,313.26	
		For Class 56 Rating, Add	13,658.60	
40 05 19 00-2532	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	50,747.27	2,409.23
		For Class 52 Rating, Deduct	-5,180.66	
		For Class 54 Rating, Add	7,108.34	
		For Class 55 Rating, Add	10,590.22	
		For Class 56 Rating, Add	14,025.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2533	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		51,995.17	2,413.63
		For Class 52 Rating, Deduct		-5,317.20	
		For Class 54 Rating, Add		7,294.61	
		For Class 55 Rating, Add		10,867.18	
		For Class 56 Rating, Add		14,391.41	
40 05 19 00-2534	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		53,243.08	2,418.04
		For Class 52 Rating, Deduct		-5,453.73	
		For Class 54 Rating, Add		7,480.87	
		For Class 55 Rating, Add		11,144.13	
		For Class 56 Rating, Add		14,757.81	
40 05 19 00-2535	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		54,490.99	2,422.44
		For Class 52 Rating, Deduct		-5,590.27	
		For Class 54 Rating, Add		7,667.14	
		For Class 55 Rating, Add		11,421.09	
		For Class 56 Rating, Add		15,124.22	
40 05 19 00-2536	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		55,738.89	2,426.85
		For Class 52 Rating, Deduct		-5,726.80	
		For Class 54 Rating, Add		7,853.40	
		For Class 55 Rating, Add		11,698.04	
		For Class 56 Rating, Add		15,490.62	
40 05 19 00-2537	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		56,986.80	2,431.25
		For Class 52 Rating, Deduct		-5,863.34	
		For Class 54 Rating, Add		8,039.67	
		For Class 55 Rating, Add		11,975.00	
		For Class 56 Rating, Add		15,857.03	
40 05 19 00-2538	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		58,234.71	2,435.66
		For Class 52 Rating, Deduct		-5,999.88	
		For Class 54 Rating, Add		8,225.93	
		For Class 55 Rating, Add		12,251.95	
		For Class 56 Rating, Add		16,223.43	
40 05 19 00-2539	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		59,482.61	2,440.06
		For Class 52 Rating, Deduct		-6,136.41	
		For Class 54 Rating, Add		8,412.20	
		For Class 55 Rating, Add		12,528.91	
		For Class 56 Rating, Add		16,589.83	
40 05 19 00-2540	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		60,730.52	2,444.47
		For Class 52 Rating, Deduct		-6,272.95	
		For Class 54 Rating, Add		8,598.46	
		For Class 55 Rating, Add		12,805.86	
		For Class 56 Rating, Add		16,956.24	
40 05 19 00-2541	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		61,978.42	2,448.87
		For Class 52 Rating, Deduct		-6,409.48	
		For Class 54 Rating, Add		8,784.73	
		For Class 55 Rating, Add		13,082.82	
		For Class 56 Rating, Add		17,322.64	
40 05 19 00-2542		42" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)			
40 05 19 00-2543	EA	42" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		25,823.67	2,898.13
		For Class 52 Rating, Deduct		-2,357.58	
		For Class 54 Rating, Add		3,267.58	
		For Class 55 Rating, Add		4,884.85	
		For Class 56 Rating, Add		6,480.69	
40 05 19 00-2544	EA	42" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		27,655.68	2,902.52
		For Class 52 Rating, Deduct		-2,558.37	
		For Class 54 Rating, Add		3,541.46	
		For Class 55 Rating, Add		5,292.06	
		For Class 56 Rating, Add		7,019.41	
40 05 19 00-2545	EA	42" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		29,472.51	2,906.93
		For Class 52 Rating, Deduct		-2,757.49	
		For Class 54 Rating, Add		3,813.06	
		For Class 55 Rating, Add		5,695.88	
		For Class 56 Rating, Add		7,553.64	
40 05 19 00-2546	EA	42" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		31,307.56	2,911.33
		For Class 52 Rating, Deduct		-2,958.61	
		For Class 54 Rating, Add		4,087.40	
		For Class 55 Rating, Add		6,103.77	
		For Class 56 Rating, Add		8,093.25	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2547	EA	42" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,130.45	2,915.74
		For Class 52 Rating, Deduct	-3,158.39	
		For Class 54 Rating, Add	4,359.91	
		For Class 55 Rating, Add	6,508.95	
		For Class 56 Rating, Add	8,629.28	
40 05 19 00-2548	EA	42" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,971.60	2,920.14
		For Class 52 Rating, Deduct	-3,360.18	
		For Class 54 Rating, Add	4,635.16	
		For Class 55 Rating, Add	6,918.20	
		For Class 56 Rating, Add	9,170.68	
40 05 19 00-2549	EA	42" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,794.49	2,924.55
		For Class 52 Rating, Deduct	-3,559.97	
		For Class 54 Rating, Add	4,907.68	
		For Class 55 Rating, Add	7,323.37	
		For Class 56 Rating, Add	9,706.71	
40 05 19 00-2550	EA	42" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,638.67	2,928.95
		For Class 52 Rating, Deduct	-3,762.09	
		For Class 54 Rating, Add	5,183.38	
		For Class 55 Rating, Add	7,733.30	
		For Class 56 Rating, Add	10,249.01	
40 05 19 00-2551	EA	42" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,467.64	2,933.36
		For Class 52 Rating, Deduct	-3,962.55	
		For Class 54 Rating, Add	5,456.81	
		For Class 55 Rating, Add	8,139.83	
		For Class 56 Rating, Add	10,786.83	
40 05 19 00-2552	EA	42" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,311.84	2,937.76
		For Class 52 Rating, Deduct	-4,164.67	
		For Class 54 Rating, Add	5,732.52	
		For Class 55 Rating, Add	8,549.76	
		For Class 56 Rating, Add	11,329.14	
40 05 19 00-2553	EA	42" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,140.81	2,942.17
		For Class 52 Rating, Deduct	-4,365.13	
		For Class 54 Rating, Add	6,005.94	
		For Class 55 Rating, Add	8,956.29	
		For Class 56 Rating, Add	11,866.96	
40 05 19 00-2554	EA	42" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,988.03	2,946.57
		For Class 52 Rating, Deduct	-4,567.59	
		For Class 54 Rating, Add	6,282.10	
		For Class 55 Rating, Add	9,366.90	
		For Class 56 Rating, Add	12,410.16	
40 05 19 00-2555	EA	42" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,817.02	2,950.98
		For Class 52 Rating, Deduct	-4,768.04	
		For Class 54 Rating, Add	6,555.53	
		For Class 55 Rating, Add	9,773.43	
		For Class 56 Rating, Add	12,947.99	
40 05 19 00-2556	EA	42" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,652.07	2,955.38
		For Class 52 Rating, Deduct	-4,969.16	
		For Class 54 Rating, Add	6,829.87	
		For Class 55 Rating, Add	10,181.32	
		For Class 56 Rating, Add	13,487.60	
40 05 19 00-2557	EA	42" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	51,496.25	2,959.79
		For Class 52 Rating, Deduct	-5,171.29	
		For Class 54 Rating, Add	7,105.57	
		For Class 55 Rating, Add	10,591.24	
		For Class 56 Rating, Add	14,029.90	
40 05 19 00-2558	EA	42" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,328.27	2,964.19
		For Class 52 Rating, Deduct	-5,372.08	
		For Class 54 Rating, Add	7,379.46	
		For Class 55 Rating, Add	10,998.46	
		For Class 56 Rating, Add	14,568.62	
40 05 19 00-2559	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	55,181.59	2,968.60
		For Class 52 Rating, Deduct	-5,575.21	
		For Class 54 Rating, Add	7,656.53	
		For Class 55 Rating, Add	11,410.42	
		For Class 56 Rating, Add	15,113.62	
40 05 19 00-2560	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	57,016.64	2,973.00
		For Class 52 Rating, Deduct	-5,776.33	
		For Class 54 Rating, Add	7,930.87	
		For Class 55 Rating, Add	11,818.31	
		For Class 56 Rating, Add	15,653.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2561	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	58,866.91	2,977.40
		For Class 52 Rating, Deduct	-5,979.13	
		For Class 54 Rating, Add	8,207.49	
		For Class 55 Rating, Add	12,229.59	
		For Class 56 Rating, Add	16,197.34	
40 05 19 00-2562	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	60,698.95	2,981.80
		For Class 52 Rating, Deduct	-6,179.92	
		For Class 54 Rating, Add	8,481.37	
		For Class 55 Rating, Add	12,636.80	
		For Class 56 Rating, Add	16,736.05	
40 05 19 00-2563	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	62,555.30	2,986.21
		For Class 52 Rating, Deduct	-6,383.38	
		For Class 54 Rating, Add	8,758.90	
		For Class 55 Rating, Add	13,049.44	
		For Class 56 Rating, Add	17,281.95	
40 05 19 00-2564	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	64,390.35	2,990.61
		For Class 52 Rating, Deduct	-6,584.50	
		For Class 54 Rating, Add	9,033.24	
		For Class 55 Rating, Add	13,457.33	
		For Class 56 Rating, Add	17,821.56	
40 05 19 00-2565	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	66,240.62	2,995.02
		For Class 52 Rating, Deduct	-6,787.30	
		For Class 54 Rating, Add	9,309.86	
		For Class 55 Rating, Add	13,868.61	
		For Class 56 Rating, Add	18,365.66	
40 05 19 00-2566	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	68,075.69	2,999.42
		For Class 52 Rating, Deduct	-6,988.42	
		For Class 54 Rating, Add	9,584.20	
		For Class 55 Rating, Add	14,276.51	
		For Class 56 Rating, Add	18,905.28	
40 05 19 00-2567	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	69,932.04	3,003.83
		For Class 52 Rating, Deduct	-7,191.89	
		For Class 54 Rating, Add	9,861.73	
		For Class 55 Rating, Add	14,689.14	
		For Class 56 Rating, Add	19,451.18	
40 05 19 00-2568	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	71,767.10	3,008.23
		For Class 52 Rating, Deduct	-7,393.01	
		For Class 54 Rating, Add	10,136.07	
		For Class 55 Rating, Add	15,097.04	
		For Class 56 Rating, Add	19,990.79	
40 05 19 00-2569	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	73,617.36	3,012.64
		For Class 52 Rating, Deduct	-7,595.80	
		For Class 54 Rating, Add	10,412.69	
		For Class 55 Rating, Add	15,508.32	
		For Class 56 Rating, Add	20,534.89	
40 05 19 00-2570	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	75,455.47	3,017.04
		For Class 52 Rating, Deduct	-7,797.26	
		For Class 54 Rating, Add	10,687.48	
		For Class 55 Rating, Add	15,916.89	
		For Class 56 Rating, Add	21,075.40	
40 05 19 00-2571	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	76,943.71	3,021.45
		For Class 52 Rating, Deduct	-7,960.23	
		For Class 54 Rating, Add	10,909.80	
		For Class 55 Rating, Add	16,247.44	
		For Class 56 Rating, Add	21,512.71	
40 05 19 00-2572	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	79,146.88	3,025.85
		For Class 52 Rating, Deduct	-8,201.85	
		For Class 54 Rating, Add	11,239.35	
		For Class 55 Rating, Add	16,737.41	
		For Class 56 Rating, Add	22,160.91	
40 05 19 00-2573	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	80,981.95	3,030.26
		For Class 52 Rating, Deduct	-8,402.97	
		For Class 54 Rating, Add	11,513.69	
		For Class 55 Rating, Add	17,145.31	
		For Class 56 Rating, Add	22,700.53	
40 05 19 00-2574	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	82,835.26	3,034.66
		For Class 52 Rating, Deduct	-8,606.10	
		For Class 54 Rating, Add	11,790.77	
		For Class 55 Rating, Add	17,557.27	
		For Class 56 Rating, Add	23,245.53	



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-2575	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		84,673.35	3,039.07
		For Class 52 Rating, Deduct		-8,807.56	
		For Class 54 Rating, Add		12,065.56	
		For Class 55 Rating, Add		17,965.83	
		For Class 56 Rating, Add		23,786.04	
40 05 19 00-2576	EA	42" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		86,529.71	3,043.47
		For Class 52 Rating, Deduct		-9,011.02	
		For Class 54 Rating, Add		12,343.10	
		For Class 55 Rating, Add		18,378.47	
		For Class 56 Rating, Add		24,331.94	
40 05 19 00-2577	EA	42" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		88,361.73	3,047.87
		For Class 52 Rating, Deduct		-9,211.81	
		For Class 54 Rating, Add		12,616.98	
		For Class 55 Rating, Add		18,785.69	
		For Class 56 Rating, Add		24,870.65	
40 05 19 00-2578 48" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2074)					
40 05 19 00-2579	EA	48" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		32,391.01	3,642.47
		For Class 52 Rating, Deduct		-2,955.93	
		For Class 54 Rating, Add		4,097.04	
		For Class 55 Rating, Add		6,124.93	
		For Class 56 Rating, Add		8,125.95	
40 05 19 00-2580	EA	48" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		35,007.92	3,646.88
		For Class 52 Rating, Deduct		-3,243.06	
		For Class 54 Rating, Add		4,488.66	
		For Class 55 Rating, Add		6,707.18	
		For Class 56 Rating, Add		8,896.21	
40 05 19 00-2581	EA	48" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		37,630.91	3,651.28
		For Class 52 Rating, Deduct		-3,530.85	
		For Class 54 Rating, Add		4,881.19	
		For Class 55 Rating, Add		7,290.78	
		For Class 56 Rating, Add		9,668.27	
40 05 19 00-2582	EA	48" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		40,284.34	3,655.69
		For Class 52 Rating, Deduct		-3,822.00	
		For Class 54 Rating, Add		5,278.28	
		For Class 55 Rating, Add		7,881.16	
		For Class 56 Rating, Add		10,449.30	
40 05 19 00-2583	EA	48" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		42,928.65	3,660.09
		For Class 52 Rating, Deduct		-4,112.14	
		For Class 54 Rating, Add		5,674.00	
		For Class 55 Rating, Add		8,469.51	
		For Class 56 Rating, Add		11,227.64	
40 05 19 00-2584	EA	48" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		45,579.02	3,664.50
		For Class 52 Rating, Deduct		-4,402.94	
		For Class 54 Rating, Add		6,070.64	
		For Class 55 Rating, Add		9,059.22	
		For Class 56 Rating, Add		12,007.77	
40 05 19 00-2585	EA	48" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		48,247.65	3,668.90
		For Class 52 Rating, Deduct		-4,695.76	
		For Class 54 Rating, Add		6,470.01	
		For Class 55 Rating, Add		9,653.00	
		For Class 56 Rating, Add		12,793.29	
40 05 19 00-2586	EA	48" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		50,910.21	3,673.31
		For Class 52 Rating, Deduct		-4,987.90	
		For Class 54 Rating, Add		6,868.48	
		For Class 55 Rating, Add		10,245.42	
		For Class 56 Rating, Add		13,577.02	
40 05 19 00-2587	EA	48" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		53,569.71	3,677.71
		For Class 52 Rating, Deduct		-5,279.72	
		For Class 54 Rating, Add		7,266.48	
		For Class 55 Rating, Add		10,837.16	
		For Class 56 Rating, Add		14,359.84	
40 05 19 00-2588	EA	48" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		56,256.59	3,682.12
		For Class 52 Rating, Deduct		-5,574.54	
		For Class 54 Rating, Add		7,668.59	
		For Class 55 Rating, Add		11,435.01	
		For Class 56 Rating, Add		15,150.74	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2589	EA	48" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		58,925.23		3,686.52
		For Class 52 Rating, Deduct		-5,867.35		
		For Class 54 Rating, Add		8,067.97		
		For Class 55 Rating, Add		12,028.78		
		For Class 56 Rating, Add		15,936.26		
40 05 19 00-2590	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		61,615.16		3,690.92
		For Class 52 Rating, Deduct		-6,162.51		
		For Class 54 Rating, Add		8,470.54		
		For Class 55 Rating, Add		12,627.31		
		For Class 56 Rating, Add		16,728.06		
40 05 19 00-2591	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		64,289.87		3,695.32
		For Class 52 Rating, Deduct		-6,456.00		
		For Class 54 Rating, Add		8,870.82		
		For Class 55 Rating, Add		13,222.44		
		For Class 56 Rating, Add		17,515.38		
40 05 19 00-2592	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		66,967.63		3,699.73
		For Class 52 Rating, Deduct		-6,749.82		
		For Class 54 Rating, Add		9,271.56		
		For Class 55 Rating, Add		13,818.26		
		For Class 56 Rating, Add		18,303.59		
40 05 19 00-2593	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		69,663.65		3,704.13
		For Class 52 Rating, Deduct		-7,045.65		
		For Class 54 Rating, Add		9,675.05		
		For Class 55 Rating, Add		14,418.14		
		For Class 56 Rating, Add		19,097.18		
40 05 19 00-2594	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		72,347.49		3,708.54
		For Class 52 Rating, Deduct		-7,340.13		
		For Class 54 Rating, Add		10,076.70		
		For Class 55 Rating, Add		15,015.31		
		For Class 56 Rating, Add		19,887.19		
40 05 19 00-2595	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		75,028.29		3,712.94
		For Class 52 Rating, Deduct		-7,634.29		
		For Class 54 Rating, Add		10,477.90		
		For Class 55 Rating, Add		15,611.80		
		For Class 56 Rating, Add		20,676.30		
40 05 19 00-2596	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		77,730.40		3,717.35
		For Class 52 Rating, Deduct		-7,930.79		
		For Class 54 Rating, Add		10,882.30		
		For Class 55 Rating, Add		16,213.04		
		For Class 56 Rating, Add		21,471.69		
40 05 19 00-2597	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		80,417.28		3,721.75
		For Class 52 Rating, Deduct		-8,225.61		
		For Class 54 Rating, Add		11,284.41		
		For Class 55 Rating, Add		16,810.89		
		For Class 56 Rating, Add		22,262.59		
40 05 19 00-2598	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		83,101.12		3,726.16
		For Class 52 Rating, Deduct		-8,520.10		
		For Class 54 Rating, Add		11,686.06		
		For Class 55 Rating, Add		17,408.06		
		For Class 56 Rating, Add		23,052.60		
40 05 19 00-2599	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		85,806.26		3,730.56
		For Class 52 Rating, Deduct		-8,816.93		
		For Class 54 Rating, Add		12,090.91		
		For Class 55 Rating, Add		18,009.98		
		For Class 56 Rating, Add		23,848.89		
40 05 19 00-2600	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		88,499.25		3,734.97
		For Class 52 Rating, Deduct		-9,112.42		
		For Class 54 Rating, Add		12,493.94		
		For Class 55 Rating, Add		18,609.18		
		For Class 56 Rating, Add		24,641.58		
40 05 19 00-2601	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		91,186.13		3,739.37
		For Class 52 Rating, Deduct		-9,407.25		
		For Class 54 Rating, Add		12,896.05		
		For Class 55 Rating, Add		19,207.03		
		For Class 56 Rating, Add		25,432.49		
40 05 19 00-2602	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		93,894.31		3,743.78
		For Class 52 Rating, Deduct		-9,704.41		
		For Class 54 Rating, Add		13,301.36		
		For Class 55 Rating, Add		19,809.63		
		For Class 56 Rating, Add		26,229.67		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2603	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	96,587.29	3,748.18
			For Class 52 Rating, Deduct	-9,999.90	
			For Class 54 Rating, Add	13,704.38	
			For Class 55 Rating, Add	20,408.83	
			For Class 56 Rating, Add	27,022.37	
40 05 19 00-2604	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	99,277.21	3,752.59
			For Class 52 Rating, Deduct	-10,295.06	
			For Class 54 Rating, Add	14,106.95	
			For Class 55 Rating, Add	21,007.36	
			For Class 56 Rating, Add	27,814.17	
40 05 19 00-2605	EA		48" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	101,988.43	3,756.99
			For Class 52 Rating, Deduct	-10,592.56	
			For Class 54 Rating, Add	14,512.71	
			For Class 55 Rating, Add	21,610.63	
			For Class 56 Rating, Add	28,612.25	
40 05 19 00-2606	EA		48" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	104,684.44	3,761.40
			For Class 52 Rating, Deduct	-10,888.39	
			For Class 54 Rating, Add	14,916.19	
			For Class 55 Rating, Add	22,210.51	
			For Class 56 Rating, Add	29,405.85	
40 05 19 00-2607	EA		48" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	107,064.07	3,765.79
			For Class 52 Rating, Deduct	-11,149.41	
			For Class 54 Rating, Add	15,272.22	
			For Class 55 Rating, Add	22,739.84	
			For Class 56 Rating, Add	30,106.11	
40 05 19 00-2608	EA		48" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	110,091.68	3,770.20
			For Class 52 Rating, Deduct	-11,481.72	
			For Class 54 Rating, Add	15,725.44	
			For Class 55 Rating, Add	23,413.67	
			For Class 56 Rating, Add	30,997.53	
40 05 19 00-2609	EA		48" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	112,784.65	3,774.60
			For Class 52 Rating, Deduct	-11,777.21	
			For Class 54 Rating, Add	16,128.46	
			For Class 55 Rating, Add	24,012.88	
			For Class 56 Rating, Add	31,790.22	
40 05 19 00-2610	EA		48" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	115,501.96	3,779.01
			For Class 52 Rating, Deduct	-12,075.38	
			For Class 54 Rating, Add	16,535.14	
			For Class 55 Rating, Add	24,617.51	
			For Class 56 Rating, Add	32,590.10	
40 05 19 00-2611	EA		48" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	118,194.94	3,783.41
			For Class 52 Rating, Deduct	-12,370.87	
			For Class 54 Rating, Add	16,938.16	
			For Class 55 Rating, Add	25,216.71	
			For Class 56 Rating, Add	33,382.80	
40 05 19 00-2612	EA		48" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	120,887.90	3,787.82
			For Class 52 Rating, Deduct	-12,666.37	
			For Class 54 Rating, Add	17,341.19	
			For Class 55 Rating, Add	25,815.92	
			For Class 56 Rating, Add	34,175.50	
40 05 19 00-2613	EA		48" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	123,608.25	3,792.22
			For Class 52 Rating, Deduct	-12,964.87	
			For Class 54 Rating, Add	17,748.32	
			For Class 55 Rating, Add	26,421.23	
			For Class 56 Rating, Add	34,976.27	
40 05 19 00-2614			Flanged End x Grooved End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-2615			4" Flanged End x Grooved End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-2616	EA		4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	849.93	201.55
			For Class 52 Rating, Deduct	-59.90	
			For Class 54 Rating, Add	85.35	
			For Class 55 Rating, Add	128.77	
			For Class 56 Rating, Add	171.64	
40 05 19 00-2617	EA		4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	970.88	205.07
			For Class 52 Rating, Deduct	-72.62	
			For Class 54 Rating, Add	102.75	
			For Class 55 Rating, Add	154.67	
			For Class 56 Rating, Add	205.94	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2618	EA	4" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,091.82		208.60	
		For Class 52 Rating, Deduct	-85.33			
		For Class 54 Rating, Add	120.16			
		For Class 55 Rating, Add	180.58			
		For Class 56 Rating, Add	240.23			
40 05 19 00-2619	EA	4" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,212.77		212.12	
		For Class 52 Rating, Deduct	-98.05			
		For Class 54 Rating, Add	137.56			
		For Class 55 Rating, Add	206.49			
		For Class 56 Rating, Add	274.53			
40 05 19 00-2620	EA	4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,333.71		215.64	
		For Class 52 Rating, Deduct	-110.77			
		For Class 54 Rating, Add	154.97			
		For Class 55 Rating, Add	232.40			
		For Class 56 Rating, Add	308.82			
40 05 19 00-2621	EA	4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,454.66		219.17	
		For Class 52 Rating, Deduct	-123.48			
		For Class 54 Rating, Add	172.37			
		For Class 55 Rating, Add	258.31			
		For Class 56 Rating, Add	343.12			
40 05 19 00-2622	EA	4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,575.59		222.69	
		For Class 52 Rating, Deduct	-136.20			
		For Class 54 Rating, Add	189.78			
		For Class 55 Rating, Add	284.21			
		For Class 56 Rating, Add	377.41			
40 05 19 00-2623	EA	4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,696.54		226.21	
		For Class 52 Rating, Deduct	-148.92			
		For Class 54 Rating, Add	207.18			
		For Class 55 Rating, Add	310.12			
		For Class 56 Rating, Add	411.71			
40 05 19 00-2624	EA	4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,817.48		229.74	
		For Class 52 Rating, Deduct	-161.63			
		For Class 54 Rating, Add	224.59			
		For Class 55 Rating, Add	336.03			
		For Class 56 Rating, Add	446.00			
40 05 19 00-2625	EA	4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,938.43		233.26	
		For Class 52 Rating, Deduct	-174.35			
		For Class 54 Rating, Add	241.99			
		For Class 55 Rating, Add	361.94			
		For Class 56 Rating, Add	480.30			
40 05 19 00-2626	EA	4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,059.38		236.78	
		For Class 52 Rating, Deduct	-187.07			
		For Class 54 Rating, Add	259.40			
		For Class 55 Rating, Add	387.85			
		For Class 56 Rating, Add	514.60			
40 05 19 00-2627	EA	4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,180.32		240.31	
		For Class 52 Rating, Deduct	-199.78			
		For Class 54 Rating, Add	276.80			
		For Class 55 Rating, Add	413.76			
		For Class 56 Rating, Add	548.89			
40 05 19 00-2628	EA	4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,301.26		243.83	
		For Class 52 Rating, Deduct	-212.50			
		For Class 54 Rating, Add	294.21			
		For Class 55 Rating, Add	439.66			
		For Class 56 Rating, Add	583.19			
40 05 19 00-2629	EA	4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,422.21		247.35	
		For Class 52 Rating, Deduct	-225.22			
		For Class 54 Rating, Add	311.61			
		For Class 55 Rating, Add	465.57			
		For Class 56 Rating, Add	617.48			
40 05 19 00-2630	EA	4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,543.15		250.88	
		For Class 52 Rating, Deduct	-237.93			
		For Class 54 Rating, Add	329.02			
		For Class 55 Rating, Add	491.48			
		For Class 56 Rating, Add	651.78			
40 05 19 00-2631	EA	4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,664.10		254.40	
		For Class 52 Rating, Deduct	-250.65			
		For Class 54 Rating, Add	346.42			
		For Class 55 Rating, Add	517.39			
		For Class 56 Rating, Add	686.08			



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2632	EA	4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,785.04	257.93
		For Class 52 Rating, Deduct	-263.37	
		For Class 54 Rating, Add	363.83	
		For Class 55 Rating, Add	543.29	
		For Class 56 Rating, Add	720.37	
40 05 19 00-2633	EA	4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,905.98	261.45
		For Class 52 Rating, Deduct	-276.08	
		For Class 54 Rating, Add	381.23	
		For Class 55 Rating, Add	569.20	
		For Class 56 Rating, Add	754.67	
40 05 19 00-2634	EA	4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,026.92	264.97
		For Class 52 Rating, Deduct	-288.80	
		For Class 54 Rating, Add	398.64	
		For Class 55 Rating, Add	595.11	
		For Class 56 Rating, Add	788.96	
40 05 19 00-2635	EA	4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,147.87	268.50
		For Class 52 Rating, Deduct	-301.52	
		For Class 54 Rating, Add	416.04	
		For Class 55 Rating, Add	621.02	
		For Class 56 Rating, Add	823.26	
40 05 19 00-2636	EA	4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,268.81	272.02
		For Class 52 Rating, Deduct	-314.23	
		For Class 54 Rating, Add	433.44	
		For Class 55 Rating, Add	646.93	
		For Class 56 Rating, Add	857.55	
40 05 19 00-2637	EA	4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,389.76	275.54
		For Class 52 Rating, Deduct	-326.95	
		For Class 54 Rating, Add	450.85	
		For Class 55 Rating, Add	672.84	
		For Class 56 Rating, Add	891.85	
40 05 19 00-2638	EA	4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,510.70	279.07
		For Class 52 Rating, Deduct	-339.67	
		For Class 54 Rating, Add	468.25	
		For Class 55 Rating, Add	698.74	
		For Class 56 Rating, Add	926.14	
40 05 19 00-2639	EA	4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,631.64	282.59
		For Class 52 Rating, Deduct	-352.38	
		For Class 54 Rating, Add	485.66	
		For Class 55 Rating, Add	724.65	
		For Class 56 Rating, Add	960.44	
40 05 19 00-2640	EA	4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,752.58	286.11
		For Class 52 Rating, Deduct	-365.10	
		For Class 54 Rating, Add	503.06	
		For Class 55 Rating, Add	750.56	
		For Class 56 Rating, Add	994.73	
40 05 19 00-2641	EA	4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,873.53	289.64
		For Class 52 Rating, Deduct	-377.82	
		For Class 54 Rating, Add	520.47	
		For Class 55 Rating, Add	776.47	
		For Class 56 Rating, Add	1,029.03	
40 05 19 00-2642	EA	4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,994.47	293.16
		For Class 52 Rating, Deduct	-390.53	
		For Class 54 Rating, Add	537.87	
		For Class 55 Rating, Add	802.37	
		For Class 56 Rating, Add	1,063.33	
40 05 19 00-2643	EA	4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,115.42	296.68
		For Class 52 Rating, Deduct	-403.25	
		For Class 54 Rating, Add	555.28	
		For Class 55 Rating, Add	828.28	
		For Class 56 Rating, Add	1,097.62	
40 05 19 00-2644	EA	4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,236.36	300.21
		For Class 52 Rating, Deduct	-415.97	
		For Class 54 Rating, Add	572.68	
		For Class 55 Rating, Add	854.19	
		For Class 56 Rating, Add	1,131.92	
40 05 19 00-2645	EA	4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,357.30	303.73
		For Class 52 Rating, Deduct	-428.68	
		For Class 54 Rating, Add	590.09	
		For Class 55 Rating, Add	880.10	
		For Class 56 Rating, Add	1,166.21	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2646	EA		4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,478.24	307.25
			For Class 52 Rating, Deduct	-441.40	
			For Class 54 Rating, Add	607.49	
			For Class 55 Rating, Add	906.01	
			For Class 56 Rating, Add	1,200.51	
40 05 19 00-2647	EA		4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,599.20	310.78
			For Class 52 Rating, Deduct	-454.12	
			For Class 54 Rating, Add	624.90	
			For Class 55 Rating, Add	931.92	
			For Class 56 Rating, Add	1,234.81	
40 05 19 00-2648	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,720.14	314.30
			For Class 52 Rating, Deduct	-466.83	
			For Class 54 Rating, Add	642.30	
			For Class 55 Rating, Add	957.82	
			For Class 56 Rating, Add	1,269.10	
40 05 19 00-2649	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,841.09	317.82
			For Class 52 Rating, Deduct	-479.55	
			For Class 54 Rating, Add	659.71	
			For Class 55 Rating, Add	983.73	
			For Class 56 Rating, Add	1,303.40	
40 05 19 00-2650	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,962.03	321.35
			For Class 52 Rating, Deduct	-492.27	
			For Class 54 Rating, Add	677.11	
			For Class 55 Rating, Add	1,009.64	
			For Class 56 Rating, Add	1,337.69	
40 05 19 00-2651	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,082.97	324.87
			For Class 52 Rating, Deduct	-504.98	
			For Class 54 Rating, Add	694.52	
			For Class 55 Rating, Add	1,035.55	
			For Class 56 Rating, Add	1,371.99	
40 05 19 00-2652	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,203.92	328.40
			For Class 52 Rating, Deduct	-517.70	
			For Class 54 Rating, Add	711.92	
			For Class 55 Rating, Add	1,061.46	
			For Class 56 Rating, Add	1,406.29	
40 05 19 00-2653	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,294.44	331.92
			For Class 52 Rating, Deduct	-527.07	
			For Class 54 Rating, Add	724.76	
			For Class 55 Rating, Add	1,080.58	
			For Class 56 Rating, Add	1,431.61	
40 05 19 00-2654	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,445.81	335.44
			For Class 52 Rating, Deduct	-543.13	
			For Class 54 Rating, Add	746.73	
			For Class 55 Rating, Add	1,113.27	
			For Class 56 Rating, Add	1,474.88	

**40 05 19 00-2655 6" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined
(P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)**

40 05 19 00-2656	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,099.31	253.69
			For Class 52 Rating, Deduct	-78.64	
			For Class 54 Rating, Add	111.85	
			For Class 55 Rating, Add	168.65	
			For Class 56 Rating, Add	224.74	
40 05 19 00-2657	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,238.50	257.22
			For Class 52 Rating, Deduct	-93.37	
			For Class 54 Rating, Add	131.99	
			For Class 55 Rating, Add	198.63	
			For Class 56 Rating, Add	264.42	
40 05 19 00-2658	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,377.70	260.74
			For Class 52 Rating, Deduct	-108.09	
			For Class 54 Rating, Add	152.14	
			For Class 55 Rating, Add	228.61	
			For Class 56 Rating, Add	304.10	
40 05 19 00-2659	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,516.91	264.26
			For Class 52 Rating, Deduct	-122.82	
			For Class 54 Rating, Add	172.28	
			For Class 55 Rating, Add	258.59	
			For Class 56 Rating, Add	343.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2660	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,656.11	267.79
			For Class 52 Rating, Deduct	-137.54	
			For Class 54 Rating, Add	192.42	
			For Class 55 Rating, Add	288.57	
			For Class 56 Rating, Add	383.46	
40 05 19 00-2661	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,795.31	271.31
			For Class 52 Rating, Deduct	-152.26	
			For Class 54 Rating, Add	212.57	
			For Class 55 Rating, Add	318.55	
			For Class 56 Rating, Add	423.14	
40 05 19 00-2662	EA		6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,934.50	274.83
			For Class 52 Rating, Deduct	-166.99	
			For Class 54 Rating, Add	232.71	
			For Class 55 Rating, Add	348.53	
			For Class 56 Rating, Add	462.82	
40 05 19 00-2663	EA		6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,073.70	278.36
			For Class 52 Rating, Deduct	-181.71	
			For Class 54 Rating, Add	252.85	
			For Class 55 Rating, Add	378.50	
			For Class 56 Rating, Add	502.51	
40 05 19 00-2664	EA		6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,212.89	281.88
			For Class 52 Rating, Deduct	-196.44	
			For Class 54 Rating, Add	272.99	
			For Class 55 Rating, Add	408.48	
			For Class 56 Rating, Add	542.18	
40 05 19 00-2665	EA		6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,352.09	285.40
			For Class 52 Rating, Deduct	-211.16	
			For Class 54 Rating, Add	293.14	
			For Class 55 Rating, Add	438.46	
			For Class 56 Rating, Add	581.86	
40 05 19 00-2666	EA		6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,491.29	288.93
			For Class 52 Rating, Deduct	-225.89	
			For Class 54 Rating, Add	313.28	
			For Class 55 Rating, Add	468.44	
			For Class 56 Rating, Add	621.55	
40 05 19 00-2667	EA		6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,630.48	292.45
			For Class 52 Rating, Deduct	-240.61	
			For Class 54 Rating, Add	333.42	
			For Class 55 Rating, Add	498.42	
			For Class 56 Rating, Add	661.23	
40 05 19 00-2668	EA		6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,769.68	295.97
			For Class 52 Rating, Deduct	-255.34	
			For Class 54 Rating, Add	353.57	
			For Class 55 Rating, Add	528.40	
			For Class 56 Rating, Add	700.91	
40 05 19 00-2669	EA		6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,908.88	299.50
			For Class 52 Rating, Deduct	-270.06	
			For Class 54 Rating, Add	373.71	
			For Class 55 Rating, Add	558.38	
			For Class 56 Rating, Add	740.59	
40 05 19 00-2670	EA		6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,048.08	303.02
			For Class 52 Rating, Deduct	-284.78	
			For Class 54 Rating, Add	393.85	
			For Class 55 Rating, Add	588.35	
			For Class 56 Rating, Add	780.27	
40 05 19 00-2671	EA		6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,187.27	306.55
			For Class 52 Rating, Deduct	-299.51	
			For Class 54 Rating, Add	413.99	
			For Class 55 Rating, Add	618.33	
			For Class 56 Rating, Add	819.95	
40 05 19 00-2672	EA		6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,326.47	310.07
			For Class 52 Rating, Deduct	-314.23	
			For Class 54 Rating, Add	434.14	
			For Class 55 Rating, Add	648.31	
			For Class 56 Rating, Add	859.63	
40 05 19 00-2673	EA		6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,465.66	313.59
			For Class 52 Rating, Deduct	-328.96	
			For Class 54 Rating, Add	454.28	
			For Class 55 Rating, Add	678.29	
			For Class 56 Rating, Add	899.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2674	EA	6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,604.86		317.12
		For Class 52 Rating, Deduct	-343.68		
		For Class 54 Rating, Add	474.42		
		For Class 55 Rating, Add	708.27		
		For Class 56 Rating, Add	938.99		
40 05 19 00-2675	EA	6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,744.06		320.64
		For Class 52 Rating, Deduct	-358.41		
		For Class 54 Rating, Add	494.57		
		For Class 55 Rating, Add	738.25		
		For Class 56 Rating, Add	978.67		
40 05 19 00-2676	EA	6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,883.26		324.16
		For Class 52 Rating, Deduct	-373.13		
		For Class 54 Rating, Add	514.71		
		For Class 55 Rating, Add	768.23		
		For Class 56 Rating, Add	1,018.35		
40 05 19 00-2677	EA	6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,022.46		327.69
		For Class 52 Rating, Deduct	-387.86		
		For Class 54 Rating, Add	534.85		
		For Class 55 Rating, Add	798.21		
		For Class 56 Rating, Add	1,058.03		
40 05 19 00-2678	EA	6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,161.65		331.21
		For Class 52 Rating, Deduct	-402.58		
		For Class 54 Rating, Add	554.99		
		For Class 55 Rating, Add	828.18		
		For Class 56 Rating, Add	1,097.71		
40 05 19 00-2679	EA	6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,300.84		334.73
		For Class 52 Rating, Deduct	-417.30		
		For Class 54 Rating, Add	575.14		
		For Class 55 Rating, Add	858.16		
		For Class 56 Rating, Add	1,137.39		
40 05 19 00-2680	EA	6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,440.04		338.26
		For Class 52 Rating, Deduct	-432.03		
		For Class 54 Rating, Add	595.28		
		For Class 55 Rating, Add	888.14		
		For Class 56 Rating, Add	1,177.07		
40 05 19 00-2681	EA	6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,579.25		341.78
		For Class 52 Rating, Deduct	-446.75		
		For Class 54 Rating, Add	615.42		
		For Class 55 Rating, Add	918.12		
		For Class 56 Rating, Add	1,216.75		
40 05 19 00-2682	EA	6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,718.45		345.30
		For Class 52 Rating, Deduct	-461.48		
		For Class 54 Rating, Add	635.57		
		For Class 55 Rating, Add	948.10		
		For Class 56 Rating, Add	1,256.43		
40 05 19 00-2683	EA	6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,857.65		348.83
		For Class 52 Rating, Deduct	-476.20		
		For Class 54 Rating, Add	655.71		
		For Class 55 Rating, Add	978.08		
		For Class 56 Rating, Add	1,296.11		
40 05 19 00-2684	EA	6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,996.85		352.35
		For Class 52 Rating, Deduct	-490.93		
		For Class 54 Rating, Add	675.85		
		For Class 55 Rating, Add	1,008.06		
		For Class 56 Rating, Add	1,335.80		
40 05 19 00-2685	EA	6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,136.03		355.87
		For Class 52 Rating, Deduct	-505.65		
		For Class 54 Rating, Add	695.99		
		For Class 55 Rating, Add	1,038.03		
		For Class 56 Rating, Add	1,375.47		
40 05 19 00-2686	EA	6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,275.23		359.40
		For Class 52 Rating, Deduct	-520.37		
		For Class 54 Rating, Add	716.14		
		For Class 55 Rating, Add	1,068.01		
		For Class 56 Rating, Add	1,415.15		
40 05 19 00-2687	EA	6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,414.43		362.92
		For Class 52 Rating, Deduct	-535.10		
		For Class 54 Rating, Add	736.28		
		For Class 55 Rating, Add	1,097.99		
		For Class 56 Rating, Add	1,454.84		



Process Interconnections			40
Common Work Results For Process Interconnections			40 05
Ductile Iron Process Pipe			40 05 19

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2688	EA	6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,553.63	366.44
		For Class 52 Rating, Deduct	-549.82	
		For Class 54 Rating, Add	756.42	
		For Class 55 Rating, Add	1,127.97	
		For Class 56 Rating, Add	1,494.52	
40 05 19 00-2689	EA	6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,692.83	369.97
		For Class 52 Rating, Deduct	-564.55	
		For Class 54 Rating, Add	776.57	
		For Class 55 Rating, Add	1,157.95	
		For Class 56 Rating, Add	1,534.20	
40 05 19 00-2690	EA	6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,832.02	373.49
		For Class 52 Rating, Deduct	-579.27	
		For Class 54 Rating, Add	796.71	
		For Class 55 Rating, Add	1,187.93	
		For Class 56 Rating, Add	1,573.88	
40 05 19 00-2691	EA	6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,971.22	377.02
		For Class 52 Rating, Deduct	-594.00	
		For Class 54 Rating, Add	816.85	
		For Class 55 Rating, Add	1,217.91	
		For Class 56 Rating, Add	1,613.56	
40 05 19 00-2692	EA	6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,110.41	380.54
		For Class 52 Rating, Deduct	-608.72	
		For Class 54 Rating, Add	836.99	
		For Class 55 Rating, Add	1,247.88	
		For Class 56 Rating, Add	1,653.24	
40 05 19 00-2693	EA	6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,249.61	384.06
		For Class 52 Rating, Deduct	-623.45	
		For Class 54 Rating, Add	857.14	
		For Class 55 Rating, Add	1,277.86	
		For Class 56 Rating, Add	1,692.92	
40 05 19 00-2694	EA	6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,388.81	387.60
		For Class 52 Rating, Deduct	-638.17	
		For Class 54 Rating, Add	877.28	
		For Class 55 Rating, Add	1,307.84	
		For Class 56 Rating, Add	1,732.60	
40 05 19 00-2695 8" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)				
40 05 19 00-2696	EA	8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,507.27	324.16
		For Class 52 Rating, Deduct	-111.77	
		For Class 54 Rating, Add	158.31	
		For Class 55 Rating, Add	238.38	
		For Class 56 Rating, Add	317.43	
40 05 19 00-2697	EA	8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,686.02	327.69
		For Class 52 Rating, Deduct	-130.85	
		For Class 54 Rating, Add	184.39	
		For Class 55 Rating, Add	277.18	
		For Class 56 Rating, Add	368.78	
40 05 19 00-2698	EA	8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,864.76	331.21
		For Class 52 Rating, Deduct	-149.92	
		For Class 54 Rating, Add	210.46	
		For Class 55 Rating, Add	315.98	
		For Class 56 Rating, Add	420.13	
40 05 19 00-2699	EA	8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,043.50	334.73
		For Class 52 Rating, Deduct	-169.00	
		For Class 54 Rating, Add	236.54	
		For Class 55 Rating, Add	354.77	
		For Class 56 Rating, Add	471.48	
40 05 19 00-2700	EA	8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,222.25	338.26
		For Class 52 Rating, Deduct	-188.07	
		For Class 54 Rating, Add	262.61	
		For Class 55 Rating, Add	393.57	
		For Class 56 Rating, Add	522.82	
40 05 19 00-2701	EA	8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,401.01	341.78
		For Class 52 Rating, Deduct	-207.15	
		For Class 54 Rating, Add	288.69	
		For Class 55 Rating, Add	432.37	
		For Class 56 Rating, Add	574.17	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2702	EA	8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,579.75		345.30	
		For Class 52 Rating, Deduct	-226.22			
		For Class 54 Rating, Add	314.76			
		For Class 55 Rating, Add	471.17			
		For Class 56 Rating, Add	625.52			
40 05 19 00-2703	EA	8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,758.50		348.83	
		For Class 52 Rating, Deduct	-245.30			
		For Class 54 Rating, Add	340.84			
		For Class 55 Rating, Add	509.97			
		For Class 56 Rating, Add	676.87			
40 05 19 00-2704	EA	8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,937.25		352.35	
		For Class 52 Rating, Deduct	-264.37			
		For Class 54 Rating, Add	366.91			
		For Class 55 Rating, Add	548.76			
		For Class 56 Rating, Add	728.21			
40 05 19 00-2705	EA	8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,115.99		355.87	
		For Class 52 Rating, Deduct	-283.45			
		For Class 54 Rating, Add	392.99			
		For Class 55 Rating, Add	587.56			
		For Class 56 Rating, Add	779.56			
40 05 19 00-2706	EA	8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,294.73		359.40	
		For Class 52 Rating, Deduct	-302.52			
		For Class 54 Rating, Add	419.06			
		For Class 55 Rating, Add	626.36			
		For Class 56 Rating, Add	830.91			
40 05 19 00-2707	EA	8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,473.48		362.92	
		For Class 52 Rating, Deduct	-321.59			
		For Class 54 Rating, Add	445.14			
		For Class 55 Rating, Add	665.16			
		For Class 56 Rating, Add	882.26			
40 05 19 00-2708	EA	8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,652.23		366.44	
		For Class 52 Rating, Deduct	-340.67			
		For Class 54 Rating, Add	471.21			
		For Class 55 Rating, Add	703.96			
		For Class 56 Rating, Add	933.60			
40 05 19 00-2709	EA	8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,830.98		369.97	
		For Class 52 Rating, Deduct	-359.75			
		For Class 54 Rating, Add	497.29			
		For Class 55 Rating, Add	742.76			
		For Class 56 Rating, Add	984.95			
40 05 19 00-2710	EA	8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,009.72		373.49	
		For Class 52 Rating, Deduct	-378.82			
		For Class 54 Rating, Add	523.36			
		For Class 55 Rating, Add	781.55			
		For Class 56 Rating, Add	1,036.30			
40 05 19 00-2711	EA	8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,188.46		377.02	
		For Class 52 Rating, Deduct	-397.89			
		For Class 54 Rating, Add	549.44			
		For Class 55 Rating, Add	820.35			
		For Class 56 Rating, Add	1,087.64			
40 05 19 00-2712	EA	8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,367.21		380.54	
		For Class 52 Rating, Deduct	-416.97			
		For Class 54 Rating, Add	575.51			
		For Class 55 Rating, Add	859.15			
		For Class 56 Rating, Add	1,138.99			
40 05 19 00-2713	EA	8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,545.96		384.06	
		For Class 52 Rating, Deduct	-436.04			
		For Class 54 Rating, Add	601.59			
		For Class 55 Rating, Add	897.95			
		For Class 56 Rating, Add	1,190.34			
40 05 19 00-2714	EA	8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,724.71		387.60	
		For Class 52 Rating, Deduct	-455.12			
		For Class 54 Rating, Add	627.66			
		For Class 55 Rating, Add	936.75			
		For Class 56 Rating, Add	1,241.69			
40 05 19 00-2715	EA	8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,903.45		391.12	
		For Class 52 Rating, Deduct	-474.19			
		For Class 54 Rating, Add	653.74			
		For Class 55 Rating, Add	975.54			
		For Class 56 Rating, Add	1,293.03			



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2716	EA	8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,082.19	394.64
		For Class 52 Rating, Deduct	-493.27	
		For Class 54 Rating, Add	679.81	
		For Class 55 Rating, Add	1,014.34	
		For Class 56 Rating, Add	1,344.38	
40 05 19 00-2717	EA	8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,260.94	398.17
		For Class 52 Rating, Deduct	-512.34	
		For Class 54 Rating, Add	705.89	
		For Class 55 Rating, Add	1,053.14	
		For Class 56 Rating, Add	1,395.73	
40 05 19 00-2718	EA	8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,439.69	401.69
		For Class 52 Rating, Deduct	-531.42	
		For Class 54 Rating, Add	731.97	
		For Class 55 Rating, Add	1,091.94	
		For Class 56 Rating, Add	1,447.08	
40 05 19 00-2719	EA	8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,618.43	405.21
		For Class 52 Rating, Deduct	-550.49	
		For Class 54 Rating, Add	758.04	
		For Class 55 Rating, Add	1,130.73	
		For Class 56 Rating, Add	1,498.42	
40 05 19 00-2720	EA	8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,797.18	408.74
		For Class 52 Rating, Deduct	-569.57	
		For Class 54 Rating, Add	784.11	
		For Class 55 Rating, Add	1,169.53	
		For Class 56 Rating, Add	1,549.77	
40 05 19 00-2721	EA	8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,975.93	412.26
		For Class 52 Rating, Deduct	-588.64	
		For Class 54 Rating, Add	810.19	
		For Class 55 Rating, Add	1,208.33	
		For Class 56 Rating, Add	1,601.12	
40 05 19 00-2722	EA	8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,154.68	415.78
		For Class 52 Rating, Deduct	-607.72	
		For Class 54 Rating, Add	836.27	
		For Class 55 Rating, Add	1,247.13	
		For Class 56 Rating, Add	1,652.47	
40 05 19 00-2723	EA	8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,333.43	419.31
		For Class 52 Rating, Deduct	-626.79	
		For Class 54 Rating, Add	862.34	
		For Class 55 Rating, Add	1,285.93	
		For Class 56 Rating, Add	1,703.82	
40 05 19 00-2724	EA	8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,512.17	422.83
		For Class 52 Rating, Deduct	-645.87	
		For Class 54 Rating, Add	888.42	
		For Class 55 Rating, Add	1,324.72	
		For Class 56 Rating, Add	1,755.16	
40 05 19 00-2725	EA	8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,690.92	426.35
		For Class 52 Rating, Deduct	-664.94	
		For Class 54 Rating, Add	914.49	
		For Class 55 Rating, Add	1,363.52	
		For Class 56 Rating, Add	1,806.51	
40 05 19 00-2726	EA	8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,869.67	429.88
		For Class 52 Rating, Deduct	-684.02	
		For Class 54 Rating, Add	940.57	
		For Class 55 Rating, Add	1,402.32	
		For Class 56 Rating, Add	1,857.86	
40 05 19 00-2727	EA	8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,048.41	433.40
		For Class 52 Rating, Deduct	-703.09	
		For Class 54 Rating, Add	966.64	
		For Class 55 Rating, Add	1,441.12	
		For Class 56 Rating, Add	1,909.21	
40 05 19 00-2728	EA	8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,227.15	436.93
		For Class 52 Rating, Deduct	-722.17	
		For Class 54 Rating, Add	992.72	
		For Class 55 Rating, Add	1,479.92	
		For Class 56 Rating, Add	1,960.55	
40 05 19 00-2729	EA	8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,405.90	440.45
		For Class 52 Rating, Deduct	-741.24	
		For Class 54 Rating, Add	1,018.79	
		For Class 55 Rating, Add	1,518.72	
		For Class 56 Rating, Add	2,011.90	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2730	EA	8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,584.65		443.97
		For Class 52 Rating, Deduct	-760.32		
		For Class 54 Rating, Add	1,044.87		
		For Class 55 Rating, Add	1,557.51		
		For Class 56 Rating, Add	2,063.25		
40 05 19 00-2731	EA	8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,763.40		447.50
		For Class 52 Rating, Deduct	-779.39		
		For Class 54 Rating, Add	1,070.94		
		For Class 55 Rating, Add	1,596.31		
		For Class 56 Rating, Add	2,114.60		
40 05 19 00-2732	EA	8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,942.14		451.02
		For Class 52 Rating, Deduct	-798.47		
		For Class 54 Rating, Add	1,097.02		
		For Class 55 Rating, Add	1,635.11		
		For Class 56 Rating, Add	2,165.94		
40 05 19 00-2733	EA	8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,120.88		454.54
		For Class 52 Rating, Deduct	-817.54		
		For Class 54 Rating, Add	1,123.09		
		For Class 55 Rating, Add	1,673.91		
		For Class 56 Rating, Add	2,217.29		
40 05 19 00-2734	EA	8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,299.63		458.07
		For Class 52 Rating, Deduct	-836.62		
		For Class 54 Rating, Add	1,149.17		
		For Class 55 Rating, Add	1,712.71		
		For Class 56 Rating, Add	2,268.64		
40 05 19 00-2735 10" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2736	EA	10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,893.92		394.64
		For Class 52 Rating, Deduct	-142.56		
		For Class 54 Rating, Add	201.57		
		For Class 55 Rating, Add	303.36		
		For Class 56 Rating, Add	403.84		
40 05 19 00-2737	EA	10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,124.39		398.17
		For Class 52 Rating, Deduct	-167.32		
		For Class 54 Rating, Add	235.41		
		For Class 55 Rating, Add	353.69		
		For Class 56 Rating, Add	470.45		
40 05 19 00-2738	EA	10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,354.86		401.69
		For Class 52 Rating, Deduct	-192.09		
		For Class 54 Rating, Add	269.24		
		For Class 55 Rating, Add	404.02		
		For Class 56 Rating, Add	537.05		
40 05 19 00-2739	EA	10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,585.32		405.21
		For Class 52 Rating, Deduct	-216.85		
		For Class 54 Rating, Add	303.07		
		For Class 55 Rating, Add	454.35		
		For Class 56 Rating, Add	603.66		
40 05 19 00-2740	EA	10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,815.79		408.74
		For Class 52 Rating, Deduct	-241.62		
		For Class 54 Rating, Add	336.91		
		For Class 55 Rating, Add	504.68		
		For Class 56 Rating, Add	670.26		
40 05 19 00-2741	EA	10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,046.25		412.26
		For Class 52 Rating, Deduct	-266.38		
		For Class 54 Rating, Add	370.74		
		For Class 55 Rating, Add	555.01		
		For Class 56 Rating, Add	736.86		
40 05 19 00-2742	EA	10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,276.72		415.78
		For Class 52 Rating, Deduct	-291.14		
		For Class 54 Rating, Add	404.57		
		For Class 55 Rating, Add	605.34		
		For Class 56 Rating, Add	803.47		
40 05 19 00-2743	EA	10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,507.18		419.31
		For Class 52 Rating, Deduct	-315.91		
		For Class 54 Rating, Add	438.40		
		For Class 55 Rating, Add	655.67		
		For Class 56 Rating, Add	870.07		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2744	EA	10" Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,737.65	422.83
		For Class 52 Rating, Deduct	-340.67	
		For Class 54 Rating, Add	472.24	
		For Class 55 Rating, Add	706.01	
		For Class 56 Rating, Add	936.68	
40 05 19 00-2745	EA	10" Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,968.12	426.35
		For Class 52 Rating, Deduct	-365.43	
		For Class 54 Rating, Add	506.07	
		For Class 55 Rating, Add	756.34	
		For Class 56 Rating, Add	1,003.28	
40 05 19 00-2746	EA	10" Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,198.58	429.88
		For Class 52 Rating, Deduct	-390.20	
		For Class 54 Rating, Add	539.90	
		For Class 55 Rating, Add	806.67	
		For Class 56 Rating, Add	1,069.89	
40 05 19 00-2747	EA	10" Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,429.04	433.40
		For Class 52 Rating, Deduct	-414.96	
		For Class 54 Rating, Add	573.74	
		For Class 55 Rating, Add	857.00	
		For Class 56 Rating, Add	1,136.49	
40 05 19 00-2748	EA	10" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,659.50	436.93
		For Class 52 Rating, Deduct	-439.73	
		For Class 54 Rating, Add	607.57	
		For Class 55 Rating, Add	907.33	
		For Class 56 Rating, Add	1,203.09	
40 05 19 00-2749	EA	10" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,889.97	440.45
		For Class 52 Rating, Deduct	-464.49	
		For Class 54 Rating, Add	641.40	
		For Class 55 Rating, Add	957.66	
		For Class 56 Rating, Add	1,269.70	
40 05 19 00-2750	EA	10" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,120.43	443.97
		For Class 52 Rating, Deduct	-489.25	
		For Class 54 Rating, Add	675.23	
		For Class 55 Rating, Add	1,007.99	
		For Class 56 Rating, Add	1,336.30	
40 05 19 00-2751	EA	10" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,350.90	447.50
		For Class 52 Rating, Deduct	-514.02	
		For Class 54 Rating, Add	709.07	
		For Class 55 Rating, Add	1,058.32	
		For Class 56 Rating, Add	1,402.91	
40 05 19 00-2752	EA	10" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,581.37	451.02
		For Class 52 Rating, Deduct	-538.78	
		For Class 54 Rating, Add	742.90	
		For Class 55 Rating, Add	1,108.66	
		For Class 56 Rating, Add	1,469.51	
40 05 19 00-2753	EA	10" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,811.82	454.54
		For Class 52 Rating, Deduct	-563.54	
		For Class 54 Rating, Add	776.73	
		For Class 55 Rating, Add	1,158.99	
		For Class 56 Rating, Add	1,536.12	
40 05 19 00-2754	EA	10" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,042.29	458.07
		For Class 52 Rating, Deduct	-588.31	
		For Class 54 Rating, Add	810.57	
		For Class 55 Rating, Add	1,209.32	
		For Class 56 Rating, Add	1,602.72	
40 05 19 00-2755	EA	10" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,272.75	461.59
		For Class 52 Rating, Deduct	-613.07	
		For Class 54 Rating, Add	844.40	
		For Class 55 Rating, Add	1,259.65	
		For Class 56 Rating, Add	1,669.32	
40 05 19 00-2756	EA	10" Flanged x Grooved (F&G), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,503.22	465.11
		For Class 52 Rating, Deduct	-637.84	
		For Class 54 Rating, Add	878.23	
		For Class 55 Rating, Add	1,309.98	
		For Class 56 Rating, Add	1,735.93	
40 05 19 00-2757	EA	10" Flanged x Grooved (F&G), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,733.69	468.64
		For Class 52 Rating, Deduct	-662.60	
		For Class 54 Rating, Add	912.07	
		For Class 55 Rating, Add	1,360.31	
		For Class 56 Rating, Add	1,802.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-2758	EA	10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,964.15		472.16
		For Class 52 Rating, Deduct	-687.36		
		For Class 54 Rating, Add	945.90		
		For Class 55 Rating, Add	1,410.64		
		For Class 56 Rating, Add	1,869.14		
40 05 19 00-2759	EA	10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,194.61		475.68
		For Class 52 Rating, Deduct	-712.13		
		For Class 54 Rating, Add	979.73		
		For Class 55 Rating, Add	1,460.97		
		For Class 56 Rating, Add	1,935.74		
40 05 19 00-2760	EA	10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,425.07		479.21
		For Class 52 Rating, Deduct	-736.89		
		For Class 54 Rating, Add	1,013.56		
		For Class 55 Rating, Add	1,511.30		
		For Class 56 Rating, Add	2,002.35		
40 05 19 00-2761	EA	10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,655.54		482.73
		For Class 52 Rating, Deduct	-761.66		
		For Class 54 Rating, Add	1,047.40		
		For Class 55 Rating, Add	1,561.64		
		For Class 56 Rating, Add	2,068.95		
40 05 19 00-2762	EA	10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,886.00		486.25
		For Class 52 Rating, Deduct	-786.42		
		For Class 54 Rating, Add	1,081.23		
		For Class 55 Rating, Add	1,611.97		
		For Class 56 Rating, Add	2,135.55		
40 05 19 00-2763	EA	10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,116.47		489.78
		For Class 52 Rating, Deduct	-811.18		
		For Class 54 Rating, Add	1,115.06		
		For Class 55 Rating, Add	1,662.30		
		For Class 56 Rating, Add	2,202.16		
40 05 19 00-2764	EA	10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,346.95		493.30
		For Class 52 Rating, Deduct	-835.95		
		For Class 54 Rating, Add	1,148.90		
		For Class 55 Rating, Add	1,712.63		
		For Class 56 Rating, Add	2,268.77		
40 05 19 00-2765	EA	10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,577.40		496.82
		For Class 52 Rating, Deduct	-860.71		
		For Class 54 Rating, Add	1,182.73		
		For Class 55 Rating, Add	1,762.96		
		For Class 56 Rating, Add	2,335.37		
40 05 19 00-2766	EA	10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,807.87		500.35
		For Class 52 Rating, Deduct	-885.47		
		For Class 54 Rating, Add	1,216.56		
		For Class 55 Rating, Add	1,813.29		
		For Class 56 Rating, Add	2,401.97		
40 05 19 00-2767	EA	10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,038.33		503.87
		For Class 52 Rating, Deduct	-910.24		
		For Class 54 Rating, Add	1,250.39		
		For Class 55 Rating, Add	1,863.62		
		For Class 56 Rating, Add	2,468.58		
40 05 19 00-2768	EA	10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,268.80		507.40
		For Class 52 Rating, Deduct	-935.00		
		For Class 54 Rating, Add	1,284.23		
		For Class 55 Rating, Add	1,913.96		
		For Class 56 Rating, Add	2,535.18		
40 05 19 00-2769	EA	10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,499.26		510.92
		For Class 52 Rating, Deduct	-959.77		
		For Class 54 Rating, Add	1,318.06		
		For Class 55 Rating, Add	1,964.29		
		For Class 56 Rating, Add	2,601.78		
40 05 19 00-2770	EA	10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,729.72		514.44
		For Class 52 Rating, Deduct	-984.53		
		For Class 54 Rating, Add	1,351.89		
		For Class 55 Rating, Add	2,014.62		
		For Class 56 Rating, Add	2,668.39		
40 05 19 00-2771	EA	10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,960.19		517.97
		For Class 52 Rating, Deduct	-1,009.29		
		For Class 54 Rating, Add	1,385.73		
		For Class 55 Rating, Add	2,064.95		
		For Class 56 Rating, Add	2,735.00		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2772	EA	10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,190.65	521.49
		For Class 52 Rating, Deduct	-1,034.06	
		For Class 54 Rating, Add	1,419.56	
		For Class 55 Rating, Add	2,115.28	
		For Class 56 Rating, Add	2,801.60	
40 05 19 00-2773	EA	10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,421.12	525.01
		For Class 52 Rating, Deduct	-1,058.82	
		For Class 54 Rating, Add	1,453.39	
		For Class 55 Rating, Add	2,165.61	
		For Class 56 Rating, Add	2,868.20	
40 05 19 00-2774	EA	10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,651.58	528.54
		For Class 52 Rating, Deduct	-1,083.58	
		For Class 54 Rating, Add	1,487.23	
		For Class 55 Rating, Add	2,215.94	
		For Class 56 Rating, Add	2,934.81	
40 05 19 00-2775 12" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)				
40 05 19 00-2776	EA	12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,451.08	493.30
		For Class 52 Rating, Deduct	-187.40	
		For Class 54 Rating, Add	264.52	
		For Class 55 Rating, Add	397.85	
		For Class 56 Rating, Add	529.48	
40 05 19 00-2777	EA	12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,736.30	496.82
		For Class 52 Rating, Deduct	-218.19	
		For Class 54 Rating, Add	306.56	
		For Class 55 Rating, Add	460.40	
		For Class 56 Rating, Add	612.24	
40 05 19 00-2778	EA	12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,021.53	500.35
		For Class 52 Rating, Deduct	-248.98	
		For Class 54 Rating, Add	348.61	
		For Class 55 Rating, Add	522.94	
		For Class 56 Rating, Add	695.00	
40 05 19 00-2779	EA	12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,306.75	503.87
		For Class 52 Rating, Deduct	-279.76	
		For Class 54 Rating, Add	390.66	
		For Class 55 Rating, Add	585.48	
		For Class 56 Rating, Add	777.76	
40 05 19 00-2780	EA	12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,591.98	507.40
		For Class 52 Rating, Deduct	-310.55	
		For Class 54 Rating, Add	432.71	
		For Class 55 Rating, Add	648.02	
		For Class 56 Rating, Add	860.52	
40 05 19 00-2781	EA	12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,877.20	510.92
		For Class 52 Rating, Deduct	-341.34	
		For Class 54 Rating, Add	474.75	
		For Class 55 Rating, Add	710.57	
		For Class 56 Rating, Add	943.28	
40 05 19 00-2782	EA	12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,162.42	514.44
		For Class 52 Rating, Deduct	-372.13	
		For Class 54 Rating, Add	516.80	
		For Class 55 Rating, Add	773.11	
		For Class 56 Rating, Add	1,026.04	
40 05 19 00-2783	EA	12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,447.65	517.97
		For Class 52 Rating, Deduct	-402.91	
		For Class 54 Rating, Add	558.85	
		For Class 55 Rating, Add	835.65	
		For Class 56 Rating, Add	1,108.80	
40 05 19 00-2784	EA	12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,732.87	521.49
		For Class 52 Rating, Deduct	-433.70	
		For Class 54 Rating, Add	600.89	
		For Class 55 Rating, Add	898.19	
		For Class 56 Rating, Add	1,191.55	
40 05 19 00-2785	EA	12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,018.10	525.01
		For Class 52 Rating, Deduct	-464.49	
		For Class 54 Rating, Add	642.94	
		For Class 55 Rating, Add	960.74	
		For Class 56 Rating, Add	1,274.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
40 05 19 00-2786	EA	12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,303.33		528.54	
		For Class 52 Rating, Deduct	-495.28			
		For Class 54 Rating, Add	684.99			
		For Class 55 Rating, Add	1,023.28			
		For Class 56 Rating, Add	1,357.07			
40 05 19 00-2787	EA	12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,588.55		532.06	
		For Class 52 Rating, Deduct	-526.06			
		For Class 54 Rating, Add	727.03			
		For Class 55 Rating, Add	1,085.82			
		For Class 56 Rating, Add	1,439.83			
40 05 19 00-2788	EA	12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,873.77		535.58	
		For Class 52 Rating, Deduct	-556.85			
		For Class 54 Rating, Add	769.08			
		For Class 55 Rating, Add	1,148.37			
		For Class 56 Rating, Add	1,522.59			
40 05 19 00-2789	EA	12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,158.99		539.11	
		For Class 52 Rating, Deduct	-587.64			
		For Class 54 Rating, Add	811.13			
		For Class 55 Rating, Add	1,210.91			
		For Class 56 Rating, Add	1,605.35			
40 05 19 00-2790	EA	12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,444.22		542.63	
		For Class 52 Rating, Deduct	-618.43			
		For Class 54 Rating, Add	853.17			
		For Class 55 Rating, Add	1,273.45			
		For Class 56 Rating, Add	1,688.11			
40 05 19 00-2791	EA	12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,729.45		546.15	
		For Class 52 Rating, Deduct	-649.21			
		For Class 54 Rating, Add	895.22			
		For Class 55 Rating, Add	1,335.99			
		For Class 56 Rating, Add	1,770.87			
40 05 19 00-2792	EA	12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,014.67		549.68	
		For Class 52 Rating, Deduct	-680.00			
		For Class 54 Rating, Add	937.27			
		For Class 55 Rating, Add	1,398.54			
		For Class 56 Rating, Add	1,853.62			
40 05 19 00-2793	EA	12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,299.90		553.20	
		For Class 52 Rating, Deduct	-710.79			
		For Class 54 Rating, Add	979.32			
		For Class 55 Rating, Add	1,461.08			
		For Class 56 Rating, Add	1,936.38			
40 05 19 00-2794	EA	12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,585.11		556.72	
		For Class 52 Rating, Deduct	-741.58			
		For Class 54 Rating, Add	1,021.36			
		For Class 55 Rating, Add	1,523.62			
		For Class 56 Rating, Add	2,019.14			
40 05 19 00-2795	EA	12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,870.34		560.25	
		For Class 52 Rating, Deduct	-772.36			
		For Class 54 Rating, Add	1,063.41			
		For Class 55 Rating, Add	1,586.16			
		For Class 56 Rating, Add	2,101.90			
40 05 19 00-2796	EA	12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,155.57		563.77	
		For Class 52 Rating, Deduct	-803.15			
		For Class 54 Rating, Add	1,105.46			
		For Class 55 Rating, Add	1,648.71			
		For Class 56 Rating, Add	2,184.66			
40 05 19 00-2797	EA	12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,440.80		567.29	
		For Class 52 Rating, Deduct	-833.94			
		For Class 54 Rating, Add	1,147.50			
		For Class 55 Rating, Add	1,711.25			
		For Class 56 Rating, Add	2,267.42			
40 05 19 00-2798	EA	12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,726.03		570.82	
		For Class 52 Rating, Deduct	-864.73			
		For Class 54 Rating, Add	1,189.55			
		For Class 55 Rating, Add	1,773.79			
		For Class 56 Rating, Add	2,350.17			
40 05 19 00-2799	EA	12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,011.25		574.34	
		For Class 52 Rating, Deduct	-895.51			
		For Class 54 Rating, Add	1,231.60			
		For Class 55 Rating, Add	1,836.33			
		For Class 56 Rating, Add	2,432.93			



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-2800	EA	12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,296.47		577.87
		For Class 52 Rating, Deduct	-926.30		
		For Class 54 Rating, Add	1,273.64		
		For Class 55 Rating, Add	1,898.88		
		For Class 56 Rating, Add	2,515.69		
40 05 19 00-2801	EA	12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,581.70		581.39
		For Class 52 Rating, Deduct	-957.09		
		For Class 54 Rating, Add	1,315.69		
		For Class 55 Rating, Add	1,961.42		
		For Class 56 Rating, Add	2,598.45		
40 05 19 00-2802	EA	12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	9,866.92		584.91
		For Class 52 Rating, Deduct	-987.88		
		For Class 54 Rating, Add	1,357.74		
		For Class 55 Rating, Add	2,023.96		
		For Class 56 Rating, Add	2,681.21		
40 05 19 00-2803	EA	12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,152.15		588.44
		For Class 52 Rating, Deduct	-1,018.66		
		For Class 54 Rating, Add	1,399.79		
		For Class 55 Rating, Add	2,086.51		
		For Class 56 Rating, Add	2,763.97		
40 05 19 00-2804	EA	12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,437.37		591.96
		For Class 52 Rating, Deduct	-1,049.45		
		For Class 54 Rating, Add	1,441.83		
		For Class 55 Rating, Add	2,149.05		
		For Class 56 Rating, Add	2,846.72		
40 05 19 00-2805	EA	12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	10,722.59		595.48
		For Class 52 Rating, Deduct	-1,080.24		
		For Class 54 Rating, Add	1,483.88		
		For Class 55 Rating, Add	2,211.59		
		For Class 56 Rating, Add	2,929.48		
40 05 19 00-2806	EA	12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,007.82		599.01
		For Class 52 Rating, Deduct	-1,111.03		
		For Class 54 Rating, Add	1,525.93		
		For Class 55 Rating, Add	2,274.14		
		For Class 56 Rating, Add	3,012.24		
40 05 19 00-2807	EA	12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,293.04		602.53
		For Class 52 Rating, Deduct	-1,141.81		
		For Class 54 Rating, Add	1,567.97		
		For Class 55 Rating, Add	2,336.68		
		For Class 56 Rating, Add	3,095.00		
40 05 19 00-2808	EA	12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,578.27		606.05
		For Class 52 Rating, Deduct	-1,172.60		
		For Class 54 Rating, Add	1,610.02		
		For Class 55 Rating, Add	2,399.22		
		For Class 56 Rating, Add	3,177.76		
40 05 19 00-2809	EA	12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	11,863.50		609.58
		For Class 52 Rating, Deduct	-1,203.39		
		For Class 54 Rating, Add	1,652.07		
		For Class 55 Rating, Add	2,461.76		
		For Class 56 Rating, Add	3,260.52		
40 05 19 00-2810	EA	12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,148.72		613.10
		For Class 52 Rating, Deduct	-1,234.18		
		For Class 54 Rating, Add	1,694.11		
		For Class 55 Rating, Add	2,524.31		
		For Class 56 Rating, Add	3,343.28		
40 05 19 00-2811	EA	12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,433.94		616.62
		For Class 52 Rating, Deduct	-1,264.96		
		For Class 54 Rating, Add	1,736.16		
		For Class 55 Rating, Add	2,586.85		
		For Class 56 Rating, Add	3,426.04		
40 05 19 00-2812	EA	12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	12,719.16		620.15
		For Class 52 Rating, Deduct	-1,295.75		
		For Class 54 Rating, Add	1,778.21		
		For Class 55 Rating, Add	2,649.39		
		For Class 56 Rating, Add	3,508.79		
40 05 19 00-2813	EA	12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe	13,004.39		623.67
		For Class 52 Rating, Deduct	-1,326.54		
		For Class 54 Rating, Add	1,820.26		
		For Class 55 Rating, Add	2,711.93		
		For Class 56 Rating, Add	3,591.55		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2814	EA	12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		13,289.62	627.19
		For Class 52 Rating, Deduct		-1,357.33	
		For Class 54 Rating, Add		1,862.30	
		For Class 55 Rating, Add		2,774.48	
		For Class 56 Rating, Add		3,674.31	
40 05 19 00-2815 14" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2816	EA	14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,409.80	591.96
		For Class 52 Rating, Deduct		-276.42	
		For Class 54 Rating, Add		387.70	
		For Class 55 Rating, Add		581.90	
		For Class 56 Rating, Add		773.59	
40 05 19 00-2817	EA	14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		3,755.86	595.48
		For Class 52 Rating, Deduct		-313.90	
		For Class 54 Rating, Add		438.87	
		For Class 55 Rating, Add		658.01	
		For Class 56 Rating, Add		874.30	
40 05 19 00-2818	EA	14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,101.93	599.01
		For Class 52 Rating, Deduct		-351.38	
		For Class 54 Rating, Add		490.04	
		For Class 55 Rating, Add		734.12	
		For Class 56 Rating, Add		975.01	
40 05 19 00-2819	EA	14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,448.00	602.53
		For Class 52 Rating, Deduct		-388.86	
		For Class 54 Rating, Add		541.22	
		For Class 55 Rating, Add		810.23	
		For Class 56 Rating, Add		1,075.71	
40 05 19 00-2820	EA	14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		4,794.07	606.05
		For Class 52 Rating, Deduct		-426.34	
		For Class 54 Rating, Add		592.39	
		For Class 55 Rating, Add		886.34	
		For Class 56 Rating, Add		1,176.42	
40 05 19 00-2821	EA	14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,140.14	609.58
		For Class 52 Rating, Deduct		-463.82	
		For Class 54 Rating, Add		643.56	
		For Class 55 Rating, Add		962.45	
		For Class 56 Rating, Add		1,277.13	
40 05 19 00-2822	EA	14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,486.22	613.10
		For Class 52 Rating, Deduct		-501.30	
		For Class 54 Rating, Add		694.74	
		For Class 55 Rating, Add		1,038.57	
		For Class 56 Rating, Add		1,377.84	
40 05 19 00-2823	EA	14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		5,832.28	616.62
		For Class 52 Rating, Deduct		-538.78	
		For Class 54 Rating, Add		745.91	
		For Class 55 Rating, Add		1,114.68	
		For Class 56 Rating, Add		1,478.55	
40 05 19 00-2824	EA	14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,178.35	620.15
		For Class 52 Rating, Deduct		-576.26	
		For Class 54 Rating, Add		797.09	
		For Class 55 Rating, Add		1,190.79	
		For Class 56 Rating, Add		1,579.25	
40 05 19 00-2825	EA	14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,524.42	623.67
		For Class 52 Rating, Deduct		-613.74	
		For Class 54 Rating, Add		848.26	
		For Class 55 Rating, Add		1,266.90	
		For Class 56 Rating, Add		1,679.96	
40 05 19 00-2826	EA	14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		6,870.49	627.19
		For Class 52 Rating, Deduct		-651.22	
		For Class 54 Rating, Add		899.43	
		For Class 55 Rating, Add		1,343.01	
		For Class 56 Rating, Add		1,780.67	
40 05 19 00-2827	EA	14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe		7,216.56	630.72
		For Class 52 Rating, Deduct		-688.70	
		For Class 54 Rating, Add		950.61	
		For Class 55 Rating, Add		1,419.12	
		For Class 56 Rating, Add		1,881.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2828	EA		14" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,562.63	634.24
			For Class 52 Rating, Deduct	-726.18	
			For Class 54 Rating, Add	1,001.78	
			For Class 55 Rating, Add	1,495.23	
			For Class 56 Rating, Add	1,982.08	
40 05 19 00-2829	EA		14" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,908.69	637.77
			For Class 52 Rating, Deduct	-763.66	
			For Class 54 Rating, Add	1,052.95	
			For Class 55 Rating, Add	1,571.34	
			For Class 56 Rating, Add	2,082.79	
40 05 19 00-2830	EA		14" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,254.76	641.29
			For Class 52 Rating, Deduct	-801.14	
			For Class 54 Rating, Add	1,104.13	
			For Class 55 Rating, Add	1,647.46	
			For Class 56 Rating, Add	2,183.50	
40 05 19 00-2831	EA		14" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,600.84	644.81
			For Class 52 Rating, Deduct	-838.62	
			For Class 54 Rating, Add	1,155.30	
			For Class 55 Rating, Add	1,723.57	
			For Class 56 Rating, Add	2,284.21	
40 05 19 00-2832	EA		14" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,946.91	648.34
			For Class 52 Rating, Deduct	-876.10	
			For Class 54 Rating, Add	1,206.47	
			For Class 55 Rating, Add	1,799.68	
			For Class 56 Rating, Add	2,384.91	
40 05 19 00-2833	EA		14" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,292.99	651.86
			For Class 52 Rating, Deduct	-913.59	
			For Class 54 Rating, Add	1,257.65	
			For Class 55 Rating, Add	1,875.79	
			For Class 56 Rating, Add	2,485.63	
40 05 19 00-2834	EA		14" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,639.05	655.38
			For Class 52 Rating, Deduct	-951.07	
			For Class 54 Rating, Add	1,308.82	
			For Class 55 Rating, Add	1,951.90	
			For Class 56 Rating, Add	2,586.33	
40 05 19 00-2835	EA		14" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,985.12	658.91
			For Class 52 Rating, Deduct	-988.55	
			For Class 54 Rating, Add	1,360.00	
			For Class 55 Rating, Add	2,028.01	
			For Class 56 Rating, Add	2,687.04	
40 05 19 00-2836	EA		14" Flanged x Grooved (F&G), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,331.19	662.43
			For Class 52 Rating, Deduct	-1,026.03	
			For Class 54 Rating, Add	1,411.17	
			For Class 55 Rating, Add	2,104.12	
			For Class 56 Rating, Add	2,787.75	
40 05 19 00-2837	EA		14" Flanged x Grooved (F&G), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,677.26	665.95
			For Class 52 Rating, Deduct	-1,063.51	
			For Class 54 Rating, Add	1,462.34	
			For Class 55 Rating, Add	2,180.23	
			For Class 56 Rating, Add	2,888.46	
40 05 19 00-2838	EA		14" Flanged x Grooved (F&G), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,023.33	669.48
			For Class 52 Rating, Deduct	-1,100.99	
			For Class 54 Rating, Add	1,513.52	
			For Class 55 Rating, Add	2,256.34	
			For Class 56 Rating, Add	2,989.16	
40 05 19 00-2839	EA		14" Flanged x Grooved (F&G), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,369.40	673.00
			For Class 52 Rating, Deduct	-1,138.47	
			For Class 54 Rating, Add	1,564.69	
			For Class 55 Rating, Add	2,332.46	
			For Class 56 Rating, Add	3,089.87	
40 05 19 00-2840	EA		14" Flanged x Grooved (F&G), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,715.46	676.52
			For Class 52 Rating, Deduct	-1,175.95	
			For Class 54 Rating, Add	1,615.86	
			For Class 55 Rating, Add	2,408.57	
			For Class 56 Rating, Add	3,190.58	
40 05 19 00-2841	EA		14" Flanged x Grooved (F&G), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,061.53	680.05
			For Class 52 Rating, Deduct	-1,213.43	
			For Class 54 Rating, Add	1,667.04	
			For Class 55 Rating, Add	2,484.68	
			For Class 56 Rating, Add	3,291.29	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-2842	EA	14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,407.60	683.57
		For Class 52 Rating, Deduct.....	-1,250.91	
		For Class 54 Rating, Add.....	1,718.21	
		For Class 55 Rating, Add.....	2,560.79	
		For Class 56 Rating, Add.....	3,391.99	
40 05 19 00-2843	EA	14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,753.67	687.09
		For Class 52 Rating, Deduct.....	-1,288.39	
		For Class 54 Rating, Add.....	1,769.39	
		For Class 55 Rating, Add.....	2,636.90	
		For Class 56 Rating, Add.....	3,492.70	
40 05 19 00-2844	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,099.74	690.62
		For Class 52 Rating, Deduct.....	-1,325.87	
		For Class 54 Rating, Add.....	1,820.56	
		For Class 55 Rating, Add.....	2,713.01	
		For Class 56 Rating, Add.....	3,593.41	
40 05 19 00-2845	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,445.82	694.14
		For Class 52 Rating, Deduct.....	-1,363.35	
		For Class 54 Rating, Add.....	1,871.73	
		For Class 55 Rating, Add.....	2,789.12	
		For Class 56 Rating, Add.....	3,694.12	
40 05 19 00-2846	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,791.88	697.66
		For Class 52 Rating, Deduct.....	-1,400.83	
		For Class 54 Rating, Add.....	1,922.91	
		For Class 55 Rating, Add.....	2,865.23	
		For Class 56 Rating, Add.....	3,794.83	
40 05 19 00-2847	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,137.95	701.19
		For Class 52 Rating, Deduct.....	-1,438.31	
		For Class 54 Rating, Add.....	1,974.08	
		For Class 55 Rating, Add.....	2,941.35	
		For Class 56 Rating, Add.....	3,895.53	
40 05 19 00-2848	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,484.02	704.71
		For Class 52 Rating, Deduct.....	-1,475.79	
		For Class 54 Rating, Add.....	2,025.25	
		For Class 55 Rating, Add.....	3,017.46	
		For Class 56 Rating, Add.....	3,996.24	
40 05 19 00-2849	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,830.09	708.24
		For Class 52 Rating, Deduct.....	-1,513.27	
		For Class 54 Rating, Add.....	2,076.43	
		For Class 55 Rating, Add.....	3,093.57	
		For Class 56 Rating, Add.....	4,096.95	
40 05 19 00-2850	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,176.16	711.76
		For Class 52 Rating, Deduct.....	-1,550.75	
		For Class 54 Rating, Add.....	2,127.60	
		For Class 55 Rating, Add.....	3,169.68	
		For Class 56 Rating, Add.....	4,197.66	
40 05 19 00-2851	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,522.22	715.28
		For Class 52 Rating, Deduct.....	-1,588.23	
		For Class 54 Rating, Add.....	2,178.78	
		For Class 55 Rating, Add.....	3,245.79	
		For Class 56 Rating, Add.....	4,298.36	
40 05 19 00-2852	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,868.30	718.81
		For Class 52 Rating, Deduct.....	-1,625.71	
		For Class 54 Rating, Add.....	2,229.95	
		For Class 55 Rating, Add.....	3,321.90	
		For Class 56 Rating, Add.....	4,399.07	
40 05 19 00-2853	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,214.37	722.33
		For Class 52 Rating, Deduct.....	-1,663.19	
		For Class 54 Rating, Add.....	2,281.12	
		For Class 55 Rating, Add.....	3,398.01	
		For Class 56 Rating, Add.....	4,499.78	

40 05 19 00-2854 16" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)

40 05 19 00-2855	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,991.21	676.52
		For Class 52 Rating, Deduct.....	-326.28	
		For Class 54 Rating, Add.....	457.23	
		For Class 55 Rating, Add.....	686.06	
		For Class 56 Rating, Add.....	911.92	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2856	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,392.05	680.05
		For Class 52 Rating, Deduct	-369.78	
		For Class 54 Rating, Add	516.62	
		For Class 55 Rating, Add	774.38	
		For Class 56 Rating, Add	1,028.79	
40 05 19 00-2857	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,792.88	683.57
		For Class 52 Rating, Deduct	-413.29	
		For Class 54 Rating, Add	576.00	
		For Class 55 Rating, Add	862.71	
		For Class 56 Rating, Add	1,145.65	
40 05 19 00-2858	EA	16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,193.71	687.09
		For Class 52 Rating, Deduct	-456.79	
		For Class 54 Rating, Add	635.39	
		For Class 55 Rating, Add	951.03	
		For Class 56 Rating, Add	1,262.51	
40 05 19 00-2859	EA	16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,594.54	690.62
		For Class 52 Rating, Deduct	-500.30	
		For Class 54 Rating, Add	694.78	
		For Class 55 Rating, Add	1,039.35	
		For Class 56 Rating, Add	1,379.37	
40 05 19 00-2860	EA	16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,995.37	694.14
		For Class 52 Rating, Deduct	-543.80	
		For Class 54 Rating, Add	754.17	
		For Class 55 Rating, Add	1,127.67	
		For Class 56 Rating, Add	1,496.24	
40 05 19 00-2861	EA	16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,396.19	697.66
		For Class 52 Rating, Deduct	-587.30	
		For Class 54 Rating, Add	813.55	
		For Class 55 Rating, Add	1,216.00	
		For Class 56 Rating, Add	1,613.10	
40 05 19 00-2862	EA	16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,797.02	701.19
		For Class 52 Rating, Deduct	-630.81	
		For Class 54 Rating, Add	872.94	
		For Class 55 Rating, Add	1,304.32	
		For Class 56 Rating, Add	1,729.96	
40 05 19 00-2863	EA	16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,197.85	704.71
		For Class 52 Rating, Deduct	-674.31	
		For Class 54 Rating, Add	932.33	
		For Class 55 Rating, Add	1,392.64	
		For Class 56 Rating, Add	1,846.82	
40 05 19 00-2864	EA	16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,598.68	708.24
		For Class 52 Rating, Deduct	-717.82	
		For Class 54 Rating, Add	991.72	
		For Class 55 Rating, Add	1,480.96	
		For Class 56 Rating, Add	1,963.68	
40 05 19 00-2865	EA	16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,999.52	711.76
		For Class 52 Rating, Deduct	-761.32	
		For Class 54 Rating, Add	1,051.11	
		For Class 55 Rating, Add	1,569.29	
		For Class 56 Rating, Add	2,080.55	
40 05 19 00-2866	EA	16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,400.34	715.28
		For Class 52 Rating, Deduct	-804.82	
		For Class 54 Rating, Add	1,110.49	
		For Class 55 Rating, Add	1,657.61	
		For Class 56 Rating, Add	2,197.41	
40 05 19 00-2867	EA	16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,801.18	718.81
		For Class 52 Rating, Deduct	-848.33	
		For Class 54 Rating, Add	1,169.88	
		For Class 55 Rating, Add	1,745.93	
		For Class 56 Rating, Add	2,314.27	
40 05 19 00-2868	EA	16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,202.01	722.33
		For Class 52 Rating, Deduct	-891.83	
		For Class 54 Rating, Add	1,229.27	
		For Class 55 Rating, Add	1,834.25	
		For Class 56 Rating, Add	2,431.13	
40 05 19 00-2869	EA	16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,602.84	725.85
		For Class 52 Rating, Deduct	-935.34	
		For Class 54 Rating, Add	1,288.66	
		For Class 55 Rating, Add	1,922.58	
		For Class 56 Rating, Add	2,547.99	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2870	EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,003.67		729.38
	For Class 52 Rating, Deduct	-978.84		
	For Class 54 Rating, Add	1,348.04		
	For Class 55 Rating, Add	2,010.90		
	For Class 56 Rating, Add	2,664.86		
40 05 19 00-2871	EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,404.50		732.90
	For Class 52 Rating, Deduct	-1,022.34		
	For Class 54 Rating, Add	1,407.43		
	For Class 55 Rating, Add	2,099.22		
	For Class 56 Rating, Add	2,781.72		
40 05 19 00-2872	EA 16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,805.32		736.42
	For Class 52 Rating, Deduct	-1,065.85		
	For Class 54 Rating, Add	1,466.82		
	For Class 55 Rating, Add	2,187.54		
	For Class 56 Rating, Add	2,898.58		
40 05 19 00-2873	EA 16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,206.16		739.95
	For Class 52 Rating, Deduct	-1,109.35		
	For Class 54 Rating, Add	1,526.21		
	For Class 55 Rating, Add	2,275.87		
	For Class 56 Rating, Add	3,015.44		
40 05 19 00-2874	EA 16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,606.99		743.47
	For Class 52 Rating, Deduct	-1,152.86		
	For Class 54 Rating, Add	1,585.60		
	For Class 55 Rating, Add	2,364.19		
	For Class 56 Rating, Add	3,132.31		
40 05 19 00-2875	EA 16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,007.82		746.99
	For Class 52 Rating, Deduct	-1,196.36		
	For Class 54 Rating, Add	1,644.98		
	For Class 55 Rating, Add	2,452.51		
	For Class 56 Rating, Add	3,249.17		
40 05 19 00-2876	EA 16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,408.65		750.52
	For Class 52 Rating, Deduct	-1,239.87		
	For Class 54 Rating, Add	1,704.37		
	For Class 55 Rating, Add	2,540.84		
	For Class 56 Rating, Add	3,366.03		
40 05 19 00-2877	EA 16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,809.48		754.04
	For Class 52 Rating, Deduct	-1,283.37		
	For Class 54 Rating, Add	1,763.76		
	For Class 55 Rating, Add	2,629.16		
	For Class 56 Rating, Add	3,482.89		
40 05 19 00-2878	EA 16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,210.30		757.56
	For Class 52 Rating, Deduct	-1,326.87		
	For Class 54 Rating, Add	1,823.15		
	For Class 55 Rating, Add	2,717.48		
	For Class 56 Rating, Add	3,599.75		
40 05 19 00-2879	EA 16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,611.13		761.09
	For Class 52 Rating, Deduct	-1,370.38		
	For Class 54 Rating, Add	1,882.53		
	For Class 55 Rating, Add	2,805.80		
	For Class 56 Rating, Add	3,716.61		
40 05 19 00-2880	EA 16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,011.96		764.61
	For Class 52 Rating, Deduct	-1,413.88		
	For Class 54 Rating, Add	1,941.92		
	For Class 55 Rating, Add	2,894.13		
	For Class 56 Rating, Add	3,833.48		
40 05 19 00-2881	EA 16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,412.80		768.13
	For Class 52 Rating, Deduct	-1,457.39		
	For Class 54 Rating, Add	2,001.31		
	For Class 55 Rating, Add	2,982.45		
	For Class 56 Rating, Add	3,950.34		
40 05 19 00-2882	EA 16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,813.63		771.66
	For Class 52 Rating, Deduct	-1,500.89		
	For Class 54 Rating, Add	2,060.70		
	For Class 55 Rating, Add	3,070.77		
	For Class 56 Rating, Add	4,067.20		
40 05 19 00-2883	EA 16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,214.46		775.18
	For Class 52 Rating, Deduct	-1,544.39		
	For Class 54 Rating, Add	2,120.09		
	For Class 55 Rating, Add	3,159.10		
	For Class 56 Rating, Add	4,184.07		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2884	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,615.28	778.71
			For Class 52 Rating, Deduct.....	-1,587.90	
			For Class 54 Rating, Add.....	2,179.47	
			For Class 55 Rating, Add.....	3,247.42	
			For Class 56 Rating, Add.....	4,300.93	
40 05 19 00-2885	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,016.11	782.23
			For Class 52 Rating, Deduct.....	-1,631.40	
			For Class 54 Rating, Add.....	2,238.86	
			For Class 55 Rating, Add.....	3,335.74	
			For Class 56 Rating, Add.....	4,417.79	
40 05 19 00-2886	EA		16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,416.94	785.75
			For Class 52 Rating, Deduct.....	-1,674.91	
			For Class 54 Rating, Add.....	2,298.25	
			For Class 55 Rating, Add.....	3,424.06	
			For Class 56 Rating, Add.....	4,534.65	
40 05 19 00-2887	EA		16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,817.77	789.28
			For Class 52 Rating, Deduct.....	-1,718.41	
			For Class 54 Rating, Add.....	2,357.64	
			For Class 55 Rating, Add.....	3,512.38	
			For Class 56 Rating, Add.....	4,651.51	
40 05 19 00-2888	EA		16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,218.61	792.80
			For Class 52 Rating, Deduct.....	-1,761.91	
			For Class 54 Rating, Add.....	2,417.02	
			For Class 55 Rating, Add.....	3,600.71	
			For Class 56 Rating, Add.....	4,768.37	
40 05 19 00-2889	EA		16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,619.43	796.32
			For Class 52 Rating, Deduct.....	-1,805.42	
			For Class 54 Rating, Add.....	2,476.41	
			For Class 55 Rating, Add.....	3,689.03	
			For Class 56 Rating, Add.....	4,885.24	
40 05 19 00-2890	EA		16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,020.27	799.85
			For Class 52 Rating, Deduct.....	-1,848.92	
			For Class 54 Rating, Add.....	2,535.80	
			For Class 55 Rating, Add.....	3,777.35	
			For Class 56 Rating, Add.....	5,002.10	
40 05 19 00-2891	EA		16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,421.10	803.37
			For Class 52 Rating, Deduct.....	-1,892.43	
			For Class 54 Rating, Add.....	2,595.19	
			For Class 55 Rating, Add.....	3,865.68	
			For Class 56 Rating, Add.....	5,118.96	
40 05 19 00-2892	EA		16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,821.93	806.89
			For Class 52 Rating, Deduct.....	-1,935.93	
			For Class 54 Rating, Add.....	2,654.57	
			For Class 55 Rating, Add.....	3,954.00	
			For Class 56 Rating, Add.....	5,235.82	
40 05 19 00-2893			18" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2894)		
40 05 19 00-2894	EA		18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,669.09	762.51
			For Class 52 Rating, Deduct.....	-386.52	
			For Class 54 Rating, Add.....	540.93	
			For Class 55 Rating, Add.....	811.30	
			For Class 56 Rating, Add.....	1,078.16	
40 05 19 00-2895	EA		18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,130.76	766.03
			For Class 52 Rating, Deduct.....	-436.71	
			For Class 54 Rating, Add.....	609.45	
			For Class 55 Rating, Add.....	913.19	
			For Class 56 Rating, Add.....	1,212.97	
40 05 19 00-2896	EA		18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,592.44	769.55
			For Class 52 Rating, Deduct.....	-486.91	
			For Class 54 Rating, Add.....	677.96	
			For Class 55 Rating, Add.....	1,015.08	
			For Class 56 Rating, Add.....	1,347.78	
40 05 19 00-2897	EA		18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,054.11	773.08
			For Class 52 Rating, Deduct.....	-537.11	
			For Class 54 Rating, Add.....	746.48	
			For Class 55 Rating, Add.....	1,116.98	
			For Class 56 Rating, Add.....	1,482.59	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-2898	EA	18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,515.78		776.60
		For Class 52 Rating, Deduct	-587.30		
		For Class 54 Rating, Add	814.99		
		For Class 55 Rating, Add	1,218.87		
		For Class 56 Rating, Add	1,617.40		
40 05 19 00-2899	EA	18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,977.46		780.12
		For Class 52 Rating, Deduct	-637.50		
		For Class 54 Rating, Add	883.50		
		For Class 55 Rating, Add	1,320.76		
		For Class 56 Rating, Add	1,752.22		
40 05 19 00-2900	EA	18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,439.13		783.65
		For Class 52 Rating, Deduct	-687.70		
		For Class 54 Rating, Add	952.02		
		For Class 55 Rating, Add	1,422.65		
		For Class 56 Rating, Add	1,887.02		
40 05 19 00-2901	EA	18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,900.81		787.17
		For Class 52 Rating, Deduct	-737.90		
		For Class 54 Rating, Add	1,020.53		
		For Class 55 Rating, Add	1,524.54		
		For Class 56 Rating, Add	2,021.84		
40 05 19 00-2902	EA	18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,362.49		790.69
		For Class 52 Rating, Deduct	-788.09		
		For Class 54 Rating, Add	1,089.05		
		For Class 55 Rating, Add	1,626.43		
		For Class 56 Rating, Add	2,156.65		
40 05 19 00-2903	EA	18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,824.15		794.22
		For Class 52 Rating, Deduct	-838.29		
		For Class 54 Rating, Add	1,157.56		
		For Class 55 Rating, Add	1,728.32		
		For Class 56 Rating, Add	2,291.46		
40 05 19 00-2904	EA	18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,285.83		797.74
		For Class 52 Rating, Deduct	-888.49		
		For Class 54 Rating, Add	1,226.08		
		For Class 55 Rating, Add	1,830.21		
		For Class 56 Rating, Add	2,426.27		
40 05 19 00-2905	EA	18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,747.50		801.26
		For Class 52 Rating, Deduct	-938.68		
		For Class 54 Rating, Add	1,294.59		
		For Class 55 Rating, Add	1,932.10		
		For Class 56 Rating, Add	2,561.08		
40 05 19 00-2906	EA	18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,209.18		804.79
		For Class 52 Rating, Deduct	-988.88		
		For Class 54 Rating, Add	1,363.11		
		For Class 55 Rating, Add	2,033.99		
		For Class 56 Rating, Add	2,695.89		
40 05 19 00-2907	EA	18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,670.87		808.31
		For Class 52 Rating, Deduct	-1,039.08		
		For Class 54 Rating, Add	1,431.62		
		For Class 55 Rating, Add	2,135.89		
		For Class 56 Rating, Add	2,830.71		
40 05 19 00-2908	EA	18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,132.54		811.83
		For Class 52 Rating, Deduct	-1,089.27		
		For Class 54 Rating, Add	1,500.13		
		For Class 55 Rating, Add	2,237.78		
		For Class 56 Rating, Add	2,965.52		
40 05 19 00-2909	EA	18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,594.21		815.36
		For Class 52 Rating, Deduct	-1,139.47		
		For Class 54 Rating, Add	1,568.65		
		For Class 55 Rating, Add	2,339.67		
		For Class 56 Rating, Add	3,100.33		
40 05 19 00-2910	EA	18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,055.88		818.88
		For Class 52 Rating, Deduct	-1,189.67		
		For Class 54 Rating, Add	1,637.16		
		For Class 55 Rating, Add	2,441.56		
		For Class 56 Rating, Add	3,235.14		
40 05 19 00-2911	EA	18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,517.56		822.41
		For Class 52 Rating, Deduct	-1,239.87		
		For Class 54 Rating, Add	1,705.68		
		For Class 55 Rating, Add	2,543.45		
		For Class 56 Rating, Add	3,369.95		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2912	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	12,979.24	825.93
			For Class 52 Rating, Deduct	-1,290.06	
			For Class 54 Rating, Add	1,774.19	
			For Class 55 Rating, Add	2,645.34	
			For Class 56 Rating, Add	3,504.76	
40 05 19 00-2913	EA		18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,440.91	829.45
			For Class 52 Rating, Deduct	-1,340.26	
			For Class 54 Rating, Add	1,842.71	
			For Class 55 Rating, Add	2,747.23	
			For Class 56 Rating, Add	3,639.57	
40 05 19 00-2914	EA		18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	13,902.58	832.98
			For Class 52 Rating, Deduct	-1,390.46	
			For Class 54 Rating, Add	1,911.22	
			For Class 55 Rating, Add	2,849.12	
			For Class 56 Rating, Add	3,774.38	
40 05 19 00-2915	EA		18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,364.25	836.50
			For Class 52 Rating, Deduct	-1,440.65	
			For Class 54 Rating, Add	1,979.73	
			For Class 55 Rating, Add	2,951.01	
			For Class 56 Rating, Add	3,909.19	
40 05 19 00-2916	EA		18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	14,825.93	840.02
			For Class 52 Rating, Deduct	-1,490.85	
			For Class 54 Rating, Add	2,048.25	
			For Class 55 Rating, Add	3,052.91	
			For Class 56 Rating, Add	4,044.01	
40 05 19 00-2917	EA		18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,287.61	843.55
			For Class 52 Rating, Deduct	-1,541.05	
			For Class 54 Rating, Add	2,116.77	
			For Class 55 Rating, Add	3,154.80	
			For Class 56 Rating, Add	4,178.82	
40 05 19 00-2918	EA		18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	15,749.28	847.07
			For Class 52 Rating, Deduct	-1,591.24	
			For Class 54 Rating, Add	2,185.28	
			For Class 55 Rating, Add	3,256.69	
			For Class 56 Rating, Add	4,313.63	
40 05 19 00-2919	EA		18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	16,210.96	850.59
			For Class 52 Rating, Deduct	-1,641.44	
			For Class 54 Rating, Add	2,253.79	
			For Class 55 Rating, Add	3,358.58	
			For Class 56 Rating, Add	4,448.44	
40 05 19 00-2920	EA		18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	16,672.62	854.12
			For Class 52 Rating, Deduct	-1,691.64	
			For Class 54 Rating, Add	2,322.31	
			For Class 55 Rating, Add	3,460.47	
			For Class 56 Rating, Add	4,583.25	
40 05 19 00-2921	EA		18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,134.30	857.64
			For Class 52 Rating, Deduct	-1,741.83	
			For Class 54 Rating, Add	2,390.82	
			For Class 55 Rating, Add	3,562.36	
			For Class 56 Rating, Add	4,718.06	
40 05 19 00-2922	EA		18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	17,595.98	861.16
			For Class 52 Rating, Deduct	-1,792.03	
			For Class 54 Rating, Add	2,459.34	
			For Class 55 Rating, Add	3,664.25	
			For Class 56 Rating, Add	4,852.88	
40 05 19 00-2923	EA		18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,057.65	864.69
			For Class 52 Rating, Deduct	-1,842.23	
			For Class 54 Rating, Add	2,527.85	
			For Class 55 Rating, Add	3,766.14	
			For Class 56 Rating, Add	4,987.69	
40 05 19 00-2924	EA		18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,519.33	868.21
			For Class 52 Rating, Deduct	-1,892.43	
			For Class 54 Rating, Add	2,596.37	
			For Class 55 Rating, Add	3,868.03	
			For Class 56 Rating, Add	5,122.50	
40 05 19 00-2925	EA		18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	18,981.00	871.73
			For Class 52 Rating, Deduct	-1,942.62	
			For Class 54 Rating, Add	2,664.88	
			For Class 55 Rating, Add	3,969.92	
			For Class 56 Rating, Add	5,257.31	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2926	EA	18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,442.67	875.26	
		For Class 52 Rating, Deduct.....	-1,992.82		
		For Class 54 Rating, Add.....	2,733.39		
		For Class 55 Rating, Add.....	4,071.82		
		For Class 56 Rating, Add.....	5,392.12		
40 05 19 00-2927	EA	18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,904.35	878.78	
		For Class 52 Rating, Deduct.....	-2,043.02		
		For Class 54 Rating, Add.....	2,801.91		
		For Class 55 Rating, Add.....	4,173.71		
		For Class 56 Rating, Add.....	5,526.93		
40 05 19 00-2928	EA	18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,366.02	882.31	
		For Class 52 Rating, Deduct.....	-2,093.21		
		For Class 54 Rating, Add.....	2,870.42		
		For Class 55 Rating, Add.....	4,275.60		
		For Class 56 Rating, Add.....	5,661.74		
40 05 19 00-2929	EA	18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,827.71	885.83	
		For Class 52 Rating, Deduct.....	-2,143.41		
		For Class 54 Rating, Add.....	2,938.94		
		For Class 55 Rating, Add.....	4,377.49		
		For Class 56 Rating, Add.....	5,796.56		
40 05 19 00-2930	EA	18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,289.38	889.35	
		For Class 52 Rating, Deduct.....	-2,193.61		
		For Class 54 Rating, Add.....	3,007.45		
		For Class 55 Rating, Add.....	4,479.38		
		For Class 56 Rating, Add.....	5,931.36		
40 05 19 00-2931	EA	18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,751.05	892.88	
		For Class 52 Rating, Deduct.....	-2,243.80		
		For Class 54 Rating, Add.....	3,075.97		
		For Class 55 Rating, Add.....	4,581.27		
		For Class 56 Rating, Add.....	6,066.18		
40 05 19 00-2932 20" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-2933	EA	20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,410.48	870.32	
		For Class 52 Rating, Deduct.....	-450.10		
		For Class 54 Rating, Add.....	629.60		
		For Class 55 Rating, Add.....	944.12		
		For Class 56 Rating, Add.....	1,254.56		
40 05 19 00-2934	EA	20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,936.05	873.84	
		For Class 52 Rating, Deduct.....	-507.32		
		For Class 54 Rating, Add.....	707.69		
		For Class 55 Rating, Add.....	1,060.26		
		For Class 56 Rating, Add.....	1,408.22		
40 05 19 00-2935	EA	20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,461.60	877.36	
		For Class 52 Rating, Deduct.....	-564.55		
		For Class 54 Rating, Add.....	785.79		
		For Class 55 Rating, Add.....	1,176.40		
		For Class 56 Rating, Add.....	1,561.87		
40 05 19 00-2936	EA	20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,987.16	880.89	
		For Class 52 Rating, Deduct.....	-621.77		
		For Class 54 Rating, Add.....	863.89		
		For Class 55 Rating, Add.....	1,292.54		
		For Class 56 Rating, Add.....	1,715.53		
40 05 19 00-2937	EA	20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,512.72	884.41	
		For Class 52 Rating, Deduct.....	-679.00		
		For Class 54 Rating, Add.....	941.99		
		For Class 55 Rating, Add.....	1,408.67		
		For Class 56 Rating, Add.....	1,869.19		
40 05 19 00-2938	EA	20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,038.29	887.93	
		For Class 52 Rating, Deduct.....	-736.22		
		For Class 54 Rating, Add.....	1,020.08		
		For Class 55 Rating, Add.....	1,524.81		
		For Class 56 Rating, Add.....	2,022.85		
40 05 19 00-2939	EA	20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,563.85	891.46	
		For Class 52 Rating, Deduct.....	-793.45		
		For Class 54 Rating, Add.....	1,098.18		
		For Class 55 Rating, Add.....	1,640.95		
		For Class 56 Rating, Add.....	2,176.50		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2940	EA	20" Flanged x Grooved (F&G), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,089.41	894.98
		For Class 52 Rating, Deduct	-850.67	
		For Class 54 Rating, Add	1,176.28	
		For Class 55 Rating, Add	1,757.09	
		For Class 56 Rating, Add	2,330.16	
40 05 19 00-2941	EA	20" Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,614.97	898.50
		For Class 52 Rating, Deduct	-907.90	
		For Class 54 Rating, Add	1,254.38	
		For Class 55 Rating, Add	1,873.23	
		For Class 56 Rating, Add	2,483.82	
40 05 19 00-2942	EA	20" Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,140.53	902.03
		For Class 52 Rating, Deduct	-965.12	
		For Class 54 Rating, Add	1,332.47	
		For Class 55 Rating, Add	1,989.36	
		For Class 56 Rating, Add	2,637.48	
40 05 19 00-2943	EA	20" Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,666.09	905.55
		For Class 52 Rating, Deduct	-1,022.34	
		For Class 54 Rating, Add	1,410.57	
		For Class 55 Rating, Add	2,105.50	
		For Class 56 Rating, Add	2,791.14	
40 05 19 00-2944	EA	20" Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,191.66	909.08
		For Class 52 Rating, Deduct	-1,079.57	
		For Class 54 Rating, Add	1,488.67	
		For Class 55 Rating, Add	2,221.64	
		For Class 56 Rating, Add	2,944.80	
40 05 19 00-2945	EA	20" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,717.22	912.60
		For Class 52 Rating, Deduct	-1,136.79	
		For Class 54 Rating, Add	1,566.77	
		For Class 55 Rating, Add	2,337.78	
		For Class 56 Rating, Add	3,098.45	
40 05 19 00-2946	EA	20" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,242.78	916.12
		For Class 52 Rating, Deduct	-1,194.02	
		For Class 54 Rating, Add	1,644.86	
		For Class 55 Rating, Add	2,453.91	
		For Class 56 Rating, Add	3,252.11	
40 05 19 00-2947	EA	20" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,768.34	919.65
		For Class 52 Rating, Deduct	-1,251.24	
		For Class 54 Rating, Add	1,722.96	
		For Class 55 Rating, Add	2,570.05	
		For Class 56 Rating, Add	3,405.77	
40 05 19 00-2948	EA	20" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,293.90	923.17
		For Class 52 Rating, Deduct	-1,308.47	
		For Class 54 Rating, Add	1,801.06	
		For Class 55 Rating, Add	2,686.19	
		For Class 56 Rating, Add	3,559.43	
40 05 19 00-2949	EA	20" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,819.46	926.69
		For Class 52 Rating, Deduct	-1,365.69	
		For Class 54 Rating, Add	1,879.16	
		For Class 55 Rating, Add	2,802.33	
		For Class 56 Rating, Add	3,713.08	
40 05 19 00-2950	EA	20" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,345.02	930.22
		For Class 52 Rating, Deduct	-1,422.92	
		For Class 54 Rating, Add	1,957.25	
		For Class 55 Rating, Add	2,918.46	
		For Class 56 Rating, Add	3,866.74	
40 05 19 00-2951	EA	20" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,870.59	933.74
		For Class 52 Rating, Deduct	-1,480.14	
		For Class 54 Rating, Add	2,035.35	
		For Class 55 Rating, Add	3,034.60	
		For Class 56 Rating, Add	4,020.40	
40 05 19 00-2952	EA	20" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,396.14	937.26
		For Class 52 Rating, Deduct	-1,537.37	
		For Class 54 Rating, Add	2,113.45	
		For Class 55 Rating, Add	3,150.74	
		For Class 56 Rating, Add	4,174.06	
40 05 19 00-2953	EA	20" Flanged x Grooved (F&G), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,921.70	940.79
		For Class 52 Rating, Deduct	-1,594.59	
		For Class 54 Rating, Add	2,191.55	
		For Class 55 Rating, Add	3,266.88	
		For Class 56 Rating, Add	4,327.72	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-2954	EA	20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	16,447.28		944.31	
		For Class 52 Rating, Deduct	-1,651.82			
		For Class 54 Rating, Add	2,269.64			
		For Class 55 Rating, Add	3,383.02			
		For Class 56 Rating, Add	4,481.38			
40 05 19 00-2955	EA	20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	16,972.84		947.83	
		For Class 52 Rating, Deduct	-1,709.04			
		For Class 54 Rating, Add	2,347.74			
		For Class 55 Rating, Add	3,499.16			
		For Class 56 Rating, Add	4,635.03			
40 05 19 00-2956	EA	20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	17,498.40		951.36	
		For Class 52 Rating, Deduct	-1,766.26			
		For Class 54 Rating, Add	2,425.84			
		For Class 55 Rating, Add	3,615.29			
		For Class 56 Rating, Add	4,788.69			
40 05 19 00-2957	EA	20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	18,023.97		954.88	
		For Class 52 Rating, Deduct	-1,823.49			
		For Class 54 Rating, Add	2,503.94			
		For Class 55 Rating, Add	3,731.43			
		For Class 56 Rating, Add	4,942.35			
40 05 19 00-2958	EA	20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	18,549.52		958.40	
		For Class 52 Rating, Deduct	-1,880.71			
		For Class 54 Rating, Add	2,582.03			
		For Class 55 Rating, Add	3,847.57			
		For Class 56 Rating, Add	5,096.01			
40 05 19 00-2959	EA	20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	19,075.08		961.93	
		For Class 52 Rating, Deduct	-1,937.94			
		For Class 54 Rating, Add	2,660.13			
		For Class 55 Rating, Add	3,963.71			
		For Class 56 Rating, Add	5,249.66			
40 05 19 00-2960	EA	20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	19,600.64		965.45	
		For Class 52 Rating, Deduct	-1,995.16			
		For Class 54 Rating, Add	2,738.23			
		For Class 55 Rating, Add	4,079.84			
		For Class 56 Rating, Add	5,403.32			
40 05 19 00-2961	EA	20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	20,126.21		968.97	
		For Class 52 Rating, Deduct	-2,052.39			
		For Class 54 Rating, Add	2,816.33			
		For Class 55 Rating, Add	4,195.98			
		For Class 56 Rating, Add	5,566.98			
40 05 19 00-2962	EA	20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	20,651.77		972.50	
		For Class 52 Rating, Deduct	-2,109.61			
		For Class 54 Rating, Add	2,894.42			
		For Class 55 Rating, Add	4,312.12			
		For Class 56 Rating, Add	5,710.64			
40 05 19 00-2963	EA	20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	21,177.33		976.02	
		For Class 52 Rating, Deduct	-2,166.84			
		For Class 54 Rating, Add	2,972.52			
		For Class 55 Rating, Add	4,428.26			
		For Class 56 Rating, Add	5,864.30			
40 05 19 00-2964	EA	20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	21,702.89		979.55	
		For Class 52 Rating, Deduct	-2,224.06			
		For Class 54 Rating, Add	3,050.62			
		For Class 55 Rating, Add	4,544.40			
		For Class 56 Rating, Add	6,017.96			
40 05 19 00-2965	EA	20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	22,228.45		983.07	
		For Class 52 Rating, Deduct	-2,281.28			
		For Class 54 Rating, Add	3,128.72			
		For Class 55 Rating, Add	4,660.53			
		For Class 56 Rating, Add	6,171.61			
40 05 19 00-2966	EA	20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	22,754.01		986.59	
		For Class 52 Rating, Deduct	-2,338.51			
		For Class 54 Rating, Add	3,206.81			
		For Class 55 Rating, Add	4,776.67			
		For Class 56 Rating, Add	6,325.27			
40 05 19 00-2967	EA	20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	23,279.58		990.12	
		For Class 52 Rating, Deduct	-2,395.73			
		For Class 54 Rating, Add	3,284.91			
		For Class 55 Rating, Add	4,892.81			
		For Class 56 Rating, Add	6,478.93			



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-2968	EA	20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,805.14	993.64
		For Class 52 Rating, Deduct	-2,452.96	
		For Class 54 Rating, Add	3,363.01	
		For Class 55 Rating, Add	5,008.95	
		For Class 56 Rating, Add	6,632.59	
40 05 19 00-2969	EA	20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,330.70	997.16
		For Class 52 Rating, Deduct	-2,510.18	
		For Class 54 Rating, Add	3,441.11	
		For Class 55 Rating, Add	5,125.08	
		For Class 56 Rating, Add	6,786.24	
40 05 19 00-2970	EA	20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,856.26	1,000.69
		For Class 52 Rating, Deduct	-2,567.41	
		For Class 54 Rating, Add	3,519.20	
		For Class 55 Rating, Add	5,241.22	
		For Class 56 Rating, Add	6,939.90	
40 05 19 00-2971 24" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)				
40 05 19 00-2972	EA	24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,724.63	1,028.87
		For Class 52 Rating, Deduct	-568.23	
		For Class 54 Rating, Add	793.56	
		For Class 55 Rating, Add	1,189.37	
		For Class 56 Rating, Add	1,580.01	
40 05 19 00-2973	EA	24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,374.93	1,032.40
		For Class 52 Rating, Deduct	-639.17	
		For Class 54 Rating, Add	890.37	
		For Class 55 Rating, Add	1,333.32	
		For Class 56 Rating, Add	1,770.46	
40 05 19 00-2974	EA	24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,025.22	1,035.92
		For Class 52 Rating, Deduct	-710.12	
		For Class 54 Rating, Add	987.18	
		For Class 55 Rating, Add	1,477.28	
		For Class 56 Rating, Add	1,960.92	
40 05 19 00-2975	EA	24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,675.51	1,039.44
		For Class 52 Rating, Deduct	-781.06	
		For Class 54 Rating, Add	1,083.99	
		For Class 55 Rating, Add	1,621.23	
		For Class 56 Rating, Add	2,151.37	
40 05 19 00-2976	EA	24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,325.80	1,042.97
		For Class 52 Rating, Deduct	-852.01	
		For Class 54 Rating, Add	1,180.79	
		For Class 55 Rating, Add	1,765.18	
		For Class 56 Rating, Add	2,341.82	
40 05 19 00-2977	EA	24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,976.10	1,046.49
		For Class 52 Rating, Deduct	-922.96	
		For Class 54 Rating, Add	1,277.60	
		For Class 55 Rating, Add	1,909.14	
		For Class 56 Rating, Add	2,532.28	
40 05 19 00-2978	EA	24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,626.39	1,050.02
		For Class 52 Rating, Deduct	-993.90	
		For Class 54 Rating, Add	1,374.41	
		For Class 55 Rating, Add	2,053.09	
		For Class 56 Rating, Add	2,722.73	
40 05 19 00-2979	EA	24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,276.69	1,053.54
		For Class 52 Rating, Deduct	-1,064.85	
		For Class 54 Rating, Add	1,471.22	
		For Class 55 Rating, Add	2,197.04	
		For Class 56 Rating, Add	2,913.19	
40 05 19 00-2980	EA	24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,926.98	1,057.06
		For Class 52 Rating, Deduct	-1,135.79	
		For Class 54 Rating, Add	1,568.02	
		For Class 55 Rating, Add	2,340.99	
		For Class 56 Rating, Add	3,103.64	
40 05 19 00-2981	EA	24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,577.27	1,060.59
		For Class 52 Rating, Deduct	-1,206.74	
		For Class 54 Rating, Add	1,664.83	
		For Class 55 Rating, Add	2,484.95	
		For Class 56 Rating, Add	3,294.09	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2982	EA	24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,227.56		1,064.11
		For Class 52 Rating, Deduct	-1,277.68		
		For Class 54 Rating, Add	1,761.64		
		For Class 55 Rating, Add	2,628.90		
		For Class 56 Rating, Add	3,484.55		
40 05 19 00-2983	EA	24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,877.86		1,067.63
		For Class 52 Rating, Deduct	-1,348.63		
		For Class 54 Rating, Add	1,858.45		
		For Class 55 Rating, Add	2,772.85		
		For Class 56 Rating, Add	3,675.00		
40 05 19 00-2984	EA	24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,528.15		1,071.16
		For Class 52 Rating, Deduct	-1,419.57		
		For Class 54 Rating, Add	1,955.25		
		For Class 55 Rating, Add	2,916.81		
		For Class 56 Rating, Add	3,865.46		
40 05 19 00-2985	EA	24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,178.45		1,074.68
		For Class 52 Rating, Deduct	-1,490.52		
		For Class 54 Rating, Add	2,052.06		
		For Class 55 Rating, Add	3,060.76		
		For Class 56 Rating, Add	4,055.91		
40 05 19 00-2986	EA	24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,828.73		1,078.20
		For Class 52 Rating, Deduct	-1,561.46		
		For Class 54 Rating, Add	2,148.87		
		For Class 55 Rating, Add	3,204.71		
		For Class 56 Rating, Add	4,246.36		
40 05 19 00-2987	EA	24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,479.03		1,081.73
		For Class 52 Rating, Deduct	-1,632.41		
		For Class 54 Rating, Add	2,245.68		
		For Class 55 Rating, Add	3,348.67		
		For Class 56 Rating, Add	4,436.82		
40 05 19 00-2988	EA	24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,129.32		1,085.25
		For Class 52 Rating, Deduct	-1,703.35		
		For Class 54 Rating, Add	2,342.48		
		For Class 55 Rating, Add	3,492.62		
		For Class 56 Rating, Add	4,627.27		
40 05 19 00-2989	EA	24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,779.62		1,088.77
		For Class 52 Rating, Deduct	-1,774.30		
		For Class 54 Rating, Add	2,439.29		
		For Class 55 Rating, Add	3,636.57		
		For Class 56 Rating, Add	4,817.73		
40 05 19 00-2990	EA	24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,429.91		1,092.30
		For Class 52 Rating, Deduct	-1,845.24		
		For Class 54 Rating, Add	2,536.10		
		For Class 55 Rating, Add	3,780.52		
		For Class 56 Rating, Add	5,008.18		
40 05 19 00-2991	EA	24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,080.22		1,095.82
		For Class 52 Rating, Deduct	-1,916.19		
		For Class 54 Rating, Add	2,632.90		
		For Class 55 Rating, Add	3,924.48		
		For Class 56 Rating, Add	5,198.63		
40 05 19 00-2992	EA	24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,730.50		1,099.34
		For Class 52 Rating, Deduct	-1,987.13		
		For Class 54 Rating, Add	2,729.71		
		For Class 55 Rating, Add	4,068.43		
		For Class 56 Rating, Add	5,389.09		
40 05 19 00-2993	EA	24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,380.80		1,102.87
		For Class 52 Rating, Deduct	-2,058.08		
		For Class 54 Rating, Add	2,826.52		
		For Class 55 Rating, Add	4,212.39		
		For Class 56 Rating, Add	5,579.54		
40 05 19 00-2994	EA	24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,031.09		1,106.39
		For Class 52 Rating, Deduct	-2,129.02		
		For Class 54 Rating, Add	2,923.33		
		For Class 55 Rating, Add	4,356.34		
		For Class 56 Rating, Add	5,769.99		
40 05 19 00-2995	EA	24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,681.39		1,109.92
		For Class 52 Rating, Deduct	-2,199.97		
		For Class 54 Rating, Add	3,020.13		
		For Class 55 Rating, Add	4,500.29		
		For Class 56 Rating, Add	5,960.45		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2996	EA	24"	Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	22,331.68	1,113.44
			For Class 52 Rating, Deduct	-2,270.91	
			For Class 54 Rating, Add	3,116.94	
			For Class 55 Rating, Add	4,644.24	
			For Class 56 Rating, Add	6,150.90	
40 05 19 00-2997	EA	24"	Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	22,981.98	1,116.96
			For Class 52 Rating, Deduct	-2,341.86	
			For Class 54 Rating, Add	3,213.75	
			For Class 55 Rating, Add	4,788.20	
			For Class 56 Rating, Add	6,341.36	
40 05 19 00-2998	EA	24"	Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	23,632.26	1,120.49
			For Class 52 Rating, Deduct	-2,412.80	
			For Class 54 Rating, Add	3,310.56	
			For Class 55 Rating, Add	4,932.15	
			For Class 56 Rating, Add	6,531.81	
40 05 19 00-2999	EA	24"	Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	24,282.56	1,124.01
			For Class 52 Rating, Deduct	-2,483.75	
			For Class 54 Rating, Add	3,407.36	
			For Class 55 Rating, Add	5,076.10	
			For Class 56 Rating, Add	6,722.27	
40 05 19 00-3000	EA	24"	Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	24,932.85	1,127.53
			For Class 52 Rating, Deduct	-2,554.69	
			For Class 54 Rating, Add	3,504.17	
			For Class 55 Rating, Add	5,220.06	
			For Class 56 Rating, Add	6,912.72	
40 05 19 00-3001	EA	24"	Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	25,673.91	1,190.97
			For Class 52 Rating, Deduct	-2,625.64	
			For Class 54 Rating, Add	3,602.07	
			For Class 55 Rating, Add	5,366.19	
			For Class 56 Rating, Add	7,106.44	
40 05 19 00-3002	EA	24"	Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	26,324.20	1,194.49
			For Class 52 Rating, Deduct	-2,696.58	
			For Class 54 Rating, Add	3,698.87	
			For Class 55 Rating, Add	5,510.14	
			For Class 56 Rating, Add	7,296.89	
40 05 19 00-3003	EA	24"	Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	26,974.49	1,198.01
			For Class 52 Rating, Deduct	-2,767.53	
			For Class 54 Rating, Add	3,795.68	
			For Class 55 Rating, Add	5,654.09	
			For Class 56 Rating, Add	7,487.35	
40 05 19 00-3004	EA	24"	Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	27,624.78	1,201.54
			For Class 52 Rating, Deduct	-2,838.47	
			For Class 54 Rating, Add	3,892.49	
			For Class 55 Rating, Add	5,798.05	
			For Class 56 Rating, Add	7,677.80	
40 05 19 00-3005	EA	24"	Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	28,275.07	1,205.06
			For Class 52 Rating, Deduct	-2,909.42	
			For Class 54 Rating, Add	3,989.29	
			For Class 55 Rating, Add	5,942.00	
			For Class 56 Rating, Add	7,868.25	
40 05 19 00-3006	EA	24"	Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	28,922.33	1,208.58
			For Class 52 Rating, Deduct	-2,980.03	
			For Class 54 Rating, Add	4,085.65	
			For Class 55 Rating, Add	6,085.27	
			For Class 56 Rating, Add	8,057.81	
40 05 19 00-3007	EA	24"	Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	29,575.66	1,212.11
			For Class 52 Rating, Deduct	-3,051.31	
			For Class 54 Rating, Add	4,182.91	
			For Class 55 Rating, Add	6,229.90	
			For Class 56 Rating, Add	8,249.16	
40 05 19 00-3008	EA	24"	Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	30,225.96	1,215.63
			For Class 52 Rating, Deduct	-3,122.25	
			For Class 54 Rating, Add	4,279.72	
			For Class 55 Rating, Add	6,373.86	
			For Class 56 Rating, Add	8,439.62	
40 05 19 00-3009	EA	24"	Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	30,876.25	1,219.15
			For Class 52 Rating, Deduct	-3,193.20	
			For Class 54 Rating, Add	4,376.52	
			For Class 55 Rating, Add	6,517.81	
			For Class 56 Rating, Add	8,630.07	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

40 05 19 00-3010	30" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)		
40 05 19 00-3011	EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,334.50	1,451.71
	For Class 52 Rating, Deduct	-894.84	
	For Class 54 Rating, Add	1,246.64	
	For Class 55 Rating, Add	1,866.88	
	For Class 56 Rating, Add	2,478.99	
40 05 19 00-3012	EA 30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,264.68	1,455.23
	For Class 52 Rating, Deduct	-996.58	
	For Class 54 Rating, Add	1,385.43	
	For Class 55 Rating, Add	2,073.25	
	For Class 56 Rating, Add	2,752.01	
40 05 19 00-3013	EA 30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,194.86	1,458.75
	For Class 52 Rating, Deduct	-1,098.31	
	For Class 54 Rating, Add	1,524.22	
	For Class 55 Rating, Add	2,279.62	
	For Class 56 Rating, Add	3,025.03	
40 05 19 00-3014	EA 30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,125.03	1,462.28
	For Class 52 Rating, Deduct	-1,200.04	
	For Class 54 Rating, Add	1,663.01	
	For Class 55 Rating, Add	2,485.99	
	For Class 56 Rating, Add	3,298.05	
40 05 19 00-3015	EA 30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,055.21	1,465.80
	For Class 52 Rating, Deduct	-1,301.77	
	For Class 54 Rating, Add	1,801.80	
	For Class 55 Rating, Add	2,692.35	
	For Class 56 Rating, Add	3,571.07	
40 05 19 00-3016	EA 30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,985.39	1,469.32
	For Class 52 Rating, Deduct	-1,403.51	
	For Class 54 Rating, Add	1,940.59	
	For Class 55 Rating, Add	2,898.72	
	For Class 56 Rating, Add	3,844.09	
40 05 19 00-3017	EA 30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,915.59	1,472.85
	For Class 52 Rating, Deduct	-1,505.24	
	For Class 54 Rating, Add	2,079.38	
	For Class 55 Rating, Add	3,105.09	
	For Class 56 Rating, Add	4,117.12	
40 05 19 00-3018	EA 30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,845.77	1,476.37
	For Class 52 Rating, Deduct	-1,606.97	
	For Class 54 Rating, Add	2,218.17	
	For Class 55 Rating, Add	3,311.46	
	For Class 56 Rating, Add	4,390.14	
40 05 19 00-3019	EA 30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,775.95	1,479.89
	For Class 52 Rating, Deduct	-1,708.70	
	For Class 54 Rating, Add	2,356.96	
	For Class 55 Rating, Add	3,517.83	
	For Class 56 Rating, Add	4,663.16	
40 05 19 00-3020	EA 30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,706.12	1,483.42
	For Class 52 Rating, Deduct	-1,810.44	
	For Class 54 Rating, Add	2,495.75	
	For Class 55 Rating, Add	3,724.19	
	For Class 56 Rating, Add	4,936.18	
40 05 19 00-3021	EA 30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,636.30	1,486.94
	For Class 52 Rating, Deduct	-1,912.17	
	For Class 54 Rating, Add	2,634.54	
	For Class 55 Rating, Add	3,930.56	
	For Class 56 Rating, Add	5,209.20	
40 05 19 00-3022	EA 30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,566.48	1,490.46
	For Class 52 Rating, Deduct	-2,013.90	
	For Class 54 Rating, Add	2,773.33	
	For Class 55 Rating, Add	4,136.93	
	For Class 56 Rating, Add	5,482.22	
40 05 19 00-3023	EA 30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,496.66	1,493.99
	For Class 52 Rating, Deduct	-2,115.63	
	For Class 54 Rating, Add	2,912.12	
	For Class 55 Rating, Add	4,343.29	
	For Class 56 Rating, Add	5,755.24	
40 05 19 00-3024	EA 30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,426.84	1,497.51
	For Class 52 Rating, Deduct	-2,217.37	
	For Class 54 Rating, Add	3,050.91	
	For Class 55 Rating, Add	4,549.66	
	For Class 56 Rating, Add	6,028.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3025	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,357.02	1,501.03
			For Class 52 Rating, Deduct	-2,319.10	
			For Class 54 Rating, Add	3,189.70	
			For Class 55 Rating, Add	4,756.03	
			For Class 56 Rating, Add	6,301.28	
40 05 19 00-3026	EA		30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,287.19	1,504.56
			For Class 52 Rating, Deduct	-2,420.83	
			For Class 54 Rating, Add	3,328.49	
			For Class 55 Rating, Add	4,962.40	
			For Class 56 Rating, Add	6,574.30	
40 05 19 00-3027	EA		30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,217.38	1,508.08
			For Class 52 Rating, Deduct	-2,522.57	
			For Class 54 Rating, Add	3,467.28	
			For Class 55 Rating, Add	5,168.77	
			For Class 56 Rating, Add	6,847.32	
40 05 19 00-3028	EA		30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,147.56	1,511.60
			For Class 52 Rating, Deduct	-2,624.30	
			For Class 54 Rating, Add	3,606.07	
			For Class 55 Rating, Add	5,375.13	
			For Class 56 Rating, Add	7,120.34	
40 05 19 00-3029	EA		30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,077.74	1,515.13
			For Class 52 Rating, Deduct	-2,726.03	
			For Class 54 Rating, Add	3,744.86	
			For Class 55 Rating, Add	5,581.50	
			For Class 56 Rating, Add	7,393.36	
40 05 19 00-3030	EA		30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,007.92	1,518.65
			For Class 52 Rating, Deduct	-2,827.76	
			For Class 54 Rating, Add	3,883.65	
			For Class 55 Rating, Add	5,787.87	
			For Class 56 Rating, Add	7,666.38	
40 05 19 00-3031	EA		30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,938.09	1,522.18
			For Class 52 Rating, Deduct	-2,929.49	
			For Class 54 Rating, Add	4,022.44	
			For Class 55 Rating, Add	5,994.24	
			For Class 56 Rating, Add	7,939.40	
40 05 19 00-3032	EA		30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,868.27	1,525.70
			For Class 52 Rating, Deduct	-3,031.23	
			For Class 54 Rating, Add	4,161.23	
			For Class 55 Rating, Add	6,200.60	
			For Class 56 Rating, Add	8,212.42	
40 05 19 00-3033	EA		30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,798.45	1,529.22
			For Class 52 Rating, Deduct	-3,132.96	
			For Class 54 Rating, Add	4,300.02	
			For Class 55 Rating, Add	6,406.97	
			For Class 56 Rating, Add	8,485.44	
40 05 19 00-3034	EA		30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,728.63	1,532.75
			For Class 52 Rating, Deduct	-3,234.69	
			For Class 54 Rating, Add	4,438.81	
			For Class 55 Rating, Add	6,613.34	
			For Class 56 Rating, Add	8,758.46	
40 05 19 00-3035	EA		30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,658.81	1,536.27
			For Class 52 Rating, Deduct	-3,336.42	
			For Class 54 Rating, Add	4,577.60	
			For Class 55 Rating, Add	6,819.71	
			For Class 56 Rating, Add	9,031.48	
40 05 19 00-3036	EA		30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,588.99	1,539.79
			For Class 52 Rating, Deduct	-3,438.16	
			For Class 54 Rating, Add	4,716.39	
			For Class 55 Rating, Add	7,026.07	
			For Class 56 Rating, Add	9,304.50	
40 05 19 00-3037	EA		30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,519.16	1,543.32
			For Class 52 Rating, Deduct	-3,539.89	
			For Class 54 Rating, Add	4,855.18	
			For Class 55 Rating, Add	7,232.44	
			For Class 56 Rating, Add	9,577.52	
40 05 19 00-3038	EA		30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,449.35	1,546.84
			For Class 52 Rating, Deduct	-3,641.62	
			For Class 54 Rating, Add	4,993.97	
			For Class 55 Rating, Add	7,438.81	
			For Class 56 Rating, Add	9,850.54	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-3039	EA	30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	36,379.54		1,550.36
		For Class 52 Rating, Deduct	-3,743.36		
		For Class 54 Rating, Add	5,132.76		
		For Class 55 Rating, Add	7,645.18		
		For Class 56 Rating, Add	10,123.56		
40 05 19 00-3040	EA	30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,309.72		1,553.89
		For Class 52 Rating, Deduct	-3,845.09		
		For Class 54 Rating, Add	5,271.55		
		For Class 55 Rating, Add	7,851.55		
		For Class 56 Rating, Add	10,396.58		
40 05 19 00-3041	EA	30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,239.90		1,557.41
		For Class 52 Rating, Deduct	-3,946.82		
		For Class 54 Rating, Add	5,410.34		
		For Class 55 Rating, Add	8,057.91		
		For Class 56 Rating, Add	10,669.60		
40 05 19 00-3042	EA	30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	39,170.08		1,560.93
		For Class 52 Rating, Deduct	-4,048.55		
		For Class 54 Rating, Add	5,549.13		
		For Class 55 Rating, Add	8,264.28		
		For Class 56 Rating, Add	10,942.62		
40 05 19 00-3043	EA	30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,100.25		1,564.46
		For Class 52 Rating, Deduct	-4,150.28		
		For Class 54 Rating, Add	5,687.92		
		For Class 55 Rating, Add	8,470.65		
		For Class 56 Rating, Add	11,215.64		
40 05 19 00-3044	EA	30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,030.43		1,567.98
		For Class 52 Rating, Deduct	-4,252.02		
		For Class 54 Rating, Add	5,826.71		
		For Class 55 Rating, Add	8,677.02		
		For Class 56 Rating, Add	11,488.66		
40 05 19 00-3045	EA	30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,960.61		1,571.50
		For Class 52 Rating, Deduct	-4,353.75		
		For Class 54 Rating, Add	5,965.50		
		For Class 55 Rating, Add	8,883.38		
		For Class 56 Rating, Add	11,761.68		
40 05 19 00-3046 36" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2614)					
40 05 19 00-3047	EA	36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,289.52		1,839.29
		For Class 52 Rating, Deduct	-1,265.30		
		For Class 54 Rating, Add	1,758.85		
		For Class 55 Rating, Add	2,631.99		
		For Class 56 Rating, Add	3,493.62		
40 05 19 00-3048	EA	36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,536.09		1,842.81
		For Class 52 Rating, Deduct	-1,401.83		
		For Class 54 Rating, Add	1,945.10		
		For Class 55 Rating, Add	2,908.91		
		For Class 56 Rating, Add	3,859.98		
40 05 19 00-3049	EA	36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,782.66		1,846.34
		For Class 52 Rating, Deduct	-1,538.37		
		For Class 54 Rating, Add	2,131.35		
		For Class 55 Rating, Add	3,185.83		
		For Class 56 Rating, Add	4,226.34		
40 05 19 00-3050	EA	36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,029.24		1,849.86
		For Class 52 Rating, Deduct	-1,674.91		
		For Class 54 Rating, Add	2,317.60		
		For Class 55 Rating, Add	3,462.76		
		For Class 56 Rating, Add	4,592.69		
40 05 19 00-3051	EA	36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,275.82		1,853.39
		For Class 52 Rating, Deduct	-1,811.44		
		For Class 54 Rating, Add	2,503.85		
		For Class 55 Rating, Add	3,739.68		
		For Class 56 Rating, Add	4,959.05		
40 05 19 00-3052	EA	36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,522.39		1,856.91
		For Class 52 Rating, Deduct	-1,947.98		
		For Class 54 Rating, Add	2,690.09		
		For Class 55 Rating, Add	4,016.60		
		For Class 56 Rating, Add	5,325.41		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3053	EA	36" Flanged x Grooved (F&G), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,768.96	1,860.43
		For Class 52 Rating, Deduct	-2,084.51	
		For Class 54 Rating, Add	2,876.34	
		For Class 55 Rating, Add	4,293.53	
		For Class 56 Rating, Add	5,691.76	
40 05 19 00-3054	EA	36" Flanged x Grooved (F&G), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,015.54	1,863.96
		For Class 52 Rating, Deduct	-2,221.05	
		For Class 54 Rating, Add	3,062.59	
		For Class 55 Rating, Add	4,570.45	
		For Class 56 Rating, Add	6,058.12	
40 05 19 00-3055	EA	36" Flanged x Grooved (F&G), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,262.10	1,867.48
		For Class 52 Rating, Deduct	-2,357.58	
		For Class 54 Rating, Add	3,248.84	
		For Class 55 Rating, Add	4,847.37	
		For Class 56 Rating, Add	6,424.47	
40 05 19 00-3056	EA	36" Flanged x Grooved (F&G), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,508.67	1,871.00
		For Class 52 Rating, Deduct	-2,494.12	
		For Class 54 Rating, Add	3,435.09	
		For Class 55 Rating, Add	5,124.30	
		For Class 56 Rating, Add	6,790.83	
40 05 19 00-3057	EA	36" Flanged x Grooved (F&G), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,755.25	1,874.53
		For Class 52 Rating, Deduct	-2,630.66	
		For Class 54 Rating, Add	3,621.34	
		For Class 55 Rating, Add	5,401.22	
		For Class 56 Rating, Add	7,157.19	
40 05 19 00-3058	EA	36" Flanged x Grooved (F&G), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,001.82	1,878.05
		For Class 52 Rating, Deduct	-2,767.19	
		For Class 54 Rating, Add	3,807.59	
		For Class 55 Rating, Add	5,678.14	
		For Class 56 Rating, Add	7,523.54	
40 05 19 00-3059	EA	36" Flanged x Grooved (F&G), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,248.40	1,881.57
		For Class 52 Rating, Deduct	-2,903.73	
		For Class 54 Rating, Add	3,993.84	
		For Class 55 Rating, Add	5,955.07	
		For Class 56 Rating, Add	7,889.90	
40 05 19 00-3060	EA	36" Flanged x Grooved (F&G), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,494.96	1,885.10
		For Class 52 Rating, Deduct	-3,040.26	
		For Class 54 Rating, Add	4,180.09	
		For Class 55 Rating, Add	6,231.99	
		For Class 56 Rating, Add	8,256.25	
40 05 19 00-3061	EA	36" Flanged x Grooved (F&G), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,741.53	1,888.62
		For Class 52 Rating, Deduct	-3,176.80	
		For Class 54 Rating, Add	4,366.34	
		For Class 55 Rating, Add	6,508.91	
		For Class 56 Rating, Add	8,622.61	
40 05 19 00-3062	EA	36" Flanged x Grooved (F&G), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,988.11	1,892.14
		For Class 52 Rating, Deduct	-3,313.33	
		For Class 54 Rating, Add	4,552.59	
		For Class 55 Rating, Add	6,785.84	
		For Class 56 Rating, Add	8,988.97	
40 05 19 00-3063	EA	36" Flanged x Grooved (F&G), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,234.68	1,895.67
		For Class 52 Rating, Deduct	-3,449.87	
		For Class 54 Rating, Add	4,738.83	
		For Class 55 Rating, Add	7,062.76	
		For Class 56 Rating, Add	9,355.32	
40 05 19 00-3064	EA	36" Flanged x Grooved (F&G), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,481.26	1,899.19
		For Class 52 Rating, Deduct	-3,586.41	
		For Class 54 Rating, Add	4,925.08	
		For Class 55 Rating, Add	7,339.68	
		For Class 56 Rating, Add	9,721.68	
40 05 19 00-3065	EA	36" Flanged x Grooved (F&G), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,727.83	1,902.71
		For Class 52 Rating, Deduct	-3,722.94	
		For Class 54 Rating, Add	5,111.33	
		For Class 55 Rating, Add	7,616.61	
		For Class 56 Rating, Add	10,088.04	
40 05 19 00-3066	EA	36" Flanged x Grooved (F&G), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,974.39	1,906.24
		For Class 52 Rating, Deduct	-3,859.48	
		For Class 54 Rating, Add	5,297.58	
		For Class 55 Rating, Add	7,893.53	
		For Class 56 Rating, Add	10,454.39	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-3067	EA	36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	39,220.97		1,909.76
		For Class 52 Rating, Deduct	-3,996.01		
		For Class 54 Rating, Add	5,483.83		
		For Class 55 Rating, Add	8,170.45		
		For Class 56 Rating, Add	10,820.75		
40 05 19 00-3068	EA	36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	40,467.54		1,913.28
		For Class 52 Rating, Deduct	-4,132.55		
		For Class 54 Rating, Add	5,670.08		
		For Class 55 Rating, Add	8,447.38		
		For Class 56 Rating, Add	11,187.10		
40 05 19 00-3069	EA	36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	41,714.12		1,916.81
		For Class 52 Rating, Deduct	-4,269.08		
		For Class 54 Rating, Add	5,856.33		
		For Class 55 Rating, Add	8,724.30		
		For Class 56 Rating, Add	11,553.46		
40 05 19 00-3070	EA	36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	42,960.69		1,920.33
		For Class 52 Rating, Deduct	-4,405.62		
		For Class 54 Rating, Add	6,042.58		
		For Class 55 Rating, Add	9,001.22		
		For Class 56 Rating, Add	11,919.82		
40 05 19 00-3071	EA	36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	44,207.26		1,923.87
		For Class 52 Rating, Deduct	-4,542.16		
		For Class 54 Rating, Add	6,228.83		
		For Class 55 Rating, Add	9,278.15		
		For Class 56 Rating, Add	12,286.17		
40 05 19 00-3072	EA	36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	45,453.84		1,927.39
		For Class 52 Rating, Deduct	-4,678.69		
		For Class 54 Rating, Add	6,415.08		
		For Class 55 Rating, Add	9,555.07		
		For Class 56 Rating, Add	12,652.53		
40 05 19 00-3073	EA	36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	46,700.41		1,930.91
		For Class 52 Rating, Deduct	-4,815.23		
		For Class 54 Rating, Add	6,601.33		
		For Class 55 Rating, Add	9,831.99		
		For Class 56 Rating, Add	13,018.89		
40 05 19 00-3074	EA	36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	47,946.99		1,934.44
		For Class 52 Rating, Deduct	-4,951.76		
		For Class 54 Rating, Add	6,787.58		
		For Class 55 Rating, Add	10,108.92		
		For Class 56 Rating, Add	13,385.24		
40 05 19 00-3075	EA	36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	49,193.56		1,937.96
		For Class 52 Rating, Deduct	-5,088.30		
		For Class 54 Rating, Add	6,973.82		
		For Class 55 Rating, Add	10,385.84		
		For Class 56 Rating, Add	13,751.60		
40 05 19 00-3076	EA	36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	50,440.13		1,941.48
		For Class 52 Rating, Deduct	-5,224.83		
		For Class 54 Rating, Add	7,160.07		
		For Class 55 Rating, Add	10,662.76		
		For Class 56 Rating, Add	14,117.95		
40 05 19 00-3077	EA	36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	51,686.70		1,945.01
		For Class 52 Rating, Deduct	-5,361.37		
		For Class 54 Rating, Add	7,346.32		
		For Class 55 Rating, Add	10,939.69		
		For Class 56 Rating, Add	14,484.31		
40 05 19 00-3078	EA	36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	52,933.27		1,948.53
		For Class 52 Rating, Deduct	-5,497.91		
		For Class 54 Rating, Add	7,532.57		
		For Class 55 Rating, Add	11,216.61		
		For Class 56 Rating, Add	14,850.67		
40 05 19 00-3079	EA	36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	54,179.84		1,952.05
		For Class 52 Rating, Deduct	-5,634.44		
		For Class 54 Rating, Add	7,718.82		
		For Class 55 Rating, Add	11,493.53		
		For Class 56 Rating, Add	15,217.02		
40 05 19 00-3080	EA	36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	55,426.42		1,955.58
		For Class 52 Rating, Deduct	-5,770.98		
		For Class 54 Rating, Add	7,905.07		
		For Class 55 Rating, Add	11,770.46		
		For Class 56 Rating, Add	15,583.38		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3081	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	56,672.99	1,959.10
			For Class 52 Rating, Deduct	-5,907.51	
			For Class 54 Rating, Add	8,091.32	
			For Class 55 Rating, Add	12,047.38	
			For Class 56 Rating, Add	15,949.73	
40 05 19 00-3082			Flanged End x Plain End (FxPE), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2073)		
40 05 19 00-3083			4" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3084	EA		4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	775.23	172.32
			For Class 52 Rating, Deduct	-56.56	
			For Class 54 Rating, Add	80.25	
			For Class 55 Rating, Add	120.92	
			For Class 56 Rating, Add	161.07	
40 05 19 00-3085	EA		4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	895.40	175.33
			For Class 52 Rating, Deduct	-69.27	
			For Class 54 Rating, Add	97.65	
			For Class 55 Rating, Add	146.81	
			For Class 56 Rating, Add	195.34	
40 05 19 00-3086	EA		4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,015.57	178.36
			For Class 52 Rating, Deduct	-81.99	
			For Class 54 Rating, Add	115.05	
			For Class 55 Rating, Add	172.70	
			For Class 56 Rating, Add	229.61	
40 05 19 00-3087	EA		4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,135.74	181.36
			For Class 52 Rating, Deduct	-94.70	
			For Class 54 Rating, Add	132.44	
			For Class 55 Rating, Add	198.59	
			For Class 56 Rating, Add	263.87	
40 05 19 00-3088	EA		4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,255.91	184.37
			For Class 52 Rating, Deduct	-107.42	
			For Class 54 Rating, Add	149.84	
			For Class 55 Rating, Add	224.48	
			For Class 56 Rating, Add	298.14	
40 05 19 00-3089	EA		4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,376.07	187.39
			For Class 52 Rating, Deduct	-120.14	
			For Class 54 Rating, Add	167.23	
			For Class 55 Rating, Add	250.37	
			For Class 56 Rating, Add	332.41	
40 05 19 00-3090	EA		4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,496.24	190.40
			For Class 52 Rating, Deduct	-132.85	
			For Class 54 Rating, Add	184.63	
			For Class 55 Rating, Add	276.26	
			For Class 56 Rating, Add	366.68	
40 05 19 00-3091	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,616.41	193.41
			For Class 52 Rating, Deduct	-145.57	
			For Class 54 Rating, Add	202.02	
			For Class 55 Rating, Add	302.14	
			For Class 56 Rating, Add	400.94	
40 05 19 00-3092	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,736.58	196.43
			For Class 52 Rating, Deduct	-158.29	
			For Class 54 Rating, Add	219.42	
			For Class 55 Rating, Add	328.03	
			For Class 56 Rating, Add	435.21	
40 05 19 00-3093	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,856.75	199.44
			For Class 52 Rating, Deduct	-171.00	
			For Class 54 Rating, Add	236.81	
			For Class 55 Rating, Add	353.92	
			For Class 56 Rating, Add	469.48	
40 05 19 00-3094	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,976.92	202.45
			For Class 52 Rating, Deduct	-183.72	
			For Class 54 Rating, Add	254.21	
			For Class 55 Rating, Add	379.81	
			For Class 56 Rating, Add	503.75	
40 05 19 00-3095	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,097.09	205.46
			For Class 52 Rating, Deduct	-196.44	
			For Class 54 Rating, Add	271.60	
			For Class 55 Rating, Add	405.70	
			For Class 56 Rating, Add	538.01	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3096	EA	4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,217.26		208.47
		For Class 52 Rating, Deduct	-209.15		
		For Class 54 Rating, Add	289.00		
		For Class 55 Rating, Add	431.59		
		For Class 56 Rating, Add	572.28		
40 05 19 00-3097	EA	4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,337.44		211.50
		For Class 52 Rating, Deduct	-221.87		
		For Class 54 Rating, Add	306.40		
		For Class 55 Rating, Add	457.48		
		For Class 56 Rating, Add	606.55		
40 05 19 00-3098	EA	4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,457.60		214.50
		For Class 52 Rating, Deduct	-234.59		
		For Class 54 Rating, Add	323.79		
		For Class 55 Rating, Add	483.37		
		For Class 56 Rating, Add	640.82		
40 05 19 00-3099	EA	4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,577.78		217.52
		For Class 52 Rating, Deduct	-247.30		
		For Class 54 Rating, Add	341.19		
		For Class 55 Rating, Add	509.26		
		For Class 56 Rating, Add	675.09		
40 05 19 00-3100	EA	4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,697.94		220.53
		For Class 52 Rating, Deduct	-260.02		
		For Class 54 Rating, Add	358.58		
		For Class 55 Rating, Add	535.15		
		For Class 56 Rating, Add	709.36		
40 05 19 00-3101	EA	4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,818.12		223.53
		For Class 52 Rating, Deduct	-272.74		
		For Class 54 Rating, Add	375.98		
		For Class 55 Rating, Add	561.04		
		For Class 56 Rating, Add	743.62		
40 05 19 00-3102	EA	4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,938.28		226.55
		For Class 52 Rating, Deduct	-285.45		
		For Class 54 Rating, Add	393.37		
		For Class 55 Rating, Add	586.93		
		For Class 56 Rating, Add	777.89		
40 05 19 00-3103	EA	4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,058.46		229.56
		For Class 52 Rating, Deduct	-298.17		
		For Class 54 Rating, Add	410.77		
		For Class 55 Rating, Add	612.82		
		For Class 56 Rating, Add	812.16		
40 05 19 00-3104	EA	4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,178.62		232.58
		For Class 52 Rating, Deduct	-310.89		
		For Class 54 Rating, Add	428.16		
		For Class 55 Rating, Add	638.71		
		For Class 56 Rating, Add	846.43		
40 05 19 00-3105	EA	4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,298.80		235.59
		For Class 52 Rating, Deduct	-323.60		
		For Class 54 Rating, Add	445.56		
		For Class 55 Rating, Add	664.60		
		For Class 56 Rating, Add	880.70		
40 05 19 00-3106	EA	4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,418.96		238.60
		For Class 52 Rating, Deduct	-336.32		
		For Class 54 Rating, Add	462.96		
		For Class 55 Rating, Add	690.49		
		For Class 56 Rating, Add	914.96		
40 05 19 00-3107	EA	4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,539.14		241.62
		For Class 52 Rating, Deduct	-349.04		
		For Class 54 Rating, Add	480.35		
		For Class 55 Rating, Add	716.38		
		For Class 56 Rating, Add	949.23		
40 05 19 00-3108	EA	4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,957.44		244.62
		For Class 52 Rating, Deduct	-394.55		
		For Class 54 Rating, Add	542.47		
		For Class 55 Rating, Add	808.75		
		For Class 56 Rating, Add	1,071.45		
40 05 19 00-3109	EA	4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,077.62		247.63
		For Class 52 Rating, Deduct	-407.27		
		For Class 54 Rating, Add	559.86		
		For Class 55 Rating, Add	834.64		
		For Class 56 Rating, Add	1,105.72		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3110	EA	4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,197.78	250.66
		For Class 52 Rating, Deduct	-419.98	
		For Class 54 Rating, Add	577.26	
		For Class 55 Rating, Add	860.53	
		For Class 56 Rating, Add	1,139.98	
40 05 19 00-3111	EA	4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,317.96	253.67
		For Class 52 Rating, Deduct	-432.70	
		For Class 54 Rating, Add	594.66	
		For Class 55 Rating, Add	886.42	
		For Class 56 Rating, Add	1,174.25	
40 05 19 00-3112	EA	4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,438.12	256.67
		For Class 52 Rating, Deduct	-445.41	
		For Class 54 Rating, Add	612.05	
		For Class 55 Rating, Add	912.31	
		For Class 56 Rating, Add	1,208.52	
40 05 19 00-3113	EA	4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,558.30	259.69
		For Class 52 Rating, Deduct	-458.13	
		For Class 54 Rating, Add	629.45	
		For Class 55 Rating, Add	938.20	
		For Class 56 Rating, Add	1,242.79	
40 05 19 00-3114	EA	4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,678.45	262.70
		For Class 52 Rating, Deduct	-470.85	
		For Class 54 Rating, Add	646.84	
		For Class 55 Rating, Add	964.09	
		For Class 56 Rating, Add	1,277.06	
40 05 19 00-3115	EA	4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,798.63	265.72
		For Class 52 Rating, Deduct	-483.56	
		For Class 54 Rating, Add	664.24	
		For Class 55 Rating, Add	989.98	
		For Class 56 Rating, Add	1,311.33	
40 05 19 00-3116	EA	4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,918.79	268.73
		For Class 52 Rating, Deduct	-496.28	
		For Class 54 Rating, Add	681.63	
		For Class 55 Rating, Add	1,015.87	
		For Class 56 Rating, Add	1,345.59	
40 05 19 00-3117	EA	4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,038.97	271.74
		For Class 52 Rating, Deduct	-509.00	
		For Class 54 Rating, Add	699.03	
		For Class 55 Rating, Add	1,041.76	
		For Class 56 Rating, Add	1,379.86	
40 05 19 00-3118	EA	4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,159.13	274.76
		For Class 52 Rating, Deduct	-521.71	
		For Class 54 Rating, Add	716.42	
		For Class 55 Rating, Add	1,067.65	
		For Class 56 Rating, Add	1,414.13	
40 05 19 00-3119	EA	4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,279.31	277.76
		For Class 52 Rating, Deduct	-534.43	
		For Class 54 Rating, Add	733.82	
		For Class 55 Rating, Add	1,093.54	
		For Class 56 Rating, Add	1,448.40	
40 05 19 00-3120	EA	4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,399.47	280.77
		For Class 52 Rating, Deduct	-547.15	
		For Class 54 Rating, Add	751.21	
		For Class 55 Rating, Add	1,119.43	
		For Class 56 Rating, Add	1,482.66	
40 05 19 00-3121	EA	4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,519.65	283.80
		For Class 52 Rating, Deduct	-559.86	
		For Class 54 Rating, Add	768.61	
		For Class 55 Rating, Add	1,145.32	
		For Class 56 Rating, Add	1,516.93	
40 05 19 00-3122	EA	4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,639.81	286.81
		For Class 52 Rating, Deduct	-572.58	
		For Class 54 Rating, Add	786.00	
		For Class 55 Rating, Add	1,171.20	
		For Class 56 Rating, Add	1,551.20	

40 05 19 00-3123 6" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3124	EA	6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	952.31		216.92
		For Class 52 Rating, Deduct	-68.60		
		For Class 54 Rating, Add	97.49		
		For Class 55 Rating, Add	146.96		
		For Class 56 Rating, Add	195.81		
40 05 19 00-3125	EA	6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,090.73		219.93
		For Class 52 Rating, Deduct	-83.33		
		For Class 54 Rating, Add	117.63		
		For Class 55 Rating, Add	176.92		
		For Class 56 Rating, Add	235.46		
40 05 19 00-3126	EA	6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,229.16		222.93
		For Class 52 Rating, Deduct	-98.05		
		For Class 54 Rating, Add	137.76		
		For Class 55 Rating, Add	206.88		
		For Class 56 Rating, Add	275.12		
40 05 19 00-3127	EA	6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,367.57		225.95
		For Class 52 Rating, Deduct	-112.78		
		For Class 54 Rating, Add	157.89		
		For Class 55 Rating, Add	236.84		
		For Class 56 Rating, Add	314.77		
40 05 19 00-3128	EA	6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,506.00		228.96
		For Class 52 Rating, Deduct	-127.50		
		For Class 54 Rating, Add	178.03		
		For Class 55 Rating, Add	266.80		
		For Class 56 Rating, Add	354.42		
40 05 19 00-3129	EA	6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,644.42		231.96
		For Class 52 Rating, Deduct	-142.22		
		For Class 54 Rating, Add	198.16		
		For Class 55 Rating, Add	296.76		
		For Class 56 Rating, Add	394.07		
40 05 19 00-3130	EA	6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,782.85		234.99
		For Class 52 Rating, Deduct	-156.95		
		For Class 54 Rating, Add	218.29		
		For Class 55 Rating, Add	326.72		
		For Class 56 Rating, Add	433.73		
40 05 19 00-3131	EA	6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	1,921.27		238.00
		For Class 52 Rating, Deduct	-171.67		
		For Class 54 Rating, Add	238.43		
		For Class 55 Rating, Add	356.68		
		For Class 56 Rating, Add	473.38		
40 05 19 00-3132	EA	6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,059.70		241.02
		For Class 52 Rating, Deduct	-186.40		
		For Class 54 Rating, Add	258.56		
		For Class 55 Rating, Add	386.64		
		For Class 56 Rating, Add	513.03		
40 05 19 00-3133	EA	6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,198.12		244.02
		For Class 52 Rating, Deduct	-201.12		
		For Class 54 Rating, Add	278.70		
		For Class 55 Rating, Add	416.60		
		For Class 56 Rating, Add	552.69		
40 05 19 00-3134	EA	6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,336.54		247.03
		For Class 52 Rating, Deduct	-215.85		
		For Class 54 Rating, Add	298.83		
		For Class 55 Rating, Add	446.56		
		For Class 56 Rating, Add	592.34		
40 05 19 00-3135	EA	6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,474.96		250.05
		For Class 52 Rating, Deduct	-230.57		
		For Class 54 Rating, Add	318.96		
		For Class 55 Rating, Add	476.52		
		For Class 56 Rating, Add	631.99		
40 05 19 00-3136	EA	6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,613.39		253.06
		For Class 52 Rating, Deduct	-245.30		
		For Class 54 Rating, Add	339.10		
		For Class 55 Rating, Add	506.48		
		For Class 56 Rating, Add	671.64		
40 05 19 00-3137	EA	6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,751.81		256.07
		For Class 52 Rating, Deduct	-260.02		
		For Class 54 Rating, Add	359.23		
		For Class 55 Rating, Add	536.44		
		For Class 56 Rating, Add	711.29		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3138	EA	6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	2,890.24	259.09
		For Class 52 Rating, Deduct	-274.74	
		For Class 54 Rating, Add	379.36	
		For Class 55 Rating, Add	566.40	
		For Class 56 Rating, Add	750.95	
40 05 19 00-3139	EA	6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,028.66	262.10
		For Class 52 Rating, Deduct	-289.47	
		For Class 54 Rating, Add	399.50	
		For Class 55 Rating, Add	596.36	
		For Class 56 Rating, Add	790.60	
40 05 19 00-3140	EA	6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,167.09	265.11
		For Class 52 Rating, Deduct	-304.19	
		For Class 54 Rating, Add	419.63	
		For Class 55 Rating, Add	626.32	
		For Class 56 Rating, Add	830.25	
40 05 19 00-3141	EA	6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,305.49	268.12
		For Class 52 Rating, Deduct	-318.92	
		For Class 54 Rating, Add	439.76	
		For Class 55 Rating, Add	656.28	
		For Class 56 Rating, Add	869.90	
40 05 19 00-3142	EA	6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,443.92	271.14
		For Class 52 Rating, Deduct	-333.64	
		For Class 54 Rating, Add	459.90	
		For Class 55 Rating, Add	686.24	
		For Class 56 Rating, Add	909.56	
40 05 19 00-3143	EA	6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,582.34	274.16
		For Class 52 Rating, Deduct	-348.37	
		For Class 54 Rating, Add	480.03	
		For Class 55 Rating, Add	716.20	
		For Class 56 Rating, Add	949.21	
40 05 19 00-3144	EA	6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,720.77	277.16
		For Class 52 Rating, Deduct	-363.09	
		For Class 54 Rating, Add	500.16	
		For Class 55 Rating, Add	746.16	
		For Class 56 Rating, Add	988.86	
40 05 19 00-3145	EA	6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,859.19	280.17
		For Class 52 Rating, Deduct	-377.82	
		For Class 54 Rating, Add	520.30	
		For Class 55 Rating, Add	776.12	
		For Class 56 Rating, Add	1,028.52	
40 05 19 00-3146	EA	6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,997.62	283.19
		For Class 52 Rating, Deduct	-392.54	
		For Class 54 Rating, Add	540.43	
		For Class 55 Rating, Add	806.08	
		For Class 56 Rating, Add	1,068.17	
40 05 19 00-3147	EA	6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	4,136.04	286.19
		For Class 52 Rating, Deduct	-407.27	
		For Class 54 Rating, Add	560.57	
		For Class 55 Rating, Add	836.04	
		For Class 56 Rating, Add	1,107.82	
40 05 19 00-3148	EA	6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	4,274.46	289.22
		For Class 52 Rating, Deduct	-421.99	
		For Class 54 Rating, Add	580.70	
		For Class 55 Rating, Add	866.00	
		For Class 56 Rating, Add	1,147.47	
40 05 19 00-3149	EA	6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	4,412.88	292.23
		For Class 52 Rating, Deduct	-436.71	
		For Class 54 Rating, Add	600.83	
		For Class 55 Rating, Add	895.96	
		For Class 56 Rating, Add	1,187.12	
40 05 19 00-3150	EA	6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	4,551.31	295.24
		For Class 52 Rating, Deduct	-451.44	
		For Class 54 Rating, Add	620.96	
		For Class 55 Rating, Add	925.92	
		For Class 56 Rating, Add	1,226.78	
40 05 19 00-3151	EA	6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	4,689.73	298.25
		For Class 52 Rating, Deduct	-466.16	
		For Class 54 Rating, Add	641.10	
		For Class 55 Rating, Add	955.88	
		For Class 56 Rating, Add	1,266.43	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3152	EA	6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,828.16		301.26
		For Class 52 Rating, Deduct	-480.89		
		For Class 54 Rating, Add	661.23		
		For Class 55 Rating, Add	985.84		
		For Class 56 Rating, Add	1,306.08		
40 05 19 00-3153	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,966.58		304.28
		For Class 52 Rating, Deduct	-495.61		
		For Class 54 Rating, Add	681.37		
		For Class 55 Rating, Add	1,015.80		
		For Class 56 Rating, Add	1,345.74		
40 05 19 00-3154	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,105.01		307.29
		For Class 52 Rating, Deduct	-510.34		
		For Class 54 Rating, Add	701.50		
		For Class 55 Rating, Add	1,045.76		
		For Class 56 Rating, Add	1,385.39		
40 05 19 00-3155	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,243.42		310.30
		For Class 52 Rating, Deduct	-525.06		
		For Class 54 Rating, Add	721.63		
		For Class 55 Rating, Add	1,075.72		
		For Class 56 Rating, Add	1,425.04		
40 05 19 00-3156	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,381.85		313.31
		For Class 52 Rating, Deduct	-539.78		
		For Class 54 Rating, Add	741.77		
		For Class 55 Rating, Add	1,105.68		
		For Class 56 Rating, Add	1,464.69		
40 05 19 00-3157	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,520.27		316.33
		For Class 52 Rating, Deduct	-554.51		
		For Class 54 Rating, Add	761.90		
		For Class 55 Rating, Add	1,135.64		
		For Class 56 Rating, Add	1,504.35		
40 05 19 00-3158	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,658.70		319.33
		For Class 52 Rating, Deduct	-569.23		
		For Class 54 Rating, Add	782.03		
		For Class 55 Rating, Add	1,165.60		
		For Class 56 Rating, Add	1,544.00		
40 05 19 00-3159	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,797.12		322.36
		For Class 52 Rating, Deduct	-583.96		
		For Class 54 Rating, Add	802.17		
		For Class 55 Rating, Add	1,195.56		
		For Class 56 Rating, Add	1,583.65		
40 05 19 00-3160	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,935.55		325.37
		For Class 52 Rating, Deduct	-598.68		
		For Class 54 Rating, Add	822.30		
		For Class 55 Rating, Add	1,225.52		
		For Class 56 Rating, Add	1,623.31		
40 05 19 00-3161	EA	6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,073.97		328.37
		For Class 52 Rating, Deduct	-613.41		
		For Class 54 Rating, Add	842.43		
		For Class 55 Rating, Add	1,255.48		
		For Class 56 Rating, Add	1,662.96		
40 05 19 00-3162	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,212.39		331.39
		For Class 52 Rating, Deduct	-628.13		
		For Class 54 Rating, Add	862.57		
		For Class 55 Rating, Add	1,285.44		
		For Class 56 Rating, Add	1,702.61		

40 05 19 00-3163 8" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)

40 05 19 00-3164	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,299.15		277.16
		For Class 52 Rating, Deduct	-96.71		
		For Class 54 Rating, Add	136.92		
		For Class 55 Rating, Add	206.14		
		For Class 56 Rating, Add	274.48		
40 05 19 00-3165	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,477.12		280.17
		For Class 52 Rating, Deduct	-115.79		
		For Class 54 Rating, Add	162.99		
		For Class 55 Rating, Add	244.92		
		For Class 56 Rating, Add	325.80		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3166	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	1,655.09	283.19
		For Class 52 Rating, Deduct	-134.86	
		For Class 54 Rating, Add	189.05	
		For Class 55 Rating, Add	283.70	
		For Class 56 Rating, Add	377.12	
40 05 19 00-3167	EA	8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	1,833.06	286.19
		For Class 52 Rating, Deduct	-153.94	
		For Class 54 Rating, Add	215.12	
		For Class 55 Rating, Add	322.48	
		For Class 56 Rating, Add	428.44	
40 05 19 00-3168	EA	8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	2,011.04	289.22
		For Class 52 Rating, Deduct	-173.01	
		For Class 54 Rating, Add	241.18	
		For Class 55 Rating, Add	361.26	
		For Class 56 Rating, Add	479.76	
40 05 19 00-3169	EA	8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	2,189.01	292.23
		For Class 52 Rating, Deduct	-192.09	
		For Class 54 Rating, Add	267.25	
		For Class 55 Rating, Add	400.04	
		For Class 56 Rating, Add	531.08	
40 05 19 00-3170	EA	8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	2,366.98	295.24
		For Class 52 Rating, Deduct	-211.16	
		For Class 54 Rating, Add	293.32	
		For Class 55 Rating, Add	438.82	
		For Class 56 Rating, Add	582.40	
40 05 19 00-3171	EA	8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	2,544.95	298.25
		For Class 52 Rating, Deduct	-230.24	
		For Class 54 Rating, Add	319.38	
		For Class 55 Rating, Add	477.60	
		For Class 56 Rating, Add	633.72	
40 05 19 00-3172	EA	8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	2,722.93	301.26
		For Class 52 Rating, Deduct	-249.31	
		For Class 54 Rating, Add	345.45	
		For Class 55 Rating, Add	516.38	
		For Class 56 Rating, Add	685.04	
40 05 19 00-3173	EA	8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	2,900.90	304.28
		For Class 52 Rating, Deduct	-268.39	
		For Class 54 Rating, Add	371.51	
		For Class 55 Rating, Add	555.16	
		For Class 56 Rating, Add	736.36	
40 05 19 00-3174	EA	8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,078.87	307.29
		For Class 52 Rating, Deduct	-287.46	
		For Class 54 Rating, Add	397.58	
		For Class 55 Rating, Add	593.94	
		For Class 56 Rating, Add	787.68	
40 05 19 00-3175	EA	8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,256.84	310.30
		For Class 52 Rating, Deduct	-306.54	
		For Class 54 Rating, Add	423.65	
		For Class 55 Rating, Add	632.72	
		For Class 56 Rating, Add	839.00	
40 05 19 00-3176	EA	8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,434.82	313.31
		For Class 52 Rating, Deduct	-325.61	
		For Class 54 Rating, Add	449.71	
		For Class 55 Rating, Add	671.50	
		For Class 56 Rating, Add	890.32	
40 05 19 00-3177	EA	8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,612.79	316.33
		For Class 52 Rating, Deduct	-344.69	
		For Class 54 Rating, Add	475.78	
		For Class 55 Rating, Add	710.28	
		For Class 56 Rating, Add	941.64	
40 05 19 00-3178	EA	8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,790.76	319.33
		For Class 52 Rating, Deduct	-363.76	
		For Class 54 Rating, Add	501.84	
		For Class 55 Rating, Add	749.05	
		For Class 56 Rating, Add	992.96	
40 05 19 00-3179	EA	8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	3,968.73	322.36
		For Class 52 Rating, Deduct	-382.84	
		For Class 54 Rating, Add	527.91	
		For Class 55 Rating, Add	787.83	
		For Class 56 Rating, Add	1,044.28	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
40 05 19 00-3180	EA 8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	4,146.71		325.37
	For Class 52 Rating, Deduct	-401.91		
	For Class 54 Rating, Add	553.98		
	For Class 55 Rating, Add	826.61		
	For Class 56 Rating, Add	1,095.60		
40 05 19 00-3181	EA 8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	4,324.68		328.37
	For Class 52 Rating, Deduct	-420.99		
	For Class 54 Rating, Add	580.04		
	For Class 55 Rating, Add	865.39		
	For Class 56 Rating, Add	1,146.92		
40 05 19 00-3182	EA 8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	4,502.66		331.39
	For Class 52 Rating, Deduct	-440.06		
	For Class 54 Rating, Add	606.11		
	For Class 55 Rating, Add	904.17		
	For Class 56 Rating, Add	1,198.24		
40 05 19 00-3183	EA 8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	4,680.62		334.40
	For Class 52 Rating, Deduct	-459.13		
	For Class 54 Rating, Add	632.17		
	For Class 55 Rating, Add	942.95		
	For Class 56 Rating, Add	1,249.56		
40 05 19 00-3184	EA 8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	4,858.60		337.42
	For Class 52 Rating, Deduct	-478.21		
	For Class 54 Rating, Add	658.24		
	For Class 55 Rating, Add	981.73		
	For Class 56 Rating, Add	1,300.88		
40 05 19 00-3185	EA 8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	5,036.57		340.43
	For Class 52 Rating, Deduct	-497.28		
	For Class 54 Rating, Add	684.31		
	For Class 55 Rating, Add	1,020.51		
	For Class 56 Rating, Add	1,352.20		
40 05 19 00-3186	EA 8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	5,214.55		343.44
	For Class 52 Rating, Deduct	-516.36		
	For Class 54 Rating, Add	710.37		
	For Class 55 Rating, Add	1,059.29		
	For Class 56 Rating, Add	1,403.52		
40 05 19 00-3187	EA 8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	5,392.50		346.46
	For Class 52 Rating, Deduct	-535.43		
	For Class 54 Rating, Add	736.44		
	For Class 55 Rating, Add	1,098.07		
	For Class 56 Rating, Add	1,454.83		
40 05 19 00-3188	EA 8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	5,570.48		349.47
	For Class 52 Rating, Deduct	-554.51		
	For Class 54 Rating, Add	762.50		
	For Class 55 Rating, Add	1,136.85		
	For Class 56 Rating, Add	1,506.15		
40 05 19 00-3189	EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	5,748.45		352.47
	For Class 52 Rating, Deduct	-573.58		
	For Class 54 Rating, Add	788.57		
	For Class 55 Rating, Add	1,175.63		
	For Class 56 Rating, Add	1,557.47		
40 05 19 00-3190	EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	5,926.43		355.50
	For Class 52 Rating, Deduct	-592.66		
	For Class 54 Rating, Add	814.63		
	For Class 55 Rating, Add	1,214.41		
	For Class 56 Rating, Add	1,608.79		
40 05 19 00-3191	EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	6,104.39		358.51
	For Class 52 Rating, Deduct	-611.73		
	For Class 54 Rating, Add	840.70		
	For Class 55 Rating, Add	1,253.19		
	For Class 56 Rating, Add	1,660.11		
40 05 19 00-3192	EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	6,282.37		361.51
	For Class 52 Rating, Deduct	-630.81		
	For Class 54 Rating, Add	866.77		
	For Class 55 Rating, Add	1,291.97		
	For Class 56 Rating, Add	1,711.43		
40 05 19 00-3193	EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
	Coat, Ductile Iron Pipe.....	6,460.34		364.53
	For Class 52 Rating, Deduct	-649.88		
	For Class 54 Rating, Add	892.83		
	For Class 55 Rating, Add	1,330.75		
	For Class 56 Rating, Add	1,762.75		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3194	EA	8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,638.32	367.54
		For Class 52 Rating, Deduct	-668.96	
		For Class 54 Rating, Add	918.90	
		For Class 55 Rating, Add	1,369.53	
		For Class 56 Rating, Add	1,814.07	
40 05 19 00-3195	EA	8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,816.29	370.56
		For Class 52 Rating, Deduct	-688.03	
		For Class 54 Rating, Add	944.96	
		For Class 55 Rating, Add	1,408.31	
		For Class 56 Rating, Add	1,865.39	
40 05 19 00-3196	EA	8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,994.26	373.57
		For Class 52 Rating, Deduct	-707.11	
		For Class 54 Rating, Add	971.03	
		For Class 55 Rating, Add	1,447.08	
		For Class 56 Rating, Add	1,916.71	
40 05 19 00-3197	EA	8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,172.23	376.58
		For Class 52 Rating, Deduct	-726.18	
		For Class 54 Rating, Add	997.10	
		For Class 55 Rating, Add	1,485.86	
		For Class 56 Rating, Add	1,968.03	
40 05 19 00-3198	EA	8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,350.21	379.60
		For Class 52 Rating, Deduct	-745.26	
		For Class 54 Rating, Add	1,023.16	
		For Class 55 Rating, Add	1,524.64	
		For Class 56 Rating, Add	2,019.35	
40 05 19 00-3199	EA	8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,528.18	382.60
		For Class 52 Rating, Deduct	-764.33	
		For Class 54 Rating, Add	1,049.23	
		For Class 55 Rating, Add	1,563.42	
		For Class 56 Rating, Add	2,070.67	
40 05 19 00-3200	EA	8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,706.15	385.61
		For Class 52 Rating, Deduct	-783.41	
		For Class 54 Rating, Add	1,075.29	
		For Class 55 Rating, Add	1,602.20	
		For Class 56 Rating, Add	2,121.99	
40 05 19 00-3201	EA	8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,884.12	388.63
		For Class 52 Rating, Deduct	-802.48	
		For Class 54 Rating, Add	1,101.36	
		For Class 55 Rating, Add	1,640.98	
		For Class 56 Rating, Add	2,173.31	
40 05 19 00-3202	EA	8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,062.10	391.65
		For Class 52 Rating, Deduct	-821.56	
		For Class 54 Rating, Add	1,127.43	
		For Class 55 Rating, Add	1,679.76	
		For Class 56 Rating, Add	2,224.63	
40 05 19 00-3203		10" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3204	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,639.91	337.42
		For Class 52 Rating, Deduct	-124.15	
		For Class 54 Rating, Add	175.44	
		For Class 55 Rating, Add	263.96	
		For Class 56 Rating, Add	351.36	
40 05 19 00-3205	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,869.60	340.43
		For Class 52 Rating, Deduct	-148.92	
		For Class 54 Rating, Add	209.26	
		For Class 55 Rating, Add	314.28	
		For Class 56 Rating, Add	417.94	
40 05 19 00-3206	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,099.29	343.44
		For Class 52 Rating, Deduct	-173.68	
		For Class 54 Rating, Add	243.08	
		For Class 55 Rating, Add	364.59	
		For Class 56 Rating, Add	484.51	
40 05 19 00-3207	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,328.97	346.46
		For Class 52 Rating, Deduct	-198.45	
		For Class 54 Rating, Add	276.91	
		For Class 55 Rating, Add	414.90	
		For Class 56 Rating, Add	551.09	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3208	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,558.66		349.47
		For Class 52 Rating, Deduct	-223.21		
		For Class 54 Rating, Add	310.73		
		For Class 55 Rating, Add	465.21		
		For Class 56 Rating, Add	617.67		
40 05 19 00-3209	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	2,788.35		352.47
		For Class 52 Rating, Deduct	-247.97		
		For Class 54 Rating, Add	344.55		
		For Class 55 Rating, Add	515.53		
		For Class 56 Rating, Add	684.24		
40 05 19 00-3210	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,018.05		355.50
		For Class 52 Rating, Deduct	-272.74		
		For Class 54 Rating, Add	378.38		
		For Class 55 Rating, Add	565.84		
		For Class 56 Rating, Add	750.82		
40 05 19 00-3211	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,247.73		358.51
		For Class 52 Rating, Deduct	-297.50		
		For Class 54 Rating, Add	412.20		
		For Class 55 Rating, Add	616.15		
		For Class 56 Rating, Add	817.40		
40 05 19 00-3212	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,477.43		361.51
		For Class 52 Rating, Deduct	-322.26		
		For Class 54 Rating, Add	446.03		
		For Class 55 Rating, Add	666.46		
		For Class 56 Rating, Add	883.97		
40 05 19 00-3213	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,707.11		364.53
		For Class 52 Rating, Deduct	-347.03		
		For Class 54 Rating, Add	479.85		
		For Class 55 Rating, Add	716.78		
		For Class 56 Rating, Add	950.55		
40 05 19 00-3214	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	3,936.81		367.54
		For Class 52 Rating, Deduct	-371.79		
		For Class 54 Rating, Add	513.67		
		For Class 55 Rating, Add	767.09		
		For Class 56 Rating, Add	1,017.13		
40 05 19 00-3215	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,166.49		370.56
		For Class 52 Rating, Deduct	-396.56		
		For Class 54 Rating, Add	547.49		
		For Class 55 Rating, Add	817.40		
		For Class 56 Rating, Add	1,083.70		
40 05 19 00-3216	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,396.19		373.57
		For Class 52 Rating, Deduct	-421.32		
		For Class 54 Rating, Add	581.32		
		For Class 55 Rating, Add	867.71		
		For Class 56 Rating, Add	1,150.28		
40 05 19 00-3217	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,625.88		376.58
		For Class 52 Rating, Deduct	-446.08		
		For Class 54 Rating, Add	615.14		
		For Class 55 Rating, Add	918.03		
		For Class 56 Rating, Add	1,216.86		
40 05 19 00-3218	EA	10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	4,855.57		379.60
		For Class 52 Rating, Deduct	-470.85		
		For Class 54 Rating, Add	648.97		
		For Class 55 Rating, Add	968.34		
		For Class 56 Rating, Add	1,283.43		
40 05 19 00-3219	EA	10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,085.26		382.60
		For Class 52 Rating, Deduct	-495.61		
		For Class 54 Rating, Add	682.79		
		For Class 55 Rating, Add	1,018.65		
		For Class 56 Rating, Add	1,350.01		
40 05 19 00-3220	EA	10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,314.95		385.61
		For Class 52 Rating, Deduct	-520.37		
		For Class 54 Rating, Add	716.61		
		For Class 55 Rating, Add	1,068.96		
		For Class 56 Rating, Add	1,416.58		
40 05 19 00-3221	EA	10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,544.64		388.63
		For Class 52 Rating, Deduct	-545.14		
		For Class 54 Rating, Add	750.44		
		For Class 55 Rating, Add	1,119.28		
		For Class 56 Rating, Add	1,483.16		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3222	EA		10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	5,774.33	391.65
			For Class 52 Rating, Deduct	-569.90	
			For Class 54 Rating, Add	784.26	
			For Class 55 Rating, Add	1,169.59	
			For Class 56 Rating, Add	1,549.74	
40 05 19 00-3223	EA		10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,004.02	394.65
			For Class 52 Rating, Deduct	-594.67	
			For Class 54 Rating, Add	818.08	
			For Class 55 Rating, Add	1,219.90	
			For Class 56 Rating, Add	1,616.31	
40 05 19 00-3224	EA		10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,233.72	397.67
			For Class 52 Rating, Deduct	-619.43	
			For Class 54 Rating, Add	851.91	
			For Class 55 Rating, Add	1,270.22	
			For Class 56 Rating, Add	1,682.89	
40 05 19 00-3225	EA		10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,463.40	400.68
			For Class 52 Rating, Deduct	-644.19	
			For Class 54 Rating, Add	885.73	
			For Class 55 Rating, Add	1,320.53	
			For Class 56 Rating, Add	1,749.47	
40 05 19 00-3226	EA		10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,693.10	403.69
			For Class 52 Rating, Deduct	-668.96	
			For Class 54 Rating, Add	919.56	
			For Class 55 Rating, Add	1,370.84	
			For Class 56 Rating, Add	1,816.04	
40 05 19 00-3227	EA		10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	6,922.78	406.70
			For Class 52 Rating, Deduct	-693.72	
			For Class 54 Rating, Add	953.38	
			For Class 55 Rating, Add	1,421.15	
			For Class 56 Rating, Add	1,882.62	
40 05 19 00-3228	EA		10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,152.48	409.72
			For Class 52 Rating, Deduct	-718.49	
			For Class 54 Rating, Add	987.20	
			For Class 55 Rating, Add	1,471.47	
			For Class 56 Rating, Add	1,949.20	
40 05 19 00-3229	EA		10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,382.17	412.74
			For Class 52 Rating, Deduct	-743.25	
			For Class 54 Rating, Add	1,021.03	
			For Class 55 Rating, Add	1,521.78	
			For Class 56 Rating, Add	2,015.77	
40 05 19 00-3230	EA		10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,611.86	415.74
			For Class 52 Rating, Deduct	-768.01	
			For Class 54 Rating, Add	1,054.85	
			For Class 55 Rating, Add	1,572.09	
			For Class 56 Rating, Add	2,082.35	
40 05 19 00-3231	EA		10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	7,841.55	418.75
			For Class 52 Rating, Deduct	-792.78	
			For Class 54 Rating, Add	1,088.67	
			For Class 55 Rating, Add	1,622.40	
			For Class 56 Rating, Add	2,148.93	
40 05 19 00-3232	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,071.23	421.77
			For Class 52 Rating, Deduct	-817.54	
			For Class 54 Rating, Add	1,122.50	
			For Class 55 Rating, Add	1,672.72	
			For Class 56 Rating, Add	2,215.50	
40 05 19 00-3233	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,300.92	424.79
			For Class 52 Rating, Deduct	-842.31	
			For Class 54 Rating, Add	1,156.32	
			For Class 55 Rating, Add	1,723.03	
			For Class 56 Rating, Add	2,282.08	
40 05 19 00-3234	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,530.61	427.79
			For Class 52 Rating, Deduct	-867.07	
			For Class 54 Rating, Add	1,190.14	
			For Class 55 Rating, Add	1,773.34	
			For Class 56 Rating, Add	2,348.65	
40 05 19 00-3235	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe	8,760.30	430.81
			For Class 52 Rating, Deduct	-891.83	
			For Class 54 Rating, Add	1,223.97	
			For Class 55 Rating, Add	1,823.65	
			For Class 56 Rating, Add	2,415.23	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
40 05 19 00-3236	EA	10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,990.00		433.82	
		For Class 52 Rating, Deduct	-916.60			
		For Class 54 Rating, Add	1,257.79			
		For Class 55 Rating, Add	1,873.97			
		For Class 56 Rating, Add	2,481.81			
40 05 19 00-3237	EA	10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,219.68		436.83	
		For Class 52 Rating, Deduct	-941.36			
		For Class 54 Rating, Add	1,291.62			
		For Class 55 Rating, Add	1,924.28			
		For Class 56 Rating, Add	2,548.38			
40 05 19 00-3238	EA	10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,449.38		439.84	
		For Class 52 Rating, Deduct	-966.12			
		For Class 54 Rating, Add	1,325.44			
		For Class 55 Rating, Add	1,974.59			
		For Class 56 Rating, Add	2,614.96			
40 05 19 00-3239	EA	10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,679.06		442.86	
		For Class 52 Rating, Deduct	-990.89			
		For Class 54 Rating, Add	1,359.26			
		For Class 55 Rating, Add	2,024.90			
		For Class 56 Rating, Add	2,681.54			
40 05 19 00-3240	EA	10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,908.76		445.88	
		For Class 52 Rating, Deduct	-1,015.65			
		For Class 54 Rating, Add	1,393.09			
		For Class 55 Rating, Add	2,075.22			
		For Class 56 Rating, Add	2,748.11			
40 05 19 00-3241	EA	10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,138.44		448.88	
		For Class 52 Rating, Deduct	-1,040.42			
		For Class 54 Rating, Add	1,426.91			
		For Class 55 Rating, Add	2,125.53			
		For Class 56 Rating, Add	2,814.69			
40 05 19 00-3242	EA	10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,368.14		451.89	
		For Class 52 Rating, Deduct	-1,065.18			
		For Class 54 Rating, Add	1,460.73			
		For Class 55 Rating, Add	2,175.84			
		For Class 56 Rating, Add	2,881.27			
40 05 19 00-3243 12" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe						
(40 05 19 00-3082)						
40 05 19 00-3244	EA	12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,129.74		421.77	
		For Class 52 Rating, Deduct	-163.98			
		For Class 54 Rating, Add	231.27			
		For Class 55 Rating, Add	347.76			
		For Class 56 Rating, Add	462.76			
40 05 19 00-3245	EA	12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,414.18		424.79	
		For Class 52 Rating, Deduct	-194.76			
		For Class 54 Rating, Add	273.31			
		For Class 55 Rating, Add	410.29			
		For Class 56 Rating, Add	545.49			
40 05 19 00-3246	EA	12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,698.64		427.79	
		For Class 52 Rating, Deduct	-225.55			
		For Class 54 Rating, Add	315.35			
		For Class 55 Rating, Add	472.81			
		For Class 56 Rating, Add	628.22			
40 05 19 00-3247	EA	12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,983.09		430.81	
		For Class 52 Rating, Deduct	-256.34			
		For Class 54 Rating, Add	357.39			
		For Class 55 Rating, Add	535.34			
		For Class 56 Rating, Add	710.95			
40 05 19 00-3248	EA	12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,267.54		433.82	
		For Class 52 Rating, Deduct	-287.13			
		For Class 54 Rating, Add	399.42			
		For Class 55 Rating, Add	597.86			
		For Class 56 Rating, Add	793.68			
40 05 19 00-3249	EA	12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,551.99		436.83	
		For Class 52 Rating, Deduct	-317.91			
		For Class 54 Rating, Add	441.46			
		For Class 55 Rating, Add	660.38			
		For Class 56 Rating, Add	876.42			



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3250	EA	12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,836.44	439.84
		For Class 52 Rating, Deduct	-348.70	
		For Class 54 Rating, Add	483.50	
		For Class 55 Rating, Add	722.91	
		For Class 56 Rating, Add	959.14	
40 05 19 00-3251	EA	12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,120.89	442.86
		For Class 52 Rating, Deduct	-379.49	
		For Class 54 Rating, Add	525.54	
		For Class 55 Rating, Add	785.43	
		For Class 56 Rating, Add	1,041.88	
40 05 19 00-3252	EA	12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,405.35	445.88
		For Class 52 Rating, Deduct	-410.28	
		For Class 54 Rating, Add	567.58	
		For Class 55 Rating, Add	847.96	
		For Class 56 Rating, Add	1,124.61	
40 05 19 00-3253	EA	12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,689.79	448.88
		For Class 52 Rating, Deduct	-441.06	
		For Class 54 Rating, Add	609.61	
		For Class 55 Rating, Add	910.48	
		For Class 56 Rating, Add	1,207.34	
40 05 19 00-3254	EA	12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,974.25	451.89
		For Class 52 Rating, Deduct	-471.85	
		For Class 54 Rating, Add	651.65	
		For Class 55 Rating, Add	973.00	
		For Class 56 Rating, Add	1,290.07	
40 05 19 00-3255	EA	12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,258.69	454.91
		For Class 52 Rating, Deduct	-502.64	
		For Class 54 Rating, Add	693.69	
		For Class 55 Rating, Add	1,035.53	
		For Class 56 Rating, Add	1,372.80	
40 05 19 00-3256	EA	12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,543.15	457.91
		For Class 52 Rating, Deduct	-533.43	
		For Class 54 Rating, Add	735.73	
		For Class 55 Rating, Add	1,098.05	
		For Class 56 Rating, Add	1,455.53	
40 05 19 00-3257	EA	12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,827.60	460.94
		For Class 52 Rating, Deduct	-564.21	
		For Class 54 Rating, Add	777.76	
		For Class 55 Rating, Add	1,160.58	
		For Class 56 Rating, Add	1,538.26	
40 05 19 00-3258	EA	12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,112.05	463.95
		For Class 52 Rating, Deduct	-595.00	
		For Class 54 Rating, Add	819.80	
		For Class 55 Rating, Add	1,223.10	
		For Class 56 Rating, Add	1,620.99	
40 05 19 00-3259	EA	12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,396.50	466.96
		For Class 52 Rating, Deduct	-625.79	
		For Class 54 Rating, Add	861.84	
		For Class 55 Rating, Add	1,285.63	
		For Class 56 Rating, Add	1,703.72	
40 05 19 00-3260	EA	12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,680.95	469.97
		For Class 52 Rating, Deduct	-656.58	
		For Class 54 Rating, Add	903.88	
		For Class 55 Rating, Add	1,348.15	
		For Class 56 Rating, Add	1,786.45	
40 05 19 00-3261	EA	12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,965.40	472.98
		For Class 52 Rating, Deduct	-687.36	
		For Class 54 Rating, Add	945.91	
		For Class 55 Rating, Add	1,410.67	
		For Class 56 Rating, Add	1,869.18	
40 05 19 00-3262	EA	12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,249.86	476.00
		For Class 52 Rating, Deduct	-718.15	
		For Class 54 Rating, Add	987.95	
		For Class 55 Rating, Add	1,473.20	
		For Class 56 Rating, Add	1,951.92	
40 05 19 00-3263	EA	12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,534.30	479.01
		For Class 52 Rating, Deduct	-748.94	
		For Class 54 Rating, Add	1,029.99	
		For Class 55 Rating, Add	1,535.72	
		For Class 56 Rating, Add	2,034.64	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3264	EA	12" Flanged x Plain End (FxEPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,818.76		482.02
		For Class 52 Rating, Deduct	-779.73		
		For Class 54 Rating, Add	1,072.03		
		For Class 55 Rating, Add	1,598.25		
		For Class 56 Rating, Add	2,117.38		
40 05 19 00-3265	EA	12" Flanged x Plain End (FxEPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,103.21		485.04
		For Class 52 Rating, Deduct	-810.51		
		For Class 54 Rating, Add	1,114.07		
		For Class 55 Rating, Add	1,660.77		
		For Class 56 Rating, Add	2,200.11		
40 05 19 00-3266	EA	12" Flanged x Plain End (FxEPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,387.66		488.05
		For Class 52 Rating, Deduct	-841.30		
		For Class 54 Rating, Add	1,156.10		
		For Class 55 Rating, Add	1,723.29		
		For Class 56 Rating, Add	2,282.84		
40 05 19 00-3267	EA	12" Flanged x Plain End (FxEPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,672.11		491.05
		For Class 52 Rating, Deduct	-872.09		
		For Class 54 Rating, Add	1,198.14		
		For Class 55 Rating, Add	1,785.82		
		For Class 56 Rating, Add	2,365.57		
40 05 19 00-3268	EA	12" Flanged x Plain End (FxEPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,956.56		494.08
		For Class 52 Rating, Deduct	-902.88		
		For Class 54 Rating, Add	1,240.18		
		For Class 55 Rating, Add	1,848.34		
		For Class 56 Rating, Add	2,448.30		
40 05 19 00-3269	EA	12" Flanged x Plain End (FxEPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,241.00		497.09
		For Class 52 Rating, Deduct	-933.66		
		For Class 54 Rating, Add	1,282.22		
		For Class 55 Rating, Add	1,910.87		
		For Class 56 Rating, Add	2,531.03		
40 05 19 00-3270	EA	12" Flanged x Plain End (FxEPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,525.46		500.10
		For Class 52 Rating, Deduct	-964.45		
		For Class 54 Rating, Add	1,324.25		
		For Class 55 Rating, Add	1,973.39		
		For Class 56 Rating, Add	2,613.76		
40 05 19 00-3271	EA	12" Flanged x Plain End (FxEPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,809.90		503.11
		For Class 52 Rating, Deduct	-995.24		
		For Class 54 Rating, Add	1,366.29		
		For Class 55 Rating, Add	2,035.91		
		For Class 56 Rating, Add	2,696.49		
40 05 19 00-3272	EA	12" Flanged x Plain End (FxEPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,094.36		506.12
		For Class 52 Rating, Deduct	-1,026.03		
		For Class 54 Rating, Add	1,408.33		
		For Class 55 Rating, Add	2,098.44		
		For Class 56 Rating, Add	2,779.22		
40 05 19 00-3273	EA	12" Flanged x Plain End (FxEPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,378.80		509.14
		For Class 52 Rating, Deduct	-1,056.81		
		For Class 54 Rating, Add	1,450.37		
		For Class 55 Rating, Add	2,160.96		
		For Class 56 Rating, Add	2,861.95		
40 05 19 00-3274	EA	12" Flanged x Plain End (FxEPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,663.26		512.14
		For Class 52 Rating, Deduct	-1,087.60		
		For Class 54 Rating, Add	1,492.40		
		For Class 55 Rating, Add	2,223.49		
		For Class 56 Rating, Add	2,944.68		
40 05 19 00-3275	EA	12" Flanged x Plain End (FxEPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,947.71		515.16
		For Class 52 Rating, Deduct	-1,118.39		
		For Class 54 Rating, Add	1,534.44		
		For Class 55 Rating, Add	2,286.01		
		For Class 56 Rating, Add	3,027.41		
40 05 19 00-3276	EA	12" Flanged x Plain End (FxEPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,232.16		518.18
		For Class 52 Rating, Deduct	-1,149.18		
		For Class 54 Rating, Add	1,576.48		
		For Class 55 Rating, Add	2,348.53		
		For Class 56 Rating, Add	3,110.14		
40 05 19 00-3277	EA	12" Flanged x Plain End (FxEPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,516.61		521.19
		For Class 52 Rating, Deduct	-1,179.96		
		For Class 54 Rating, Add	1,618.52		
		For Class 55 Rating, Add	2,411.06		
		For Class 56 Rating, Add	3,192.88		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3278	EA	12"	Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,801.06	524.19
			For Class 52 Rating, Deduct.....	-1,210.75	
			For Class 54 Rating, Add.....	1,660.55	
			For Class 55 Rating, Add.....	2,473.58	
			For Class 56 Rating, Add.....	3,275.60	
40 05 19 00-3279	EA	12"	Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,085.51	527.21
			For Class 52 Rating, Deduct.....	-1,241.54	
			For Class 54 Rating, Add.....	1,702.59	
			For Class 55 Rating, Add.....	2,536.11	
			For Class 56 Rating, Add.....	3,358.34	
40 05 19 00-3280	EA	12"	Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,369.97	530.23
			For Class 52 Rating, Deduct.....	-1,272.33	
			For Class 54 Rating, Add.....	1,744.63	
			For Class 55 Rating, Add.....	2,598.63	
			For Class 56 Rating, Add.....	3,441.07	
40 05 19 00-3281	EA	12"	Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,654.41	533.23
			For Class 52 Rating, Deduct.....	-1,303.11	
			For Class 54 Rating, Add.....	1,786.67	
			For Class 55 Rating, Add.....	2,661.16	
			For Class 56 Rating, Add.....	3,523.80	
40 05 19 00-3282	EA	12"	Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,938.87	536.25
			For Class 52 Rating, Deduct.....	-1,333.90	
			For Class 54 Rating, Add.....	1,828.71	
			For Class 55 Rating, Add.....	2,723.68	
			For Class 56 Rating, Add.....	3,606.53	
40 05 19 00-3283			14" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3284	EA	14"	Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,869.04	506.12
			For Class 52 Rating, Deduct.....	-231.24	
			For Class 54 Rating, Add.....	324.53	
			For Class 55 Rating, Add.....	487.19	
			For Class 56 Rating, Add.....	647.75	
40 05 19 00-3285	EA	14"	Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,214.33	509.14
			For Class 52 Rating, Deduct.....	-268.72	
			For Class 54 Rating, Add.....	375.69	
			For Class 55 Rating, Add.....	563.29	
			For Class 56 Rating, Add.....	748.43	
40 05 19 00-3286	EA	14"	Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,559.63	512.14
			For Class 52 Rating, Deduct.....	-306.20	
			For Class 54 Rating, Add.....	426.86	
			For Class 55 Rating, Add.....	639.38	
			For Class 56 Rating, Add.....	849.11	
40 05 19 00-3287	EA	14"	Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,904.92	515.16
			For Class 52 Rating, Deduct.....	-343.68	
			For Class 54 Rating, Add.....	478.02	
			For Class 55 Rating, Add.....	715.47	
			For Class 56 Rating, Add.....	949.79	
40 05 19 00-3288	EA	14"	Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,250.22	518.18
			For Class 52 Rating, Deduct.....	-381.16	
			For Class 54 Rating, Add.....	529.19	
			For Class 55 Rating, Add.....	791.56	
			For Class 56 Rating, Add.....	1,050.47	
40 05 19 00-3289	EA	14"	Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,595.51	521.19
			For Class 52 Rating, Deduct.....	-418.64	
			For Class 54 Rating, Add.....	580.35	
			For Class 55 Rating, Add.....	867.65	
			For Class 56 Rating, Add.....	1,151.15	
40 05 19 00-3290	EA	14"	Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,940.81	524.19
			For Class 52 Rating, Deduct.....	-456.12	
			For Class 54 Rating, Add.....	631.52	
			For Class 55 Rating, Add.....	943.75	
			For Class 56 Rating, Add.....	1,251.83	
40 05 19 00-3291	EA	14"	Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,286.10	527.21
			For Class 52 Rating, Deduct.....	-493.60	
			For Class 54 Rating, Add.....	682.68	
			For Class 55 Rating, Add.....	1,019.84	
			For Class 56 Rating, Add.....	1,352.51	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3292	EA	14" Flanged x Plain End (FxE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,631.40		530.23
		For Class 52 Rating, Deduct	-531.08		
		For Class 54 Rating, Add	733.84		
		For Class 55 Rating, Add	1,095.93		
		For Class 56 Rating, Add	1,453.19		
40 05 19 00-3293	EA	14" Flanged x Plain End (FxE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	5,976.70		533.23
		For Class 52 Rating, Deduct	-568.56		
		For Class 54 Rating, Add	785.01		
		For Class 55 Rating, Add	1,172.03		
		For Class 56 Rating, Add	1,553.87		
40 05 19 00-3294	EA	14" Flanged x Plain End (FxE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,322.00		536.25
		For Class 52 Rating, Deduct	-606.05		
		For Class 54 Rating, Add	836.18		
		For Class 55 Rating, Add	1,248.12		
		For Class 56 Rating, Add	1,654.55		
40 05 19 00-3295	EA	14" Flanged x Plain End (FxE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	6,667.29		539.26
		For Class 52 Rating, Deduct	-643.53		
		For Class 54 Rating, Add	887.34		
		For Class 55 Rating, Add	1,324.21		
		For Class 56 Rating, Add	1,755.23		
40 05 19 00-3296	EA	14" Flanged x Plain End (FxE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,012.59		542.28
		For Class 52 Rating, Deduct	-681.01		
		For Class 54 Rating, Add	938.50		
		For Class 55 Rating, Add	1,400.30		
		For Class 56 Rating, Add	1,855.91		
40 05 19 00-3297	EA	14" Flanged x Plain End (FxE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,357.88		545.28
		For Class 52 Rating, Deduct	-718.49		
		For Class 54 Rating, Add	989.67		
		For Class 55 Rating, Add	1,476.40		
		For Class 56 Rating, Add	1,956.59		
40 05 19 00-3298	EA	14" Flanged x Plain End (FxE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	7,703.18		548.30
		For Class 52 Rating, Deduct	-755.97		
		For Class 54 Rating, Add	1,040.83		
		For Class 55 Rating, Add	1,552.49		
		For Class 56 Rating, Add	2,057.27		
40 05 19 00-3299	EA	14" Flanged x Plain End (FxE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,048.47		551.32
		For Class 52 Rating, Deduct	-793.45		
		For Class 54 Rating, Add	1,092.00		
		For Class 55 Rating, Add	1,628.58		
		For Class 56 Rating, Add	2,157.95		
40 05 19 00-3300	EA	14" Flanged x Plain End (FxE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,393.77		554.32
		For Class 52 Rating, Deduct	-830.93		
		For Class 54 Rating, Add	1,143.16		
		For Class 55 Rating, Add	1,704.67		
		For Class 56 Rating, Add	2,258.63		
40 05 19 00-3301	EA	14" Flanged x Plain End (FxE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	8,739.06		557.33
		For Class 52 Rating, Deduct	-868.41		
		For Class 54 Rating, Add	1,194.32		
		For Class 55 Rating, Add	1,780.76		
		For Class 56 Rating, Add	2,359.31		
40 05 19 00-3302	EA	14" Flanged x Plain End (FxE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,084.36		560.35
		For Class 52 Rating, Deduct	-905.89		
		For Class 54 Rating, Add	1,245.49		
		For Class 55 Rating, Add	1,856.86		
		For Class 56 Rating, Add	2,459.99		
40 05 19 00-3303	EA	14" Flanged x Plain End (FxE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,429.65		563.37
		For Class 52 Rating, Deduct	-943.37		
		For Class 54 Rating, Add	1,296.65		
		For Class 55 Rating, Add	1,932.95		
		For Class 56 Rating, Add	2,560.67		
40 05 19 00-3304	EA	14" Flanged x Plain End (FxE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	9,774.96		566.38
		For Class 52 Rating, Deduct	-980.85		
		For Class 54 Rating, Add	1,347.82		
		For Class 55 Rating, Add	2,009.04		
		For Class 56 Rating, Add	2,661.35		
40 05 19 00-3305	EA	14" Flanged x Plain End (FxE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,120.25		569.39
		For Class 52 Rating, Deduct	-1,018.33		
		For Class 54 Rating, Add	1,398.98		
		For Class 55 Rating, Add	2,085.14		
		For Class 56 Rating, Add	2,762.03		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3306	EA	14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	10,465.54 -1,055.81 1,450.15 2,161.23 2,862.71	572.40
40 05 19 00-3307	EA	14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	10,810.83 -1,093.29 1,501.31 2,237.32 2,963.39	575.42
40 05 19 00-3308	EA	14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	11,156.13 -1,130.77 1,552.48 2,313.41 3,064.07	578.42
40 05 19 00-3309	EA	14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	11,501.42 -1,168.25 1,603.64 2,389.51 3,164.75	581.44
40 05 19 00-3310	EA	14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	11,846.72 -1,205.73 1,654.80 2,465.60 3,265.43	584.46
40 05 19 00-3311	EA	14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,192.01 -1,243.21 1,705.97 2,541.69 3,366.11	587.46
40 05 19 00-3312	EA	14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,537.31 -1,280.69 1,757.13 2,617.78 3,466.79	590.47
40 05 19 00-3313	EA	14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	12,882.60 -1,318.17 1,808.30 2,693.88 3,567.47	593.49
40 05 19 00-3314	EA	14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	13,227.90 -1,355.65 1,859.46 2,769.97 3,668.15	596.51
40 05 19 00-3315	EA	14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	13,573.20 -1,393.13 1,910.63 2,846.06 3,768.83	599.52
40 05 19 00-3316	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	13,918.50 -1,430.61 1,961.79 2,922.15 3,869.51	602.53
40 05 19 00-3317	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	14,263.79 -1,468.09 2,012.96 2,998.25 3,970.19	605.54
40 05 19 00-3318	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	14,609.09 -1,505.57 2,064.12 3,074.34 4,070.87	608.55
40 05 19 00-3319	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe For Class 52 Rating, Deduct For Class 54 Rating, Add For Class 55 Rating, Add For Class 56 Rating, Add	14,954.38 -1,543.05 2,115.28 3,150.43 4,171.55	611.56

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
40 05 19 00-3320	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,299.68		614.58	
		For Class 52 Rating, Deduct	-1,580.54			
		For Class 54 Rating, Add	2,166.45			
		For Class 55 Rating, Add	3,226.52			
		For Class 56 Rating, Add	4,272.23			
40 05 19 00-3321	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,644.97		617.60	
		For Class 52 Rating, Deduct	-1,618.02			
		For Class 54 Rating, Add	2,217.61			
		For Class 55 Rating, Add	3,302.62			
		For Class 56 Rating, Add	4,372.91			
40 05 19 00-3322 16" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)						
40 05 19 00-3323	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,355.83		578.42	
		For Class 52 Rating, Deduct	-272.74			
		For Class 54 Rating, Add	382.43			
		For Class 55 Rating, Add	573.95			
		For Class 56 Rating, Add	762.98			
40 05 19 00-3324	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,755.88		581.44	
		For Class 52 Rating, Deduct	-316.24			
		For Class 54 Rating, Add	441.81			
		For Class 55 Rating, Add	662.25			
		For Class 56 Rating, Add	879.82			
40 05 19 00-3325	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,155.94		584.46	
		For Class 52 Rating, Deduct	-359.75			
		For Class 54 Rating, Add	501.19			
		For Class 55 Rating, Add	750.55			
		For Class 56 Rating, Add	996.65			
40 05 19 00-3326	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,555.99		587.46	
		For Class 52 Rating, Deduct	-403.25			
		For Class 54 Rating, Add	560.57			
		For Class 55 Rating, Add	838.86			
		For Class 56 Rating, Add	1,113.48			
40 05 19 00-3327	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,956.05		590.47	
		For Class 52 Rating, Deduct	-446.75			
		For Class 54 Rating, Add	619.94			
		For Class 55 Rating, Add	927.16			
		For Class 56 Rating, Add	1,230.32			
40 05 19 00-3328	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,356.10		593.49	
		For Class 52 Rating, Deduct	-490.26			
		For Class 54 Rating, Add	679.32			
		For Class 55 Rating, Add	1,015.47			
		For Class 56 Rating, Add	1,347.15			
40 05 19 00-3329	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,756.16		596.51	
		For Class 52 Rating, Deduct	-533.76			
		For Class 54 Rating, Add	738.70			
		For Class 55 Rating, Add	1,103.77			
		For Class 56 Rating, Add	1,463.99			
40 05 19 00-3330	EA	16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,156.21		599.52	
		For Class 52 Rating, Deduct	-577.26			
		For Class 54 Rating, Add	798.08			
		For Class 55 Rating, Add	1,192.07			
		For Class 56 Rating, Add	1,580.82			
40 05 19 00-3331	EA	16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,556.28		602.53	
		For Class 52 Rating, Deduct	-620.77			
		For Class 54 Rating, Add	857.46			
		For Class 55 Rating, Add	1,280.38			
		For Class 56 Rating, Add	1,697.66			
40 05 19 00-3332	EA	16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,956.33		605.54	
		For Class 52 Rating, Deduct	-664.27			
		For Class 54 Rating, Add	916.84			
		For Class 55 Rating, Add	1,368.68			
		For Class 56 Rating, Add	1,814.49			
40 05 19 00-3333	EA	16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,356.39		608.55	
		For Class 52 Rating, Deduct	-707.78			
		For Class 54 Rating, Add	976.22			
		For Class 55 Rating, Add	1,456.99			
		For Class 56 Rating, Add	1,931.32			



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3334	EA	16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	7,756.44	611.56
		For Class 52 Rating, Deduct	-751.28	
		For Class 54 Rating, Add	1,035.59	
		For Class 55 Rating, Add	1,545.29	
		For Class 56 Rating, Add	2,048.16	
40 05 19 00-3335	EA	16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	8,156.50	614.58
		For Class 52 Rating, Deduct	-794.79	
		For Class 54 Rating, Add	1,094.97	
		For Class 55 Rating, Add	1,633.59	
		For Class 56 Rating, Add	2,164.99	
40 05 19 00-3336	EA	16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	8,556.55	617.60
		For Class 52 Rating, Deduct	-838.29	
		For Class 54 Rating, Add	1,154.35	
		For Class 55 Rating, Add	1,721.90	
		For Class 56 Rating, Add	2,281.83	
40 05 19 00-3337	EA	16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	8,956.61	620.60
		For Class 52 Rating, Deduct	-881.79	
		For Class 54 Rating, Add	1,213.73	
		For Class 55 Rating, Add	1,810.20	
		For Class 56 Rating, Add	2,398.66	
40 05 19 00-3338	EA	16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	9,356.66	623.62
		For Class 52 Rating, Deduct	-925.30	
		For Class 54 Rating, Add	1,273.11	
		For Class 55 Rating, Add	1,898.51	
		For Class 56 Rating, Add	2,515.49	
40 05 19 00-3339	EA	16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	9,756.72	626.63
		For Class 52 Rating, Deduct	-968.80	
		For Class 54 Rating, Add	1,332.49	
		For Class 55 Rating, Add	1,986.81	
		For Class 56 Rating, Add	2,632.33	
40 05 19 00-3340	EA	16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	10,156.78	629.63
		For Class 52 Rating, Deduct	-1,012.31	
		For Class 54 Rating, Add	1,391.87	
		For Class 55 Rating, Add	2,075.12	
		For Class 56 Rating, Add	2,749.16	
40 05 19 00-3341	EA	16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	10,556.84	632.65
		For Class 52 Rating, Deduct	-1,055.81	
		For Class 54 Rating, Add	1,451.24	
		For Class 55 Rating, Add	2,163.42	
		For Class 56 Rating, Add	2,866.00	
40 05 19 00-3342	EA	16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	10,956.89	635.67
		For Class 52 Rating, Deduct	-1,099.31	
		For Class 54 Rating, Add	1,510.62	
		For Class 55 Rating, Add	2,251.72	
		For Class 56 Rating, Add	2,982.83	
40 05 19 00-3343	EA	16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	11,356.95	638.68
		For Class 52 Rating, Deduct	-1,142.82	
		For Class 54 Rating, Add	1,570.00	
		For Class 55 Rating, Add	2,340.03	
		For Class 56 Rating, Add	3,099.67	
40 05 19 00-3344	EA	16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	11,757.00	641.69
		For Class 52 Rating, Deduct	-1,186.32	
		For Class 54 Rating, Add	1,629.38	
		For Class 55 Rating, Add	2,428.33	
		For Class 56 Rating, Add	3,216.50	
40 05 19 00-3345	EA	16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	12,157.06	644.70
		For Class 52 Rating, Deduct	-1,229.83	
		For Class 54 Rating, Add	1,688.76	
		For Class 55 Rating, Add	2,516.64	
		For Class 56 Rating, Add	3,333.33	
40 05 19 00-3346	EA	16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	12,557.11	647.72
		For Class 52 Rating, Deduct	-1,273.33	
		For Class 54 Rating, Add	1,748.13	
		For Class 55 Rating, Add	2,604.94	
		For Class 56 Rating, Add	3,450.17	
40 05 19 00-3347	EA	16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	12,957.16	650.74
		For Class 52 Rating, Deduct	-1,316.83	
		For Class 54 Rating, Add	1,807.51	
		For Class 55 Rating, Add	2,693.24	
		For Class 56 Rating, Add	3,567.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-3348	EA	16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,357.22	653.74
		For Class 52 Rating, Deduct	-1,360.34	
		For Class 54 Rating, Add	1,866.89	
		For Class 55 Rating, Add	2,781.55	
		For Class 56 Rating, Add	3,683.84	
40 05 19 00-3349	EA	16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,757.28	656.76
		For Class 52 Rating, Deduct	-1,403.84	
		For Class 54 Rating, Add	1,926.27	
		For Class 55 Rating, Add	2,869.85	
		For Class 56 Rating, Add	3,800.67	
40 05 19 00-3350	EA	16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,157.33	659.77
		For Class 52 Rating, Deduct	-1,447.35	
		For Class 54 Rating, Add	1,985.65	
		For Class 55 Rating, Add	2,958.16	
		For Class 56 Rating, Add	3,917.51	
40 05 19 00-3351	EA	16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,557.39	662.77
		For Class 52 Rating, Deduct	-1,490.85	
		For Class 54 Rating, Add	2,045.03	
		For Class 55 Rating, Add	3,046.46	
		For Class 56 Rating, Add	4,034.34	
40 05 19 00-3352	EA	16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,957.44	665.79
		For Class 52 Rating, Deduct	-1,534.35	
		For Class 54 Rating, Add	2,104.41	
		For Class 55 Rating, Add	3,134.76	
		For Class 56 Rating, Add	4,151.17	
40 05 19 00-3353	EA	16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,357.50	668.81
		For Class 52 Rating, Deduct	-1,577.86	
		For Class 54 Rating, Add	2,163.78	
		For Class 55 Rating, Add	3,223.07	
		For Class 56 Rating, Add	4,268.01	
40 05 19 00-3354	EA	16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,757.55	671.83
		For Class 52 Rating, Deduct	-1,621.36	
		For Class 54 Rating, Add	2,223.16	
		For Class 55 Rating, Add	3,311.37	
		For Class 56 Rating, Add	4,384.84	
40 05 19 00-3355	EA	16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,157.61	674.83
		For Class 52 Rating, Deduct	-1,664.87	
		For Class 54 Rating, Add	2,282.54	
		For Class 55 Rating, Add	3,399.68	
		For Class 56 Rating, Add	4,501.68	
40 05 19 00-3356	EA	16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,557.67	677.84
		For Class 52 Rating, Deduct	-1,708.37	
		For Class 54 Rating, Add	2,341.92	
		For Class 55 Rating, Add	3,487.98	
		For Class 56 Rating, Add	4,618.51	
40 05 19 00-3357	EA	16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,957.73	680.86
		For Class 52 Rating, Deduct	-1,751.87	
		For Class 54 Rating, Add	2,401.30	
		For Class 55 Rating, Add	3,576.29	
		For Class 56 Rating, Add	4,735.35	
40 05 19 00-3358	EA	16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,357.78	683.86
		For Class 52 Rating, Deduct	-1,795.38	
		For Class 54 Rating, Add	2,460.68	
		For Class 55 Rating, Add	3,664.59	
		For Class 56 Rating, Add	4,852.18	
40 05 19 00-3359	EA	16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,757.84	686.88
		For Class 52 Rating, Deduct	-1,838.88	
		For Class 54 Rating, Add	2,520.06	
		For Class 55 Rating, Add	3,752.89	
		For Class 56 Rating, Add	4,969.01	
40 05 19 00-3360	EA	16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,157.89	689.90
		For Class 52 Rating, Deduct	-1,882.39	
		For Class 54 Rating, Add	2,579.43	
		For Class 55 Rating, Add	3,841.20	
		For Class 56 Rating, Add	5,085.85	

40 05 19 00-3361 18" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3362	EA	18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	3,893.12	651.94
		For Class 52 Rating, Deduct	-319.59	
		For Class 54 Rating, Add	447.65	
		For Class 55 Rating, Add	671.60	
		For Class 56 Rating, Add	892.64	
40 05 19 00-3363	EA	18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	4,354.02	654.95
		For Class 52 Rating, Deduct	-369.78	
		For Class 54 Rating, Add	516.16	
		For Class 55 Rating, Add	773.47	
		For Class 56 Rating, Add	1,027.42	
40 05 19 00-3364	EA	18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	4,814.92	657.95
		For Class 52 Rating, Deduct	-419.98	
		For Class 54 Rating, Add	584.66	
		For Class 55 Rating, Add	875.34	
		For Class 56 Rating, Add	1,162.20	
40 05 19 00-3365	EA	18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	5,275.82	660.98
		For Class 52 Rating, Deduct	-470.18	
		For Class 54 Rating, Add	653.17	
		For Class 55 Rating, Add	977.22	
		For Class 56 Rating, Add	1,296.99	
40 05 19 00-3366	EA	18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	5,736.72	663.99
		For Class 52 Rating, Deduct	-520.37	
		For Class 54 Rating, Add	721.67	
		For Class 55 Rating, Add	1,079.09	
		For Class 56 Rating, Add	1,431.77	
40 05 19 00-3367	EA	18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	6,197.62	666.99
		For Class 52 Rating, Deduct	-570.57	
		For Class 54 Rating, Add	790.18	
		For Class 55 Rating, Add	1,180.96	
		For Class 56 Rating, Add	1,566.55	
40 05 19 00-3368	EA	18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	6,658.53	670.01
		For Class 52 Rating, Deduct	-620.77	
		For Class 54 Rating, Add	858.69	
		For Class 55 Rating, Add	1,282.83	
		For Class 56 Rating, Add	1,701.34	
40 05 19 00-3369	EA	18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	7,119.42	673.02
		For Class 52 Rating, Deduct	-670.97	
		For Class 54 Rating, Add	927.19	
		For Class 55 Rating, Add	1,384.70	
		For Class 56 Rating, Add	1,836.12	
40 05 19 00-3370	EA	18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	7,580.33	676.05
		For Class 52 Rating, Deduct	-721.16	
		For Class 54 Rating, Add	995.70	
		For Class 55 Rating, Add	1,486.58	
		For Class 56 Rating, Add	1,970.90	
40 05 19 00-3371	EA	18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	8,041.22	679.05
		For Class 52 Rating, Deduct	-771.36	
		For Class 54 Rating, Add	1,064.20	
		For Class 55 Rating, Add	1,588.45	
		For Class 56 Rating, Add	2,105.69	
40 05 19 00-3372	EA	18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	8,502.13	682.06
		For Class 52 Rating, Deduct	-821.56	
		For Class 54 Rating, Add	1,132.71	
		For Class 55 Rating, Add	1,690.32	
		For Class 56 Rating, Add	2,240.47	
40 05 19 00-3373	EA	18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	8,963.03	685.08
		For Class 52 Rating, Deduct	-871.75	
		For Class 54 Rating, Add	1,201.21	
		For Class 55 Rating, Add	1,792.20	
		For Class 56 Rating, Add	2,375.25	
40 05 19 00-3374	EA	18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	9,423.93	688.08
		For Class 52 Rating, Deduct	-921.95	
		For Class 54 Rating, Add	1,269.72	
		For Class 55 Rating, Add	1,894.07	
		For Class 56 Rating, Add	2,510.04	
40 05 19 00-3375	EA	18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe.....	9,884.83	691.09
		For Class 52 Rating, Deduct	-972.15	
		For Class 54 Rating, Add	1,338.22	
		For Class 55 Rating, Add	1,995.94	
		For Class 56 Rating, Add	2,644.82	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3376	EA	18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,345.73		694.11
		For Class 52 Rating, Deduct	-1,022.34		
		For Class 54 Rating, Add	1,406.73		
		For Class 55 Rating, Add	2,097.81		
		For Class 56 Rating, Add	2,779.60		
40 05 19 00-3377	EA	18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	10,806.63		697.13
		For Class 52 Rating, Deduct	-1,072.54		
		For Class 54 Rating, Add	1,475.23		
		For Class 55 Rating, Add	2,199.68		
		For Class 56 Rating, Add	2,914.39		
40 05 19 00-3378	EA	18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,267.54		700.14
		For Class 52 Rating, Deduct	-1,122.74		
		For Class 54 Rating, Add	1,543.74		
		For Class 55 Rating, Add	2,301.56		
		For Class 56 Rating, Add	3,049.17		
40 05 19 00-3379	EA	18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	11,728.43		703.15
		For Class 52 Rating, Deduct	-1,172.94		
		For Class 54 Rating, Add	1,612.24		
		For Class 55 Rating, Add	2,403.43		
		For Class 56 Rating, Add	3,183.95		
40 05 19 00-3380	EA	18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	12,189.34		706.16
		For Class 52 Rating, Deduct	-1,223.13		
		For Class 54 Rating, Add	1,680.75		
		For Class 55 Rating, Add	2,505.30		
		For Class 56 Rating, Add	3,318.74		
40 05 19 00-3381	EA	18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	12,650.23		709.17
		For Class 52 Rating, Deduct	-1,273.33		
		For Class 54 Rating, Add	1,749.25		
		For Class 55 Rating, Add	2,607.17		
		For Class 56 Rating, Add	3,453.52		
40 05 19 00-3382	EA	18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,111.14		712.18
		For Class 52 Rating, Deduct	-1,323.53		
		For Class 54 Rating, Add	1,817.76		
		For Class 55 Rating, Add	2,709.05		
		For Class 56 Rating, Add	3,588.30		
40 05 19 00-3383	EA	18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,572.04		715.20
		For Class 52 Rating, Deduct	-1,373.72		
		For Class 54 Rating, Add	1,886.26		
		For Class 55 Rating, Add	2,810.92		
		For Class 56 Rating, Add	3,723.09		
40 05 19 00-3384	EA	18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,032.94		718.22
		For Class 52 Rating, Deduct	-1,423.92		
		For Class 54 Rating, Add	1,954.77		
		For Class 55 Rating, Add	2,912.79		
		For Class 56 Rating, Add	3,857.87		
40 05 19 00-3385	EA	18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,493.84		721.22
		For Class 52 Rating, Deduct	-1,474.12		
		For Class 54 Rating, Add	2,023.27		
		For Class 55 Rating, Add	3,014.67		
		For Class 56 Rating, Add	3,992.66		
40 05 19 00-3386	EA	18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,954.74		724.24
		For Class 52 Rating, Deduct	-1,524.31		
		For Class 54 Rating, Add	2,091.78		
		For Class 55 Rating, Add	3,116.54		
		For Class 56 Rating, Add	4,127.44		
40 05 19 00-3387	EA	18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,415.64		727.25
		For Class 52 Rating, Deduct	-1,574.51		
		For Class 54 Rating, Add	2,160.28		
		For Class 55 Rating, Add	3,218.41		
		For Class 56 Rating, Add	4,262.22		
40 05 19 00-3388	EA	18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,876.54		730.27
		For Class 52 Rating, Deduct	-1,624.71		
		For Class 54 Rating, Add	2,228.79		
		For Class 55 Rating, Add	3,320.28		
		For Class 56 Rating, Add	4,397.01		
40 05 19 00-3389	EA	18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,337.43		733.28
		For Class 52 Rating, Deduct	-1,674.91		
		For Class 54 Rating, Add	2,297.29		
		For Class 55 Rating, Add	3,422.15		
		For Class 56 Rating, Add	4,531.79		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3390	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	16,798.34	736.29
			For Class 52 Rating, Deduct.....	-1,725.10	
			For Class 54 Rating, Add.....	2,365.80	
			For Class 55 Rating, Add.....	3,524.03	
			For Class 56 Rating, Add.....	4,666.57	
40 05 19 00-3391	EA		18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	17,259.23	739.30
			For Class 52 Rating, Deduct.....	-1,775.30	
			For Class 54 Rating, Add.....	2,434.30	
			For Class 55 Rating, Add.....	3,625.90	
			For Class 56 Rating, Add.....	4,801.35	
40 05 19 00-3392	EA		18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	17,720.14	742.31
			For Class 52 Rating, Deduct.....	-1,825.50	
			For Class 54 Rating, Add.....	2,502.81	
			For Class 55 Rating, Add.....	3,727.77	
			For Class 56 Rating, Add.....	4,936.14	
40 05 19 00-3393	EA		18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	18,181.04	745.32
			For Class 52 Rating, Deduct.....	-1,875.69	
			For Class 54 Rating, Add.....	2,571.32	
			For Class 55 Rating, Add.....	3,829.65	
			For Class 56 Rating, Add.....	5,070.92	
40 05 19 00-3394	EA		18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	18,641.94	748.35
			For Class 52 Rating, Deduct.....	-1,925.89	
			For Class 54 Rating, Add.....	2,639.82	
			For Class 55 Rating, Add.....	3,931.52	
			For Class 56 Rating, Add.....	5,205.71	
40 05 19 00-3395	EA		18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,102.84	751.36
			For Class 52 Rating, Deduct.....	-1,976.09	
			For Class 54 Rating, Add.....	2,708.33	
			For Class 55 Rating, Add.....	4,033.39	
			For Class 56 Rating, Add.....	5,340.49	
40 05 19 00-3396	EA		18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	19,563.74	754.36
			For Class 52 Rating, Deduct.....	-2,026.28	
			For Class 54 Rating, Add.....	2,776.83	
			For Class 55 Rating, Add.....	4,135.26	
			For Class 56 Rating, Add.....	5,475.27	
40 05 19 00-3397	EA		18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,024.64	757.38
			For Class 52 Rating, Deduct.....	-2,076.48	
			For Class 54 Rating, Add.....	2,845.34	
			For Class 55 Rating, Add.....	4,237.13	
			For Class 56 Rating, Add.....	5,610.06	
40 05 19 00-3398	EA		18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,485.55	760.39
			For Class 52 Rating, Deduct.....	-2,126.68	
			For Class 54 Rating, Add.....	2,913.84	
			For Class 55 Rating, Add.....	4,339.01	
			For Class 56 Rating, Add.....	5,744.84	
40 05 19 00-3399	EA		18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	20,946.44	763.39
			For Class 52 Rating, Deduct.....	-2,176.87	
			For Class 54 Rating, Add.....	2,982.35	
			For Class 55 Rating, Add.....	4,440.88	
			For Class 56 Rating, Add.....	5,879.62	
40 05 19 00-3400			20" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3401	EA		20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	4,534.76	744.12
			For Class 52 Rating, Deduct.....	-374.80	
			For Class 54 Rating, Add.....	524.63	
			For Class 55 Rating, Add.....	786.89	
			For Class 56 Rating, Add.....	1,045.74	
40 05 19 00-3402	EA		20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,059.55	747.14
			For Class 52 Rating, Deduct.....	-432.03	
			For Class 54 Rating, Add.....	602.71	
			For Class 55 Rating, Add.....	903.01	
			For Class 56 Rating, Add.....	1,199.37	
40 05 19 00-3403	EA		20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	5,584.33	750.14
			For Class 52 Rating, Deduct.....	-489.25	
			For Class 54 Rating, Add.....	680.80	
			For Class 55 Rating, Add.....	1,019.13	
			For Class 56 Rating, Add.....	1,353.00	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-3404	EA	20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		6,109.13		753.15
		For Class 52 Rating, Deduct		-546.48		
		For Class 54 Rating, Add		758.89		
		For Class 55 Rating, Add		1,135.25		
		For Class 56 Rating, Add		1,506.64		
40 05 19 00-3405	EA	20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		6,633.91		756.18
		For Class 52 Rating, Deduct		-603.70		
		For Class 54 Rating, Add		836.98		
		For Class 55 Rating, Add		1,251.37		
		For Class 56 Rating, Add		1,660.26		
40 05 19 00-3406	EA	20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		7,158.70		759.18
		For Class 52 Rating, Deduct		-660.93		
		For Class 54 Rating, Add		915.07		
		For Class 55 Rating, Add		1,367.48		
		For Class 56 Rating, Add		1,813.89		
40 05 19 00-3407	EA	20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		7,683.49		762.20
		For Class 52 Rating, Deduct		-718.15		
		For Class 54 Rating, Add		993.16		
		For Class 55 Rating, Add		1,483.61		
		For Class 56 Rating, Add		1,967.53		
40 05 19 00-3408	EA	20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		8,208.28		765.21
		For Class 52 Rating, Deduct		-775.38		
		For Class 54 Rating, Add		1,071.24		
		For Class 55 Rating, Add		1,599.72		
		For Class 56 Rating, Add		2,121.16		
40 05 19 00-3409	EA	20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		8,733.06		768.22
		For Class 52 Rating, Deduct		-832.60		
		For Class 54 Rating, Add		1,149.33		
		For Class 55 Rating, Add		1,715.84		
		For Class 56 Rating, Add		2,274.78		
40 05 19 00-3410	EA	20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		9,257.86		771.23
		For Class 52 Rating, Deduct		-889.83		
		For Class 54 Rating, Add		1,227.42		
		For Class 55 Rating, Add		1,831.96		
		For Class 56 Rating, Add		2,428.42		
40 05 19 00-3411	EA	20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		9,782.64		774.25
		For Class 52 Rating, Deduct		-947.05		
		For Class 54 Rating, Add		1,305.51		
		For Class 55 Rating, Add		1,948.08		
		For Class 56 Rating, Add		2,582.05		
40 05 19 00-3412	EA	20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		10,307.43		777.26
		For Class 52 Rating, Deduct		-1,004.27		
		For Class 54 Rating, Add		1,383.60		
		For Class 55 Rating, Add		2,064.20		
		For Class 56 Rating, Add		2,735.68		
40 05 19 00-3413	EA	20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		10,832.22		780.27
		For Class 52 Rating, Deduct		-1,061.50		
		For Class 54 Rating, Add		1,461.69		
		For Class 55 Rating, Add		2,180.32		
		For Class 56 Rating, Add		2,889.31		
40 05 19 00-3414	EA	20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		11,357.01		783.28
		For Class 52 Rating, Deduct		-1,118.72		
		For Class 54 Rating, Add		1,539.77		
		For Class 55 Rating, Add		2,296.44		
		For Class 56 Rating, Add		3,042.94		
40 05 19 00-3415	EA	20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		11,881.79		786.30
		For Class 52 Rating, Deduct		-1,175.95		
		For Class 54 Rating, Add		1,617.86		
		For Class 55 Rating, Add		2,412.56		
		For Class 56 Rating, Add		3,196.57		
40 05 19 00-3416	EA	20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		12,406.58		789.32
		For Class 52 Rating, Deduct		-1,233.17		
		For Class 54 Rating, Add		1,695.95		
		For Class 55 Rating, Add		2,528.68		
		For Class 56 Rating, Add		3,350.20		
40 05 19 00-3417	EA	20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....		12,931.37		792.32
		For Class 52 Rating, Deduct		-1,290.40		
		For Class 54 Rating, Add		1,774.04		
		For Class 55 Rating, Add		2,644.80		
		For Class 56 Rating, Add		3,503.83		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3418	EA	20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	13,456.16	795.34
		For Class 52 Rating, Deduct	-1,347.62	
		For Class 54 Rating, Add	1,852.13	
		For Class 55 Rating, Add	2,760.92	
		For Class 56 Rating, Add	3,657.46	
40 05 19 00-3419	EA	20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	13,980.94	798.35
		For Class 52 Rating, Deduct	-1,404.65	
		For Class 54 Rating, Add	1,930.21	
		For Class 55 Rating, Add	2,877.04	
		For Class 56 Rating, Add	3,811.09	
40 05 19 00-3420	EA	20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	14,505.73	801.36
		For Class 52 Rating, Deduct	-1,462.07	
		For Class 54 Rating, Add	2,008.30	
		For Class 55 Rating, Add	2,993.16	
		For Class 56 Rating, Add	3,964.72	
40 05 19 00-3421	EA	20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	15,030.51	804.37
		For Class 52 Rating, Deduct	-1,519.29	
		For Class 54 Rating, Add	2,086.39	
		For Class 55 Rating, Add	3,109.27	
		For Class 56 Rating, Add	4,118.35	
40 05 19 00-3422	EA	20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	15,555.30	807.39
		For Class 52 Rating, Deduct	-1,576.52	
		For Class 54 Rating, Add	2,164.48	
		For Class 55 Rating, Add	3,225.39	
		For Class 56 Rating, Add	4,271.98	
40 05 19 00-3423	EA	20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	16,080.09	810.41
		For Class 52 Rating, Deduct	-1,633.74	
		For Class 54 Rating, Add	2,242.57	
		For Class 55 Rating, Add	3,341.51	
		For Class 56 Rating, Add	4,425.61	
40 05 19 00-3424	EA	20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	16,604.88	813.41
		For Class 52 Rating, Deduct	-1,690.97	
		For Class 54 Rating, Add	2,320.66	
		For Class 55 Rating, Add	3,457.63	
		For Class 56 Rating, Add	4,579.24	
40 05 19 00-3425	EA	20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	17,129.66	816.42
		For Class 52 Rating, Deduct	-1,748.19	
		For Class 54 Rating, Add	2,398.74	
		For Class 55 Rating, Add	3,573.75	
		For Class 56 Rating, Add	4,732.87	
40 05 19 00-3426	EA	20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	17,654.45	819.44
		For Class 52 Rating, Deduct	-1,805.42	
		For Class 54 Rating, Add	2,476.83	
		For Class 55 Rating, Add	3,689.87	
		For Class 56 Rating, Add	4,886.50	
40 05 19 00-3427	EA	20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	18,179.24	822.46
		For Class 52 Rating, Deduct	-1,862.64	
		For Class 54 Rating, Add	2,554.92	
		For Class 55 Rating, Add	3,805.99	
		For Class 56 Rating, Add	5,040.13	
40 05 19 00-3428	EA	20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	18,704.03	825.46
		For Class 52 Rating, Deduct	-1,919.87	
		For Class 54 Rating, Add	2,633.01	
		For Class 55 Rating, Add	3,922.11	
		For Class 56 Rating, Add	5,193.76	
40 05 19 00-3429	EA	20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	19,228.81	828.48
		For Class 52 Rating, Deduct	-1,977.09	
		For Class 54 Rating, Add	2,711.10	
		For Class 55 Rating, Add	4,038.23	
		For Class 56 Rating, Add	5,347.39	
40 05 19 00-3430	EA	20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	19,753.61	831.49
		For Class 52 Rating, Deduct	-2,034.32	
		For Class 54 Rating, Add	2,789.18	
		For Class 55 Rating, Add	4,154.35	
		For Class 56 Rating, Add	5,501.02	
40 05 19 00-3431	EA	20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	20,278.39	834.49
		For Class 52 Rating, Deduct	-2,091.54	
		For Class 54 Rating, Add	2,867.27	
		For Class 55 Rating, Add	4,270.47	
		For Class 56 Rating, Add	5,654.65	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-3432	EA	20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,803.18		837.51
		For Class 52 Rating, Deduct	-2,148.76		
		For Class 54 Rating, Add	2,945.36		
		For Class 55 Rating, Add	4,386.59		
		For Class 56 Rating, Add	5,808.28		
40 05 19 00-3433	EA	20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,327.97		840.53
		For Class 52 Rating, Deduct	-2,205.99		
		For Class 54 Rating, Add	3,023.45		
		For Class 55 Rating, Add	4,502.71		
		For Class 56 Rating, Add	5,961.91		
40 05 19 00-3434	EA	20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,852.76		843.55
		For Class 52 Rating, Deduct	-2,263.21		
		For Class 54 Rating, Add	3,101.54		
		For Class 55 Rating, Add	4,618.83		
		For Class 56 Rating, Add	6,115.54		
40 05 19 00-3435	EA	20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,377.54		846.55
		For Class 52 Rating, Deduct	-2,320.44		
		For Class 54 Rating, Add	3,179.63		
		For Class 55 Rating, Add	4,734.94		
		For Class 56 Rating, Add	6,269.17		
40 05 19 00-3436	EA	20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,902.34		849.56
		For Class 52 Rating, Deduct	-2,377.66		
		For Class 54 Rating, Add	3,257.71		
		For Class 55 Rating, Add	4,851.07		
		For Class 56 Rating, Add	6,422.80		
40 05 19 00-3437	EA	20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,427.12		852.58
		For Class 52 Rating, Deduct	-2,434.89		
		For Class 54 Rating, Add	3,335.80		
		For Class 55 Rating, Add	4,967.18		
		For Class 56 Rating, Add	6,576.43		
40 05 19 00-3438	EA	20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,951.91		855.58
		For Class 52 Rating, Deduct	-2,492.11		
		For Class 54 Rating, Add	3,413.89		
		For Class 55 Rating, Add	5,083.30		
		For Class 56 Rating, Add	6,730.06		
40 05 19 00-3439 24" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)					
40 05 19 00-3440	EA	24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,585.91		879.69
		For Class 52 Rating, Deduct	-467.84		
		For Class 54 Rating, Add	653.95		
		For Class 55 Rating, Add	980.42		
		For Class 56 Rating, Add	1,302.63		
40 05 19 00-3441	EA	24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,235.43		882.70
		For Class 52 Rating, Deduct	-538.78		
		For Class 54 Rating, Add	750.75		
		For Class 55 Rating, Add	1,124.35		
		For Class 56 Rating, Add	1,493.06		
40 05 19 00-3442	EA	24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,884.95		885.72
		For Class 52 Rating, Deduct	-609.73		
		For Class 54 Rating, Add	847.55		
		For Class 55 Rating, Add	1,268.29		
		For Class 56 Rating, Add	1,683.48		
40 05 19 00-3443	EA	24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,534.47		888.72
		For Class 52 Rating, Deduct	-680.67		
		For Class 54 Rating, Add	944.35		
		For Class 55 Rating, Add	1,412.22		
		For Class 56 Rating, Add	1,873.91		
40 05 19 00-3444	EA	24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,183.99		891.73
		For Class 52 Rating, Deduct	-751.62		
		For Class 54 Rating, Add	1,041.14		
		For Class 55 Rating, Add	1,556.16		
		For Class 56 Rating, Add	2,064.34		
40 05 19 00-3445	EA	24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,833.51		894.76
		For Class 52 Rating, Deduct	-822.56		
		For Class 54 Rating, Add	1,137.94		
		For Class 55 Rating, Add	1,700.09		
		For Class 56 Rating, Add	2,254.76		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3446	EA	24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	9,483.03	897.77
		For Class 52 Rating, Deduct	-893.51	
		For Class 54 Rating, Add	1,234.74	
		For Class 55 Rating, Add	1,844.03	
		For Class 56 Rating, Add	2,445.19	
40 05 19 00-3447	EA	24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	10,132.55	900.78
		For Class 52 Rating, Deduct	-964.45	
		For Class 54 Rating, Add	1,331.54	
		For Class 55 Rating, Add	1,987.96	
		For Class 56 Rating, Add	2,635.62	
40 05 19 00-3448	EA	24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	10,782.07	903.79
		For Class 52 Rating, Deduct	-1,035.40	
		For Class 54 Rating, Add	1,428.34	
		For Class 55 Rating, Add	2,131.89	
		For Class 56 Rating, Add	2,826.04	
40 05 19 00-3449	EA	24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	11,431.59	906.80
		For Class 52 Rating, Deduct	-1,106.34	
		For Class 54 Rating, Add	1,525.13	
		For Class 55 Rating, Add	2,275.83	
		For Class 56 Rating, Add	3,016.47	
40 05 19 00-3450	EA	24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	12,081.11	909.81
		For Class 52 Rating, Deduct	-1,177.29	
		For Class 54 Rating, Add	1,621.93	
		For Class 55 Rating, Add	2,419.76	
		For Class 56 Rating, Add	3,206.89	
40 05 19 00-3451	EA	24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	12,730.63	912.83
		For Class 52 Rating, Deduct	-1,248.23	
		For Class 54 Rating, Add	1,718.73	
		For Class 55 Rating, Add	2,563.70	
		For Class 56 Rating, Add	3,397.32	
40 05 19 00-3452	EA	24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	13,380.15	915.84
		For Class 52 Rating, Deduct	-1,319.18	
		For Class 54 Rating, Add	1,815.53	
		For Class 55 Rating, Add	2,707.63	
		For Class 56 Rating, Add	3,587.75	
40 05 19 00-3453	EA	24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	14,029.66	918.86
		For Class 52 Rating, Deduct	-1,390.12	
		For Class 54 Rating, Add	1,912.33	
		For Class 55 Rating, Add	2,851.57	
		For Class 56 Rating, Add	3,778.17	
40 05 19 00-3454	EA	24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	14,679.19	921.86
		For Class 52 Rating, Deduct	-1,461.07	
		For Class 54 Rating, Add	2,009.12	
		For Class 55 Rating, Add	2,995.50	
		For Class 56 Rating, Add	3,968.60	
40 05 19 00-3455	EA	24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	15,328.70	924.88
		For Class 52 Rating, Deduct	-1,532.01	
		For Class 54 Rating, Add	2,105.92	
		For Class 55 Rating, Add	3,139.44	
		For Class 56 Rating, Add	4,159.02	
40 05 19 00-3456	EA	24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	15,978.23	927.90
		For Class 52 Rating, Deduct	-1,602.96	
		For Class 54 Rating, Add	2,202.72	
		For Class 55 Rating, Add	3,283.37	
		For Class 56 Rating, Add	4,349.45	
40 05 19 00-3457	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	16,627.74	930.90
		For Class 52 Rating, Deduct	-1,673.90	
		For Class 54 Rating, Add	2,299.52	
		For Class 55 Rating, Add	3,427.30	
		For Class 56 Rating, Add	4,539.87	
40 05 19 00-3458	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	17,277.27	933.92
		For Class 52 Rating, Deduct	-1,744.85	
		For Class 54 Rating, Add	2,396.32	
		For Class 55 Rating, Add	3,571.24	
		For Class 56 Rating, Add	4,730.30	
40 05 19 00-3459	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	17,926.78	936.93
		For Class 52 Rating, Deduct	-1,815.79	
		For Class 54 Rating, Add	2,493.11	
		For Class 55 Rating, Add	3,715.17	
		For Class 56 Rating, Add	4,920.73	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST	UNIT COST
40 05 19 00-3460	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	18,576.31		939.94	
		For Class 52 Rating, Deduct	-1,886.74			
		For Class 54 Rating, Add	2,589.91			
		For Class 55 Rating, Add	3,859.11			
		For Class 56 Rating, Add	5,111.15			
40 05 19 00-3461	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	19,225.82		942.95	
		For Class 52 Rating, Deduct	-1,957.68			
		For Class 54 Rating, Add	2,686.71			
		For Class 55 Rating, Add	4,003.04			
		For Class 56 Rating, Add	5,301.58			
40 05 19 00-3462	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	19,875.35		945.97	
		For Class 52 Rating, Deduct	-2,028.63			
		For Class 54 Rating, Add	2,783.51			
		For Class 55 Rating, Add	4,146.98			
		For Class 56 Rating, Add	5,492.01			
40 05 19 00-3463	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	20,524.86		948.99	
		For Class 52 Rating, Deduct	-2,099.57			
		For Class 54 Rating, Add	2,880.31			
		For Class 55 Rating, Add	4,290.91			
		For Class 56 Rating, Add	5,682.43			
40 05 19 00-3464	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	21,174.39		952.00	
		For Class 52 Rating, Deduct	-2,170.52			
		For Class 54 Rating, Add	2,977.10			
		For Class 55 Rating, Add	4,434.85			
		For Class 56 Rating, Add	5,872.86			
40 05 19 00-3465	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	21,823.89		955.00	
		For Class 52 Rating, Deduct	-2,241.46			
		For Class 54 Rating, Add	3,073.90			
		For Class 55 Rating, Add	4,578.78			
		For Class 56 Rating, Add	6,063.28			
40 05 19 00-3466	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	22,473.42		958.02	
		For Class 52 Rating, Deduct	-2,312.41			
		For Class 54 Rating, Add	3,170.70			
		For Class 55 Rating, Add	4,722.72			
		For Class 56 Rating, Add	6,253.71			
40 05 19 00-3467	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	23,122.93		961.04	
		For Class 52 Rating, Deduct	-2,383.35			
		For Class 54 Rating, Add	3,267.50			
		For Class 55 Rating, Add	4,866.65			
		For Class 56 Rating, Add	6,444.13			
40 05 19 00-3468	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	23,772.46		964.04	
		For Class 52 Rating, Deduct	-2,454.30			
		For Class 54 Rating, Add	3,364.30			
		For Class 55 Rating, Add	5,010.59			
		For Class 56 Rating, Add	6,634.56			
40 05 19 00-3469	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	24,499.58		1,018.27	
		For Class 52 Rating, Deduct	-2,525.24			
		For Class 54 Rating, Add	3,462.03			
		For Class 55 Rating, Add	5,156.38			
		For Class 56 Rating, Add	6,827.78			
40 05 19 00-3470	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	25,149.10		1,021.28	
		For Class 52 Rating, Deduct	-2,596.19			
		For Class 54 Rating, Add	3,558.82			
		For Class 55 Rating, Add	5,300.32			
		For Class 56 Rating, Add	7,018.21			
40 05 19 00-3471	EA	24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	25,798.62		1,024.30	
		For Class 52 Rating, Deduct	-2,667.13			
		For Class 54 Rating, Add	3,655.62			
		For Class 55 Rating, Add	5,444.25			
		For Class 56 Rating, Add	7,208.63			
40 05 19 00-3472	EA	24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	26,448.14		1,027.31	
		For Class 52 Rating, Deduct	-2,738.08			
		For Class 54 Rating, Add	3,752.42			
		For Class 55 Rating, Add	5,588.19			
		For Class 56 Rating, Add	7,399.06			
40 05 19 00-3473	EA	24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal				
		Coat, Ductile Iron Pipe.....	27,097.65		1,030.31	
		For Class 52 Rating, Deduct	-2,809.02			
		For Class 54 Rating, Add	3,849.22			
		For Class 55 Rating, Add	5,732.12			
		For Class 56 Rating, Add	7,589.48			



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3474	EA	24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	30,789.41	1,033.34
		For Class 52 Rating, Deduct	-3,214.61	
		For Class 54 Rating, Add	4,402.35	
		For Class 55 Rating, Add	6,554.47	
		For Class 56 Rating, Add	8,677.37	
40 05 19 00-3475	EA	24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,396.69	1,036.35
		For Class 52 Rating, Deduct	-2,950.91	
		For Class 54 Rating, Add	4,042.81	
		For Class 55 Rating, Add	6,019.99	
		For Class 56 Rating, Add	7,970.34	
40 05 19 00-3476	EA	24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,046.21	1,039.36
		For Class 52 Rating, Deduct	-3,021.86	
		For Class 54 Rating, Add	4,139.61	
		For Class 55 Rating, Add	6,163.92	
		For Class 56 Rating, Add	8,160.76	
40 05 19 00-3477	EA	24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,695.73	1,042.37
		For Class 52 Rating, Deduct	-3,092.80	
		For Class 54 Rating, Add	4,236.41	
		For Class 55 Rating, Add	6,307.86	
		For Class 56 Rating, Add	8,351.19	
40 05 19 00-3478		30" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3479	EA	30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,467.97	1,241.21
		For Class 52 Rating, Deduct	-834.61	
		For Class 54 Rating, Add	1,160.67	
		For Class 55 Rating, Add	1,737.11	
		For Class 56 Rating, Add	2,305.97	
40 05 19 00-3480	EA	30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,397.37	1,244.22
		For Class 52 Rating, Deduct	-936.34	
		For Class 54 Rating, Add	1,299.45	
		For Class 55 Rating, Add	1,943.46	
		For Class 56 Rating, Add	2,578.96	
40 05 19 00-3481	EA	30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,326.78	1,247.23
		For Class 52 Rating, Deduct	-1,038.07	
		For Class 54 Rating, Add	1,438.23	
		For Class 55 Rating, Add	2,149.81	
		For Class 56 Rating, Add	2,851.95	
40 05 19 00-3482	EA	30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,256.18	1,250.25
		For Class 52 Rating, Deduct	-1,139.81	
		For Class 54 Rating, Add	1,577.01	
		For Class 55 Rating, Add	2,356.16	
		For Class 56 Rating, Add	3,124.95	
40 05 19 00-3483	EA	30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,185.59	1,253.26
		For Class 52 Rating, Deduct	-1,241.54	
		For Class 54 Rating, Add	1,715.79	
		For Class 55 Rating, Add	2,562.51	
		For Class 56 Rating, Add	3,397.94	
40 05 19 00-3484	EA	30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,114.99	1,256.26
		For Class 52 Rating, Deduct	-1,343.27	
		For Class 54 Rating, Add	1,854.57	
		For Class 55 Rating, Add	2,768.86	
		For Class 56 Rating, Add	3,670.93	
40 05 19 00-3485	EA	30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,044.39	1,259.29
		For Class 52 Rating, Deduct	-1,445.00	
		For Class 54 Rating, Add	1,993.35	
		For Class 55 Rating, Add	2,975.21	
		For Class 56 Rating, Add	3,943.92	
40 05 19 00-3486	EA	30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,973.79	1,262.30
		For Class 52 Rating, Deduct	-1,546.74	
		For Class 54 Rating, Add	2,132.14	
		For Class 55 Rating, Add	3,181.56	
		For Class 56 Rating, Add	4,216.92	
40 05 19 00-3487	EA	30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,903.20	1,265.30
		For Class 52 Rating, Deduct	-1,648.47	
		For Class 54 Rating, Add	2,270.92	
		For Class 55 Rating, Add	3,387.90	
		For Class 56 Rating, Add	4,489.91	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3488	EA	30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,832.61		1,268.32
		For Class 52 Rating, Deduct	-1,750.20		
		For Class 54 Rating, Add	2,409.70		
		For Class 55 Rating, Add	3,594.26		
		For Class 56 Rating, Add	4,762.90		
40 05 19 00-3489	EA	30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	18,762.02		1,271.33
		For Class 52 Rating, Deduct	-1,851.93		
		For Class 54 Rating, Add	2,548.48		
		For Class 55 Rating, Add	3,800.60		
		For Class 56 Rating, Add	5,035.89		
40 05 19 00-3490	EA	30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	19,691.42		1,274.36
		For Class 52 Rating, Deduct	-1,953.67		
		For Class 54 Rating, Add	2,687.26		
		For Class 55 Rating, Add	4,006.95		
		For Class 56 Rating, Add	5,308.89		
40 05 19 00-3491	EA	30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	20,620.83		1,277.36
		For Class 52 Rating, Deduct	-2,055.40		
		For Class 54 Rating, Add	2,826.04		
		For Class 55 Rating, Add	4,213.30		
		For Class 56 Rating, Add	5,581.88		
40 05 19 00-3492	EA	30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	21,550.23		1,280.37
		For Class 52 Rating, Deduct	-2,157.13		
		For Class 54 Rating, Add	2,964.82		
		For Class 55 Rating, Add	4,419.65		
		For Class 56 Rating, Add	5,854.87		
40 05 19 00-3493	EA	30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	22,479.64		1,283.39
		For Class 52 Rating, Deduct	-2,258.86		
		For Class 54 Rating, Add	3,103.60		
		For Class 55 Rating, Add	4,626.00		
		For Class 56 Rating, Add	6,127.86		
40 05 19 00-3494	EA	30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	23,409.04		1,286.39
		For Class 52 Rating, Deduct	-2,360.60		
		For Class 54 Rating, Add	3,242.38		
		For Class 55 Rating, Add	4,832.35		
		For Class 56 Rating, Add	6,400.86		
40 05 19 00-3495	EA	30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	24,338.45		1,289.40
		For Class 52 Rating, Deduct	-2,462.33		
		For Class 54 Rating, Add	3,381.16		
		For Class 55 Rating, Add	5,038.70		
		For Class 56 Rating, Add	6,673.85		
40 05 19 00-3496	EA	30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	25,267.85		1,292.43
		For Class 52 Rating, Deduct	-2,564.06		
		For Class 54 Rating, Add	3,519.94		
		For Class 55 Rating, Add	5,245.05		
		For Class 56 Rating, Add	6,946.84		
40 05 19 00-3497	EA	30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	26,197.26		1,295.44
		For Class 52 Rating, Deduct	-2,665.79		
		For Class 54 Rating, Add	3,658.73		
		For Class 55 Rating, Add	5,451.40		
		For Class 56 Rating, Add	7,219.83		
40 05 19 00-3498	EA	30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	27,126.66		1,298.44
		For Class 52 Rating, Deduct	-2,767.53		
		For Class 54 Rating, Add	3,797.51		
		For Class 55 Rating, Add	5,657.74		
		For Class 56 Rating, Add	7,492.82		
40 05 19 00-3499	EA	30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	28,056.08		1,301.46
		For Class 52 Rating, Deduct	-2,869.26		
		For Class 54 Rating, Add	3,936.29		
		For Class 55 Rating, Add	5,864.10		
		For Class 56 Rating, Add	7,765.82		
40 05 19 00-3500	EA	30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	28,985.48		1,304.47
		For Class 52 Rating, Deduct	-2,970.99		
		For Class 54 Rating, Add	4,075.07		
		For Class 55 Rating, Add	6,070.44		
		For Class 56 Rating, Add	8,038.81		
40 05 19 00-3501	EA	30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	29,914.89		1,307.47
		For Class 52 Rating, Deduct	-3,072.72		
		For Class 54 Rating, Add	4,213.85		
		For Class 55 Rating, Add	6,276.79		
		For Class 56 Rating, Add	8,311.80		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3502	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	30,844.29	1,310.50
			For Class 52 Rating, Deduct.....	-3,174.46	
			For Class 54 Rating, Add.....	4,352.63	
			For Class 55 Rating, Add.....	6,483.14	
			For Class 56 Rating, Add.....	8,584.80	
40 05 19 00-3503	EA		30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	31,773.70	1,313.51
			For Class 52 Rating, Deduct.....	-3,276.19	
			For Class 54 Rating, Add.....	4,491.41	
			For Class 55 Rating, Add.....	6,689.49	
			For Class 56 Rating, Add.....	8,857.79	
40 05 19 00-3504	EA		30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	32,703.10	1,316.53
			For Class 52 Rating, Deduct.....	-3,377.92	
			For Class 54 Rating, Add.....	4,630.19	
			For Class 55 Rating, Add.....	6,895.84	
			For Class 56 Rating, Add.....	9,130.78	
40 05 19 00-3505	EA		30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	33,632.51	1,319.53
			For Class 52 Rating, Deduct.....	-3,479.65	
			For Class 54 Rating, Add.....	4,768.97	
			For Class 55 Rating, Add.....	7,102.19	
			For Class 56 Rating, Add.....	9,403.77	
40 05 19 00-3506	EA		30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	34,561.91	1,322.54
			For Class 52 Rating, Deduct.....	-3,581.39	
			For Class 54 Rating, Add.....	4,907.75	
			For Class 55 Rating, Add.....	7,308.54	
			For Class 56 Rating, Add.....	9,676.76	
40 05 19 00-3507	EA		30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	35,491.32	1,325.57
			For Class 52 Rating, Deduct.....	-3,683.12	
			For Class 54 Rating, Add.....	5,046.53	
			For Class 55 Rating, Add.....	7,514.89	
			For Class 56 Rating, Add.....	9,949.76	
40 05 19 00-3508	EA		30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	36,420.72	1,328.58
			For Class 52 Rating, Deduct.....	-3,784.85	
			For Class 54 Rating, Add.....	5,185.32	
			For Class 55 Rating, Add.....	7,721.24	
			For Class 56 Rating, Add.....	10,222.75	
40 05 19 00-3509	EA		30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	37,350.14	1,331.58
			For Class 52 Rating, Deduct.....	-3,886.58	
			For Class 54 Rating, Add.....	5,324.10	
			For Class 55 Rating, Add.....	7,927.59	
			For Class 56 Rating, Add.....	10,495.74	
40 05 19 00-3510	EA		30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	38,279.53	1,334.60
			For Class 52 Rating, Deduct.....	-3,988.32	
			For Class 54 Rating, Add.....	5,462.88	
			For Class 55 Rating, Add.....	8,133.94	
			For Class 56 Rating, Add.....	10,768.73	
40 05 19 00-3511	EA		30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	39,208.94	1,337.61
			For Class 52 Rating, Deduct.....	-4,090.05	
			For Class 54 Rating, Add.....	5,601.66	
			For Class 55 Rating, Add.....	8,340.28	
			For Class 56 Rating, Add.....	11,041.73	
40 05 19 00-3512	EA		30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	40,138.34	1,340.62
			For Class 52 Rating, Deduct.....	-4,191.78	
			For Class 54 Rating, Add.....	5,740.44	
			For Class 55 Rating, Add.....	8,546.63	
			For Class 56 Rating, Add.....	11,314.72	
40 05 19 00-3513	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	41,067.75	1,343.64
			For Class 52 Rating, Deduct.....	-4,293.51	
			For Class 54 Rating, Add.....	5,879.22	
			For Class 55 Rating, Add.....	8,752.98	
			For Class 56 Rating, Add.....	11,587.71	
40 05 19 00-3514			36" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3515	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	11,831.92	1,572.60
			For Class 52 Rating, Deduct.....	-1,039.41	
			For Class 54 Rating, Add.....	1,445.97	
			For Class 55 Rating, Add.....	2,164.36	
			For Class 56 Rating, Add.....	2,873.29	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3516	EA	36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	13,077.71		1,575.62
		For Class 52 Rating, Deduct	-1,175.95		
		For Class 54 Rating, Add	1,632.21		
		For Class 55 Rating, Add	2,441.26		
		For Class 56 Rating, Add	3,239.62		
40 05 19 00-3517	EA	36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	14,323.52		1,578.62
		For Class 52 Rating, Deduct	-1,312.48		
		For Class 54 Rating, Add	1,818.45		
		For Class 55 Rating, Add	2,718.17		
		For Class 56 Rating, Add	3,605.95		
40 05 19 00-3518	EA	36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,569.31		1,581.63
		For Class 52 Rating, Deduct	-1,449.02		
		For Class 54 Rating, Add	2,004.69		
		For Class 55 Rating, Add	2,995.07		
		For Class 56 Rating, Add	3,972.28		
40 05 19 00-3519	EA	36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	16,815.11		1,584.66
		For Class 52 Rating, Deduct	-1,585.55		
		For Class 54 Rating, Add	2,190.93		
		For Class 55 Rating, Add	3,271.97		
		For Class 56 Rating, Add	4,338.60		
40 05 19 00-3520	EA	36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	18,060.91		1,587.66
		For Class 52 Rating, Deduct	-1,722.09		
		For Class 54 Rating, Add	2,377.17		
		For Class 55 Rating, Add	3,548.88		
		For Class 56 Rating, Add	4,704.93		
40 05 19 00-3521	EA	36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	19,306.71		1,590.67
		For Class 52 Rating, Deduct	-1,858.63		
		For Class 54 Rating, Add	2,563.41		
		For Class 55 Rating, Add	3,825.78		
		For Class 56 Rating, Add	5,071.26		
40 05 19 00-3522	EA	36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	20,552.50		1,593.69
		For Class 52 Rating, Deduct	-1,995.16		
		For Class 54 Rating, Add	2,749.65		
		For Class 55 Rating, Add	4,102.69		
		For Class 56 Rating, Add	5,437.59		
40 05 19 00-3523	EA	36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	21,798.31		1,596.70
		For Class 52 Rating, Deduct	-2,131.70		
		For Class 54 Rating, Add	2,935.89		
		For Class 55 Rating, Add	4,379.59		
		For Class 56 Rating, Add	5,803.92		
40 05 19 00-3524	EA	36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	23,044.10		1,599.70
		For Class 52 Rating, Deduct	-2,268.23		
		For Class 54 Rating, Add	3,122.13		
		For Class 55 Rating, Add	4,656.50		
		For Class 56 Rating, Add	6,170.25		
40 05 19 00-3525	EA	36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	24,289.91		1,602.73
		For Class 52 Rating, Deduct	-2,404.77		
		For Class 54 Rating, Add	3,308.37		
		For Class 55 Rating, Add	4,933.40		
		For Class 56 Rating, Add	6,536.58		
40 05 19 00-3526	EA	36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	25,535.70		1,605.74
		For Class 52 Rating, Deduct	-2,541.30		
		For Class 54 Rating, Add	3,494.61		
		For Class 55 Rating, Add	5,210.31		
		For Class 56 Rating, Add	6,902.90		
40 05 19 00-3527	EA	36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	26,781.50		1,608.74
		For Class 52 Rating, Deduct	-2,677.84		
		For Class 54 Rating, Add	3,680.85		
		For Class 55 Rating, Add	5,487.21		
		For Class 56 Rating, Add	7,269.23		
40 05 19 00-3528	EA	36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	28,027.30		1,611.76
		For Class 52 Rating, Deduct	-2,814.38		
		For Class 54 Rating, Add	3,867.09		
		For Class 55 Rating, Add	5,764.12		
		For Class 56 Rating, Add	7,635.56		
40 05 19 00-3529	EA	36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	29,273.10		1,614.77
		For Class 52 Rating, Deduct	-2,950.91		
		For Class 54 Rating, Add	4,053.33		
		For Class 55 Rating, Add	6,041.02		
		For Class 56 Rating, Add	8,001.89		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3530	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	30,518.90	1,617.79
			For Class 52 Rating, Deduct.....	-3,087.45	
			For Class 54 Rating, Add.....	4,239.57	
			For Class 55 Rating, Add.....	6,317.93	
			For Class 56 Rating, Add.....	8,368.22	
40 05 19 00-3531	EA		36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	31,764.70	1,620.79
			For Class 52 Rating, Deduct.....	-3,223.98	
			For Class 54 Rating, Add.....	4,425.81	
			For Class 55 Rating, Add.....	6,594.83	
			For Class 56 Rating, Add.....	8,734.54	
40 05 19 00-3532	EA		36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	33,010.49	1,623.81
			For Class 52 Rating, Deduct.....	-3,360.52	
			For Class 54 Rating, Add.....	4,612.05	
			For Class 55 Rating, Add.....	6,871.74	
			For Class 56 Rating, Add.....	9,100.87	
40 05 19 00-3533	EA		36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	34,256.30	1,626.83
			For Class 52 Rating, Deduct.....	-3,497.06	
			For Class 54 Rating, Add.....	4,798.29	
			For Class 55 Rating, Add.....	7,148.64	
			For Class 56 Rating, Add.....	9,467.20	
40 05 19 00-3534	EA		36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	35,502.09	1,629.84
			For Class 52 Rating, Deduct.....	-3,633.59	
			For Class 54 Rating, Add.....	4,984.53	
			For Class 55 Rating, Add.....	7,425.55	
			For Class 56 Rating, Add.....	9,833.53	
40 05 19 00-3535	EA		36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	36,747.90	1,632.84
			For Class 52 Rating, Deduct.....	-3,770.13	
			For Class 54 Rating, Add.....	5,170.77	
			For Class 55 Rating, Add.....	7,702.45	
			For Class 56 Rating, Add.....	10,199.86	
40 05 19 00-3536	EA		36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	37,993.69	1,635.86
			For Class 52 Rating, Deduct.....	-3,906.66	
			For Class 54 Rating, Add.....	5,357.01	
			For Class 55 Rating, Add.....	7,979.36	
			For Class 56 Rating, Add.....	10,566.19	
40 05 19 00-3537	EA		36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	39,239.49	1,638.88
			For Class 52 Rating, Deduct.....	-4,043.20	
			For Class 54 Rating, Add.....	5,543.25	
			For Class 55 Rating, Add.....	8,256.26	
			For Class 56 Rating, Add.....	10,932.51	
40 05 19 00-3538	EA		36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	40,485.28	1,641.89
			For Class 52 Rating, Deduct.....	-4,179.73	
			For Class 54 Rating, Add.....	5,729.49	
			For Class 55 Rating, Add.....	8,533.17	
			For Class 56 Rating, Add.....	11,298.84	
40 05 19 00-3539	EA		36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	41,731.08	1,644.90
			For Class 52 Rating, Deduct.....	-4,316.27	
			For Class 54 Rating, Add.....	5,915.73	
			For Class 55 Rating, Add.....	8,810.07	
			For Class 56 Rating, Add.....	11,665.17	
40 05 19 00-3540	EA		36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	42,976.88	1,647.91
			For Class 52 Rating, Deduct.....	-4,452.81	
			For Class 54 Rating, Add.....	6,101.97	
			For Class 55 Rating, Add.....	9,086.98	
			For Class 56 Rating, Add.....	12,031.50	
40 05 19 00-3541	EA		36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	44,222.68	1,650.93
			For Class 52 Rating, Deduct.....	-4,589.34	
			For Class 54 Rating, Add.....	6,288.21	
			For Class 55 Rating, Add.....	9,363.88	
			For Class 56 Rating, Add.....	12,397.83	
40 05 19 00-3542	EA		36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	45,468.47	1,653.93
			For Class 52 Rating, Deduct.....	-4,725.88	
			For Class 54 Rating, Add.....	6,474.45	
			For Class 55 Rating, Add.....	9,640.78	
			For Class 56 Rating, Add.....	12,764.16	
40 05 19 00-3543	EA		36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
			Coat, Ductile Iron Pipe.....	46,714.28	1,656.95
			For Class 52 Rating, Deduct.....	-4,862.41	
			For Class 54 Rating, Add.....	6,660.69	
			For Class 55 Rating, Add.....	9,917.69	
			For Class 56 Rating, Add.....	13,130.49	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3544	EA	36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	47,960.07		1,659.97
		For Class 52 Rating, Deduct	-4,998.95		
		For Class 54 Rating, Add	6,846.93		
		For Class 55 Rating, Add	10,194.59		
		For Class 56 Rating, Add	13,496.81		
40 05 19 00-3545	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	49,205.88		1,662.97
		For Class 52 Rating, Deduct	-5,135.48		
		For Class 54 Rating, Add	7,033.17		
		For Class 55 Rating, Add	10,471.50		
		For Class 56 Rating, Add	13,863.14		
40 05 19 00-3546	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	50,451.67		1,665.99
		For Class 52 Rating, Deduct	-5,272.02		
		For Class 54 Rating, Add	7,219.41		
		For Class 55 Rating, Add	10,748.40		
		For Class 56 Rating, Add	14,229.47		
40 05 19 00-3547	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	51,697.47		1,669.00
		For Class 52 Rating, Deduct	-5,408.55		
		For Class 54 Rating, Add	7,405.65		
		For Class 55 Rating, Add	11,025.31		
		For Class 56 Rating, Add	14,595.80		
40 05 19 00-3548	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	52,943.27		1,672.02
		For Class 52 Rating, Deduct	-5,545.09		
		For Class 54 Rating, Add	7,591.89		
		For Class 55 Rating, Add	11,302.21		
		For Class 56 Rating, Add	14,962.13		
40 05 19 00-3549	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	54,189.07		1,675.03
		For Class 52 Rating, Deduct	-5,681.63		
		For Class 54 Rating, Add	7,778.13		
		For Class 55 Rating, Add	11,579.12		
		For Class 56 Rating, Add	15,328.45		
40 05 19 00-3550		42" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)			
40 05 19 00-3551	EA	42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	15,671.40		1,982.31
		For Class 52 Rating, Deduct	-1,393.47		
		For Class 54 Rating, Add	1,936.23		
		For Class 55 Rating, Add	2,897.02		
		For Class 56 Rating, Add	3,845.15		
40 05 19 00-3552	EA	42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	17,507.39		1,985.33
		For Class 52 Rating, Deduct	-1,594.93		
		For Class 54 Rating, Add	2,210.99		
		For Class 55 Rating, Add	3,305.54		
		For Class 56 Rating, Add	4,365.59		
40 05 19 00-3553	EA	42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	19,328.17		1,988.34
		For Class 52 Rating, Deduct	-1,794.71		
		For Class 54 Rating, Add	2,483.48		
		For Class 55 Rating, Add	3,710.67		
		For Class 56 Rating, Add	4,921.54		
40 05 19 00-3554	EA	42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	21,167.20		1,991.36
		For Class 52 Rating, Deduct	-1,996.50		
		For Class 54 Rating, Add	2,758.71		
		For Class 55 Rating, Add	4,119.86		
		For Class 56 Rating, Add	5,462.87		
40 05 19 00-3555	EA	42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	22,994.08		1,994.37
		For Class 52 Rating, Deduct	-2,196.95		
		For Class 54 Rating, Add	3,032.11		
		For Class 55 Rating, Add	4,526.35		
		For Class 56 Rating, Add	6,000.62		
40 05 19 00-3556	EA	42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	24,839.19		1,997.37
		For Class 52 Rating, Deduct	-2,399.41		
		For Class 54 Rating, Add	3,308.24		
		For Class 55 Rating, Add	4,936.90		
		For Class 56 Rating, Add	6,543.74		
40 05 19 00-3557	EA	42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	26,666.06		2,000.39
		For Class 52 Rating, Deduct	-2,599.87		
		For Class 54 Rating, Add	3,581.64		
		For Class 55 Rating, Add	5,343.38		
		For Class 56 Rating, Add	7,081.48		



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 19 00-3558	EA	42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	28,514.22	2,003.41
		For Class 52 Rating, Deduct	-2,802.66	
		For Class 54 Rating, Add	3,858.24	
		For Class 55 Rating, Add	5,754.61	
		For Class 56 Rating, Add	7,625.51	
40 05 19 00-3559	EA	42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	30,344.13	2,006.42
		For Class 52 Rating, Deduct	-3,003.45	
		For Class 54 Rating, Add	4,132.10	
		For Class 55 Rating, Add	6,161.78	
		For Class 56 Rating, Add	8,164.15	
40 05 19 00-3560	EA	42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	32,195.33	2,009.43
		For Class 52 Rating, Deduct	-3,206.58	
		For Class 54 Rating, Add	4,409.15	
		For Class 55 Rating, Add	6,573.69	
		For Class 56 Rating, Add	8,709.07	
40 05 19 00-3561	EA	42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	34,025.25	2,012.44
		For Class 52 Rating, Deduct	-3,407.37	
		For Class 54 Rating, Add	4,683.00	
		For Class 55 Rating, Add	6,980.85	
		For Class 56 Rating, Add	9,247.72	
40 05 19 00-3562	EA	42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	35,876.45	2,015.46
		For Class 52 Rating, Deduct	-3,610.50	
		For Class 54 Rating, Add	4,960.05	
		For Class 55 Rating, Add	7,392.76	
		For Class 56 Rating, Add	9,792.64	
40 05 19 00-3563	EA	42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	37,709.40	2,018.46
		For Class 52 Rating, Deduct	-3,811.62	
		For Class 54 Rating, Add	5,234.37	
		For Class 55 Rating, Add	7,800.60	
		For Class 56 Rating, Add	10,332.18	
40 05 19 00-3564	EA	42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	39,545.38	2,021.48
		For Class 52 Rating, Deduct	-4,013.08	
		For Class 54 Rating, Add	5,509.14	
		For Class 55 Rating, Add	8,209.11	
		For Class 56 Rating, Add	10,872.61	
40 05 19 00-3565	EA	42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	41,393.55	2,024.50
		For Class 52 Rating, Deduct	-4,215.88	
		For Class 54 Rating, Add	5,785.73	
		For Class 55 Rating, Add	8,620.35	
		For Class 56 Rating, Add	11,416.64	
40 05 19 00-3566	EA	42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	43,226.50	2,027.51
		For Class 52 Rating, Deduct	-4,417.00	
		For Class 54 Rating, Add	6,060.04	
		For Class 55 Rating, Add	9,028.19	
		For Class 56 Rating, Add	11,956.18	
40 05 19 00-3567	EA	42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	45,080.75	2,030.51
		For Class 52 Rating, Deduct	-4,620.46	
		For Class 54 Rating, Add	6,337.55	
		For Class 55 Rating, Add	9,440.78	
		For Class 56 Rating, Add	12,502.00	
40 05 19 00-3568	EA	42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	46,916.74	2,033.53
		For Class 52 Rating, Deduct	-4,821.92	
		For Class 54 Rating, Add	6,612.32	
		For Class 55 Rating, Add	9,849.29	
		For Class 56 Rating, Add	13,042.43	
40 05 19 00-3569	EA	42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	48,767.95	2,036.55
		For Class 52 Rating, Deduct	-5,025.05	
		For Class 54 Rating, Add	6,889.37	
		For Class 55 Rating, Add	10,261.20	
		For Class 56 Rating, Add	13,587.36	
40 05 19 00-3570	EA	42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	50,603.93	2,039.55
		For Class 52 Rating, Deduct	-5,226.51	
		For Class 54 Rating, Add	7,164.14	
		For Class 55 Rating, Add	10,669.72	
		For Class 56 Rating, Add	14,127.79	
40 05 19 00-3571	EA	42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
		Coat, Ductile Iron Pipe	52,458.19	2,042.57
		For Class 52 Rating, Deduct	-5,429.97	
		For Class 54 Rating, Add	7,441.65	
		For Class 55 Rating, Add	11,082.31	
		For Class 56 Rating, Add	14,673.61	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
40 05 19 00-3572	EA	42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	54,294.17		2,045.58
		For Class 52 Rating, Deduct	-5,631.43		
		For Class 54 Rating, Add	7,716.41		
		For Class 55 Rating, Add	11,490.83		
		For Class 56 Rating, Add	15,214.05		
40 05 19 00-3573	EA	42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	56,148.43		2,048.60
		For Class 52 Rating, Deduct	-5,834.90		
		For Class 54 Rating, Add	7,993.92		
		For Class 55 Rating, Add	11,903.42		
		For Class 56 Rating, Add	15,759.87		
40 05 19 00-3574	EA	42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	57,981.37		2,051.60
		For Class 52 Rating, Deduct	-6,036.02		
		For Class 54 Rating, Add	8,268.23		
		For Class 55 Rating, Add	12,311.26		
		For Class 56 Rating, Add	16,299.41		
40 05 19 00-3575	EA	42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	59,838.67		2,054.62
		For Class 52 Rating, Deduct	-6,239.82		
		For Class 54 Rating, Add	8,546.20		
		For Class 55 Rating, Add	12,724.52		
		For Class 56 Rating, Add	16,846.13		
40 05 19 00-3576	EA	42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	61,674.66		2,057.64
		For Class 52 Rating, Deduct	-6,441.27		
		For Class 54 Rating, Add	8,820.97		
		For Class 55 Rating, Add	13,133.04		
		For Class 56 Rating, Add	17,386.56		
40 05 19 00-3577	EA	42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	63,525.87		2,060.64
		For Class 52 Rating, Deduct	-6,644.40		
		For Class 54 Rating, Add	9,098.02		
		For Class 55 Rating, Add	13,544.95		
		For Class 56 Rating, Add	17,931.48		
40 05 19 00-3578	EA	42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	65,364.90		2,063.65
		For Class 52 Rating, Deduct	-6,846.20		
		For Class 54 Rating, Add	9,373.24		
		For Class 55 Rating, Add	13,954.15		
		For Class 56 Rating, Add	18,472.82		
40 05 19 00-3579	EA	42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	66,841.91		2,066.67
		For Class 52 Rating, Deduct	-7,008.16		
		For Class 54 Rating, Add	9,594.16		
		For Class 55 Rating, Add	14,282.61		
		For Class 56 Rating, Add	18,907.35		
40 05 19 00-3580	EA	42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	69,055.14		2,069.69
		For Class 52 Rating, Deduct	-7,251.12		
		For Class 54 Rating, Add	9,925.52		
		For Class 55 Rating, Add	14,775.26		
		For Class 56 Rating, Add	19,559.07		
40 05 19 00-3581	EA	42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	70,888.09		2,072.69
		For Class 52 Rating, Deduct	-7,452.24		
		For Class 54 Rating, Add	10,199.83		
		For Class 55 Rating, Add	15,183.09		
		For Class 56 Rating, Add	20,098.61		
40 05 19 00-3582	EA	42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	72,742.33		2,075.71
		For Class 52 Rating, Deduct	-7,655.71		
		For Class 54 Rating, Add	10,477.34		
		For Class 55 Rating, Add	15,595.68		
		For Class 56 Rating, Add	20,644.43		
40 05 19 00-3583	EA	42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	74,578.33		2,078.72
		For Class 52 Rating, Deduct	-7,857.16		
		For Class 54 Rating, Add	10,752.11		
		For Class 55 Rating, Add	16,004.20		
		For Class 56 Rating, Add	21,184.87		
40 05 19 00-3584	EA	42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	76,435.62		2,081.74
		For Class 52 Rating, Deduct	-8,060.96		
		For Class 54 Rating, Add	11,030.07		
		For Class 55 Rating, Add	16,417.47		
		For Class 56 Rating, Add	21,731.59		
40 05 19 00-3585	EA	42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	78,268.57		2,084.74
		For Class 52 Rating, Deduct	-8,262.08		
		For Class 54 Rating, Add	11,304.38		
		For Class 55 Rating, Add	16,825.31		
		For Class 56 Rating, Add	22,271.12		



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Ductile Iron Process Pipe		40 05 19

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3586			48" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3082)		
40 05 19 00-3587	EA		48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,248.65	2,491.45
			For Class 52 Rating, Deduct	-1,812.11	
			For Class 54 Rating, Add	2,516.36	
			For Class 55 Rating, Add	3,764.24	
			For Class 56 Rating, Add	4,995.65	
40 05 19 00-3588	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,887.80	2,494.46
			For Class 52 Rating, Deduct	-2,101.91	
			For Class 54 Rating, Add	2,911.60	
			For Class 55 Rating, Add	4,351.86	
			For Class 56 Rating, Add	5,773.01	
40 05 19 00-3589	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,536.07	2,497.48
			For Class 52 Rating, Deduct	-2,392.72	
			For Class 54 Rating, Add	3,308.21	
			For Class 55 Rating, Add	4,941.52	
			For Class 56 Rating, Add	6,553.07	
40 05 19 00-3590	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,211.72	2,500.49
			For Class 52 Rating, Deduct	-2,686.54	
			For Class 54 Rating, Add	3,708.93	
			For Class 55 Rating, Add	5,537.28	
			For Class 56 Rating, Add	7,341.20	
40 05 19 00-3591	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	30,881.28	2,503.49
			For Class 52 Rating, Deduct	-2,979.69	
			For Class 54 Rating, Add	4,108.73	
			For Class 55 Rating, Add	6,131.68	
			For Class 56 Rating, Add	8,127.54	
40 05 19 00-3592	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	33,553.90	2,506.52
			For Class 52 Rating, Deduct	-3,273.18	
			For Class 54 Rating, Add	4,509.00	
			For Class 55 Rating, Add	6,726.77	
			For Class 56 Rating, Add	8,914.78	
40 05 19 00-3593	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	36,244.76	2,509.53
			For Class 52 Rating, Deduct	-3,568.67	
			For Class 54 Rating, Add	4,912.00	
			For Class 55 Rating, Add	7,325.92	
			For Class 56 Rating, Add	9,707.41	
40 05 19 00-3594	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,929.54	2,512.53
			For Class 52 Rating, Deduct	-3,863.49	
			For Class 54 Rating, Add	5,314.08	
			For Class 55 Rating, Add	7,923.72	
			For Class 56 Rating, Add	10,498.23	
40 05 19 00-3595	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,608.23	2,515.55
			For Class 52 Rating, Deduct	-4,157.65	
			For Class 54 Rating, Add	5,715.26	
			For Class 55 Rating, Add	8,520.16	
			For Class 56 Rating, Add	11,287.26	
40 05 19 00-3596	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	44,311.27	2,518.56
			For Class 52 Rating, Deduct	-4,454.48	
			For Class 54 Rating, Add	6,120.08	
			For Class 55 Rating, Add	9,122.03	
			For Class 56 Rating, Add	12,083.48	
40 05 19 00-3597	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	47,002.12	2,521.59
			For Class 52 Rating, Deduct	-4,749.97	
			For Class 54 Rating, Add	6,523.08	
			For Class 55 Rating, Add	9,721.18	
			For Class 56 Rating, Add	12,876.10	
40 05 19 00-3598	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	49,708.20	2,524.59
			For Class 52 Rating, Deduct	-5,047.14	
			For Class 54 Rating, Add	6,928.36	
			For Class 55 Rating, Add	10,323.73	
			For Class 56 Rating, Add	13,673.21	
40 05 19 00-3599	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	52,396.02	2,527.60
			For Class 52 Rating, Deduct	-5,342.30	
			For Class 54 Rating, Add	7,330.90	
			For Class 55 Rating, Add	10,922.20	
			For Class 56 Rating, Add	14,464.93	
40 05 19 00-3600	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	55,089.93	2,530.62
			For Class 52 Rating, Deduct	-5,638.12	
			For Class 54 Rating, Add	7,734.36	
			For Class 55 Rating, Add	11,522.03	
			For Class 56 Rating, Add	15,258.45	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-3601	EA	48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	57,799.04		2,533.63
		For Class 52 Rating, Deduct	-5,935.62		
		For Class 54 Rating, Add	8,140.10		
		For Class 55 Rating, Add	12,125.26		
		For Class 56 Rating, Add	16,056.46		
40 05 19 00-3602	EA	48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	60,492.95		2,536.63
		For Class 52 Rating, Deduct	-6,231.45		
		For Class 54 Rating, Add	8,543.55		
		For Class 55 Rating, Add	12,725.09		
		For Class 56 Rating, Add	16,849.98		
40 05 19 00-3603	EA	48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	63,186.85		2,539.66
		For Class 52 Rating, Deduct	-6,527.28		
		For Class 54 Rating, Add	8,947.01		
		For Class 55 Rating, Add	13,324.92		
		For Class 56 Rating, Add	17,643.50		
40 05 19 00-3604	EA	48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	65,899.01		2,542.67
		For Class 52 Rating, Deduct	-6,825.11		
		For Class 54 Rating, Add	9,353.20		
		For Class 55 Rating, Add	13,928.83		
		For Class 56 Rating, Add	18,442.40		
40 05 19 00-3605	EA	48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	68,595.96		2,545.68
		For Class 52 Rating, Deduct	-7,121.28		
		For Class 54 Rating, Add	9,757.12		
		For Class 55 Rating, Add	14,529.34		
		For Class 56 Rating, Add	19,236.82		
40 05 19 00-3606	EA	48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	71,289.87		2,548.69
		For Class 52 Rating, Deduct	-7,417.10		
		For Class 54 Rating, Add	10,160.57		
		For Class 55 Rating, Add	15,129.17		
		For Class 56 Rating, Add	20,030.34		
40 05 19 00-3607	EA	48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	74,008.11		2,551.70
		For Class 52 Rating, Deduct	-7,715.61		
		For Class 54 Rating, Add	10,567.68		
		For Class 55 Rating, Add	15,734.43		
		For Class 56 Rating, Add	20,831.04		
40 05 19 00-3608	EA	48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	76,708.09		2,554.73
		For Class 52 Rating, Deduct	-8,012.10		
		For Class 54 Rating, Add	10,972.05		
		For Class 55 Rating, Add	16,335.62		
		For Class 56 Rating, Add	21,626.35		
40 05 19 00-3609	EA	48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	79,405.03		2,557.73
		For Class 52 Rating, Deduct	-8,308.27		
		For Class 54 Rating, Add	11,375.96		
		For Class 55 Rating, Add	16,936.13		
		For Class 56 Rating, Add	22,420.77		
40 05 19 00-3610	EA	48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	82,120.24		2,560.74
		For Class 52 Rating, Deduct	-8,606.44		
		For Class 54 Rating, Add	11,782.61		
		For Class 55 Rating, Add	17,540.71		
		For Class 56 Rating, Add	23,220.57		
40 05 19 00-3611	EA	48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	84,820.22		2,563.76
		For Class 52 Rating, Deduct	-8,902.93		
		For Class 54 Rating, Add	12,186.98		
		For Class 55 Rating, Add	18,141.90		
		For Class 56 Rating, Add	24,015.89		
40 05 19 00-3612	EA	48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	87,517.18		2,566.76
		For Class 52 Rating, Deduct	-9,199.10		
		For Class 54 Rating, Add	12,590.89		
		For Class 55 Rating, Add	18,742.41		
		For Class 56 Rating, Add	24,810.31		
40 05 19 00-3613	EA	48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	90,235.41		2,569.78
		For Class 52 Rating, Deduct	-9,497.60		
		For Class 54 Rating, Add	12,997.99		
		For Class 55 Rating, Add	19,347.67		
		For Class 56 Rating, Add	25,611.00		
40 05 19 00-3614	EA	48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal			
		Coat, Ductile Iron Pipe.....	92,935.41		2,572.80
		For Class 52 Rating, Deduct	-9,794.10		
		For Class 54 Rating, Add	13,402.36		
		For Class 55 Rating, Add	19,948.86		
		For Class 56 Rating, Add	26,406.32		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3615	EA		48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	95,315.96	2,575.81
			For Class 52 Rating, Deduct.....	-10,055.46	
			For Class 54 Rating, Add.....	13,758.82	
			For Class 55 Rating, Add.....	20,478.82	
			For Class 56 Rating, Add.....	27,107.40	
40 05 19 00-3616	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	98,356.68	2,578.82
			For Class 52 Rating, Deduct.....	-10,389.43	
			For Class 54 Rating, Add.....	14,214.29	
			For Class 55 Rating, Add.....	21,155.99	
			For Class 56 Rating, Add.....	28,003.23	
40 05 19 00-3617	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	101,053.63	2,581.83
			For Class 52 Rating, Deduct.....	-10,685.59	
			For Class 54 Rating, Add.....	14,618.21	
			For Class 55 Rating, Add.....	21,756.50	
			For Class 56 Rating, Add.....	28,797.65	
40 05 19 00-3618	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	103,777.96	2,584.84
			For Class 52 Rating, Deduct.....	-10,984.77	
			For Class 54 Rating, Add.....	15,026.23	
			For Class 55 Rating, Add.....	22,363.12	
			For Class 56 Rating, Add.....	29,600.14	
40 05 19 00-3619	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	106,474.90	2,587.85
			For Class 52 Rating, Deduct.....	-11,280.93	
			For Class 54 Rating, Add.....	15,430.14	
			For Class 55 Rating, Add.....	22,963.63	
			For Class 56 Rating, Add.....	30,394.56	
40 05 19 00-3620	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	109,171.85	2,590.87
			For Class 52 Rating, Deduct.....	-11,577.09	
			For Class 54 Rating, Add.....	15,834.05	
			For Class 55 Rating, Add.....	23,564.14	
			For Class 56 Rating, Add.....	31,188.98	
40 05 19 00-3621	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	111,896.18	2,593.89
			For Class 52 Rating, Deduct.....	-11,876.27	
			For Class 54 Rating, Add.....	16,242.07	
			For Class 55 Rating, Add.....	24,170.75	
			For Class 56 Rating, Add.....	31,991.47	
40 05 19 00-3622 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows (40 05 19 00-2073)					
40 05 19 00-3623	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	819.84	145.35
40 05 19 00-3624	EA		6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,200.35	185.87
40 05 19 00-3625	EA		8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,713.06	210.53
40 05 19 00-3626	EA		10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,446.80	266.91
40 05 19 00-3627	EA		12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,048.47	295.97
40 05 19 00-3628	EA		14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,738.87	321.53
40 05 19 00-3629	EA		16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	4,591.33	396.40
40 05 19 00-3630	EA		18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,759.52	475.68
40 05 19 00-3631	EA		20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	7,039.80	599.01
40 05 19 00-3632	EA		24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	10,473.77	678.29
40 05 19 00-3633	EA		30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	16,254.38	898.50
40 05 19 00-3634	EA		36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	24,103.62	1,017.43
40 05 19 00-3635	EA		42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	41,136.63	1,162.78
40 05 19 00-3636	EA		48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	54,419.57	1,427.04
40 05 19 00-3637 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbows (40 05 19 00-2073)					
40 05 19 00-3638	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	781.21	145.35
40 05 19 00-3639	EA		6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,136.53	185.87
40 05 19 00-3640	EA		8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,555.18	210.53
40 05 19 00-3641	EA		10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,221.74	266.91
40 05 19 00-3642	EA		12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,757.90	295.97
40 05 19 00-3643	EA		14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,213.15	321.53
40 05 19 00-3644	EA		16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,949.72	396.40
40 05 19 00-3645	EA		18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	5,027.21	475.68
40 05 19 00-3646	EA		20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	6,322.61	599.01
40 05 19 00-3647	EA		24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	8,302.05	678.29
40 05 19 00-3648	EA		30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	15,869.75	898.50
40 05 19 00-3649	EA		36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	23,589.66	1,017.43
40 05 19 00-3650	EA		42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	35,664.50	1,162.78
40 05 19 00-3651	EA		48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	48,226.89	1,427.04
40 05 19 00-3652 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows (40 05 19 00-2073)					
40 05 19 00-3653	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	779.53	145.35

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3654	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,114.69	185.87
40 05 19 00-3655	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	1,541.74	210.53
40 05 19 00-3656	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,169.67	266.91
40 05 19 00-3657	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	2,873.79	295.97
40 05 19 00-3658	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	3,567.55	321.53
40 05 19 00-3659	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	4,030.34	396.40
40 05 19 00-3660	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	5,124.63	475.68
40 05 19 00-3661	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	6,740.83	599.01
40 05 19 00-3662	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	9,267.82	678.29
40 05 19 00-3663	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	16,041.07	898.50
40 05 19 00-3664	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	23,981.01	1,017.43
40 05 19 00-3665	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	36,445.51	1,162.78
40 05 19 00-3666	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow	49,248.09	1,427.04
40 05 19 00-3667 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows (40 05 19 00-2073)				
40 05 19 00-3668	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	845.03	145.35
40 05 19 00-3669	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,237.30	185.87
40 05 19 00-3670	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	1,592.13	210.53
40 05 19 00-3671	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	2,349.39	266.91
40 05 19 00-3672	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,208.03	295.97
40 05 19 00-3673	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	3,653.21	321.53
40 05 19 00-3674	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	4,391.46	396.40
40 05 19 00-3675	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	5,124.63	475.68
40 05 19 00-3676	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	6,740.83	599.01
40 05 19 00-3677	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	9,610.46	678.29
40 05 19 00-3678	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	16,209.03	898.50
40 05 19 00-3679	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	24,152.33	1,017.43
40 05 19 00-3680	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	36,625.23	1,162.78
40 05 19 00-3681	EA	48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow	49,610.88	1,427.04
40 05 19 00-3682 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows (40 05 19 00-2073)				
40 05 19 00-3683	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,167.98	165.60
40 05 19 00-3684	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,505.79	177.94
40 05 19 00-3685	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	1,635.59	198.20
40 05 19 00-3686	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,245.54	206.13
40 05 19 00-3687	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,287.99	226.39
40 05 19 00-3688	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,456.16	238.72
40 05 19 00-3689	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,681.87	241.36
40 05 19 00-3690	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	2,994.48	253.69
40 05 19 00-3691	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,136.29	281.88
40 05 19 00-3692	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,122.13	253.69
40 05 19 00-3693	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,386.05	266.02
40 05 19 00-3694	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,670.61	294.21
40 05 19 00-3695	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,988.91	309.19
40 05 19 00-3696	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,593.72	291.13
40 05 19 00-3697	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	3,808.92	303.46
40 05 19 00-3698	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,241.30	331.65
40 05 19 00-3699	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,560.61	346.19
40 05 19 00-3700	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,821.82	358.96
40 05 19 00-3701	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,172.78	330.78
40 05 19 00-3702	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,829.71	343.11
40 05 19 00-3703	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,917.76	371.30
40 05 19 00-3704	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,136.31	385.83
40 05 19 00-3705	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,498.29	398.60
40 05 19 00-3706	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,894.30	436.04
40 05 19 00-3707	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,216.86	392.44
40 05 19 00-3708	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,500.93	404.77
40 05 19 00-3709	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,596.74	432.96
40 05 19 00-3710	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,796.80	447.50
40 05 19 00-3711	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,405.69	460.26
40 05 19 00-3712	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,220.56	497.70
40 05 19 00-3713	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,594.70	537.34
40 05 19 00-3714	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,213.50	432.07
40 05 19 00-3715	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,492.52	444.40
40 05 19 00-3716	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,958.50	472.59
40 05 19 00-3717	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,296.27	487.13
40 05 19 00-3718	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,947.16	499.91
40 05 19 00-3719	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,531.27	537.34
40 05 19 00-3720	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,695.48	576.98
40 05 19 00-3721	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	10,157.77	570.60
40 05 19 00-3722	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,255.65	597.24
40 05 19 00-3723	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,953.57	610.02
40 05 19 00-3724	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,664.69	647.45
40 05 19 00-3725	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,510.17	687.09
40 05 19 00-3726	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	22,095.89	748.76
40 05 19 00-3727	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,613.83	788.40



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3728	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	21,352.90	808.21
40 05 19 00-3729	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	23,327.70	847.86
40 05 19 00-3730	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	24,455.26	957.97
40 05 19 00-3731	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	31,656.50	880.89
40 05 19 00-3732	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,423.67	920.53
40 05 19 00-3733	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	32,395.68	1,030.64
40 05 19 00-3734	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	46,226.57	1,090.10
40 05 19 00-3735	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	44,216.36	1,063.68
40 05 19 00-3736	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	48,064.88	1,173.78
40 05 19 00-3737	EA	48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	49,439.86	1,233.25
40 05 19 00-3738	EA	48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	61,330.69	1,305.91
40 05 19 00-3739	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows (40 05 19 00-2073)			
40 05 19 00-3740	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	962.60	145.35
40 05 19 00-3741	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,512.76	185.87
40 05 19 00-3742	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,243.81	210.53
40 05 19 00-3743	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,132.08	266.91
40 05 19 00-3744	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,378.71	295.97
40 05 19 00-3745	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	5,132.93	321.53
40 05 19 00-3746	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,541.35	396.40
40 05 19 00-3747	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	8,006.82	475.68
40 05 19 00-3748	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	10,689.57	599.01
40 05 19 00-3749	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	15,583.11	678.29
40 05 19 00-3750	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	26,978.63	898.50
40 05 19 00-3751	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	40,837.47	1,017.43
40 05 19 00-3752	EA	42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	62,904.25	1,162.78
40 05 19 00-3753	Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbows (40 05 19 00-2073)			
40 05 19 00-3754	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	2,013.31	165.60
40 05 19 00-3755	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,396.54	177.94
40 05 19 00-3756	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,205.17	198.20
40 05 19 00-3757	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,590.44	206.13
40 05 19 00-3758	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	3,967.94	226.39
40 05 19 00-3759	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	4,104.77	238.72
40 05 19 00-3760	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,299.76	241.36
40 05 19 00-3761	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,368.93	253.69
40 05 19 00-3762	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	6,411.65	281.88
40 05 19 00-3763	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	8,532.74	266.02
40 05 19 00-3764	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	12,140.85	294.21
40 05 19 00-3765	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	11,871.18	309.19
40 05 19 00-3766	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,653.20	303.46
40 05 19 00-3767	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	15,550.39	331.65
40 05 19 00-3768	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,509.30	346.19
40 05 19 00-3769	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	14,397.31	358.96
40 05 19 00-3770	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,324.09	385.83
40 05 19 00-3771	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,427.00	398.60
40 05 19 00-3772	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	17,567.32	436.04
40 05 19 00-3773	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,667.86	460.26
40 05 19 00-3774	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	24,130.57	497.70
40 05 19 00-3775	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	19,596.59	537.34
40 05 19 00-3776	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	35,958.93	499.91
40 05 19 00-3777	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	28,744.01	537.34
40 05 19 00-3778	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow	21,532.44	576.98

40 Process Interconnections
40 05 Common Work Results For Process Interconnections
40 05 19 Ductile Iron Process Pipe



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-3779 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius Reducing 90 Degree Elbow 29,417.14 570.60

40 05 19 00-3780 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base (40 05 19 00-2073)

40 05 19 00-3781 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 1,009.63 145.35
40 05 19 00-3782 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 1,420.38 185.87
40 05 19 00-3783 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 2,305.96 210.53
40 05 19 00-3784 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 3,085.05 266.91
40 05 19 00-3785 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 4,121.74 295.97
40 05 19 00-3786 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 4,886.03 321.53
40 05 19 00-3787 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 5,955.16 396.40
40 05 19 00-3788 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 7,375.30 475.68
40 05 19 00-3789 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 9,528.97 599.01
40 05 19 00-3790 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 13,372.76 678.29
40 05 19 00-3791 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 21,565.28 898.50
40 05 19 00-3792 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 30,691.01 1,017.43
40 05 19 00-3793 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 54,014.13 1,162.78
40 05 19 00-3794 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base 60,612.26 1,427.04

40 05 19 00-3795 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees (40 05 19 00-2073)

40 05 19 00-3796 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 1,242.20 233.44
40 05 19 00-3797 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 1,607.47 287.17
40 05 19 00-3798 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 2,319.94 320.64
40 05 19 00-3799 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 3,280.04 416.66
40 05 19 00-3800 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 4,383.81 454.54
40 05 19 00-3801 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 5,871.92 488.89
40 05 19 00-3802 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 6,349.30 616.62
40 05 19 00-3803 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 7,883.56 704.71
40 05 19 00-3804 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 9,917.35 889.70
40 05 19 00-3805 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 14,604.17 982.19
40 05 19 00-3806 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 23,996.02 1,356.57
40 05 19 00-3807 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 33,915.39 1,554.77
40 05 19 00-3808 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee 72,464.78 1,797.01

40 05 19 00-3809 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tees (40 05 19 00-2073)

40 05 19 00-3810 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 1,653.08 260.74
40 05 19 00-3811 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 2,141.47 266.02
40 05 19 00-3812 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 2,108.20 299.50
40 05 19 00-3813 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 2,850.97 294.21
40 05 19 00-3814 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 2,779.08 327.69
40 05 19 00-3815 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 2,896.78 348.83
40 05 19 00-3816 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 3,637.88 309.19
40 05 19 00-3817 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 3,594.55 342.67
40 05 19 00-3818 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 3,750.86 363.81
40 05 19 00-3819 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 4,325.61 431.64
40 05 19 00-3820 EA 14" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,206.84 321.53
40 05 19 00-3821 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,082.88 355.00
40 05 19 00-3822 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,262.71 376.14
40 05 19 00-3823 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,462.90 443.97
40 05 19 00-3824 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,743.49 467.31
40 05 19 00-3825 EA 16" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 6,283.07 358.96
40 05 19 00-3826 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,287.40 392.44
40 05 19 00-3827 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,408.45 413.58
40 05 19 00-3828 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 6,529.06 481.40
40 05 19 00-3829 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,845.56 504.75
40 05 19 00-3830 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 6,981.76 526.33
40 05 19 00-3831 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 5,905.09 432.07
40 05 19 00-3832 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 6,953.29 453.21
40 05 19 00-3833 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 6,906.56 521.05
40 05 19 00-3834 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 6,527.07 544.39
40 05 19 00-3835 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 8,046.22 565.97
40 05 19 00-3836 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 8,476.96 656.26
40 05 19 00-3837 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 8,423.86 493.73
40 05 19 00-3838 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 8,560.03 514.88
40 05 19 00-3839 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 8,822.36 582.71
40 05 19 00-3840 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 9,121.43 606.05
40 05 19 00-3841 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 9,206.19 627.64
40 05 19 00-3842 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 10,869.76 717.92
40 05 19 00-3843 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 11,047.30 766.37
40 05 19 00-3844 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 9,733.54 533.38
40 05 19 00-3845 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 10,111.57 554.52
40 05 19 00-3846 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 10,407.50 622.35
40 05 19 00-3847 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 11,534.61 645.69
40 05 19 00-3848 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee 11,777.26 667.27



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3849	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	12,053.46	757.56
40 05 19 00-3850	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	15,565.02	806.02
40 05 19 00-3851	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	16,021.64	861.30
40 05 19 00-3852	EA	30" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,264.14	643.49
40 05 19 00-3853	EA	30" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,351.60	664.63
40 05 19 00-3854	EA	30" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,793.65	732.46
40 05 19 00-3855	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,829.02	755.80
40 05 19 00-3856	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,861.73	777.39
40 05 19 00-3857	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	19,998.52	867.68
40 05 19 00-3858	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	20,631.25	916.12
40 05 19 00-3859	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	21,636.06	1,039.44
40 05 19 00-3860	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	26,368.63	1,092.30
40 05 19 00-3861	EA	36" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,671.07	920.96
40 05 19 00-3862	EA	36" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	27,921.50	937.71
40 05 19 00-3863	EA	36" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,049.67	985.72
40 05 19 00-3864	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,248.00	1,004.65
40 05 19 00-3865	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,331.13	1,021.83
40 05 19 00-3866	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,538.75	1,085.69
40 05 19 00-3867	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	28,664.26	1,129.74
40 05 19 00-3868	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	29,027.80	1,222.23
40 05 19 00-3869	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	29,608.47	1,268.48
40 05 19 00-3870	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	38,286.73	1,455.67
40 05 19 00-3871	EA	42" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,042.07	887.93
40 05 19 00-3872	EA	42" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,136.91	909.52
40 05 19 00-3873	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,391.29	999.81
40 05 19 00-3874	EA	42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,525.16	1,048.25
40 05 19 00-3875	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	42,952.20	1,171.59
40 05 19 00-3876	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	43,514.32	1,224.44
40 05 19 00-3877	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	54,497.89	1,488.70
40 05 19 00-3878	EA	42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	69,560.80	1,627.44
40 05 19 00-3879	EA	48" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,466.68	1,031.08
40 05 19 00-3880	EA	48" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,499.38	1,052.66
40 05 19 00-3881	EA	48" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,814.23	1,142.96
40 05 19 00-3882	EA	48" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	56,887.63	1,191.40
40 05 19 00-3883	EA	48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,314.67	1,314.72
40 05 19 00-3884	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	57,818.01	1,367.58
40 05 19 00-3885	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee	59,059.89	1,631.85
40 05 19 00-3886 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-2073)				
40 05 19 00-3887	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,339.62	233.44
40 05 19 00-3888	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	1,891.32	287.17
40 05 19 00-3889	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	2,800.31	320.64
40 05 19 00-3890	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	4,190.38	416.66
40 05 19 00-3891	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	5,646.87	454.54
40 05 19 00-3892	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	6,364.04	488.89
40 05 19 00-3893	EA	16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	7,800.47	616.62
40 05 19 00-3894	EA	18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	9,427.11	704.71
40 05 19 00-3895	EA	20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	12,391.40	889.70
40 05 19 00-3896	EA	24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	17,832.36	982.19
40 05 19 00-3897	EA	30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	29,531.99	1,356.57
40 05 19 00-3898	EA	36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee With Base	42,044.66	1,554.77
40 05 19 00-3899 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-2073)				
40 05 19 00-3900	EA	4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,096.07	233.44
40 05 19 00-3901	EA	6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,595.71	287.17
40 05 19 00-3902	EA	8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	2,358.57	320.64
40 05 19 00-3903	EA	10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	3,108.72	416.66
40 05 19 00-3904	EA	12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	4,696.22	454.54
40 05 19 00-3905	EA	14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	6,285.10	488.89
40 05 19 00-3906 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-2073)				
40 05 19 00-3907	EA	4" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,409.26	321.53
40 05 19 00-3908	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,980.71	348.39
40 05 19 00-3909	EA	6" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,058.24	388.47
40 05 19 00-3910	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,555.42	354.11
40 05 19 00-3911	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,726.94	400.80
40 05 19 00-3912	EA	8" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,787.43	430.75
40 05 19 00-3913	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,355.63	382.31
40 05 19 00-3914	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,622.88	428.99
40 05 19 00-3915	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,913.48	458.94
40 05 19 00-3916	EA	10" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,709.52	566.41
40 05 19 00-3917	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,385.42	396.84
40 05 19 00-3918	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,553.57	443.53
40 05 19 00-3919	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,844.17	473.48

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-3920	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,690.59	580.95
40 05 19 00-3921	EA	12" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,339.57	613.10
40 05 19 00-3922	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,481.58	456.30
40 05 19 00-3923	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,772.18	486.25
40 05 19 00-3924	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,274.30	593.72
40 05 19 00-3925	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,766.42	625.88
40 05 19 00-3926	EA	14" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,054.34	656.26
40 05 19 00-3927	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,541.03	493.73
40 05 19 00-3928	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,878.65	523.68
40 05 19 00-3929	EA	16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,382.45	631.16
40 05 19 00-3930	EA	16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,921.61	663.31
40 05 19 00-3931	EA	16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,854.89	693.70
40 05 19 00-3932	EA	16" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,772.39	836.84
40 05 19 00-3933	EA	18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,874.87	533.38
40 05 19 00-3934	EA	18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,212.50	563.33
40 05 19 00-3935	EA	18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,618.86	670.80
40 05 19 00-3936	EA	18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,158.02	702.95
40 05 19 00-3937	EA	18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,277.34	733.34
40 05 19 00-3938	EA	18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,935.96	876.49
40 05 19 00-3939	EA	18" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,313.28	933.74
40 05 19 00-3940	EA	20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,841.04	595.04
40 05 19 00-3941	EA	20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,202.19	624.99
40 05 19 00-3942	EA	20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,574.96	732.46
40 05 19 00-3943	EA	20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,149.40	764.61
40 05 19 00-3944	EA	20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,302.94	795.00
40 05 19 00-3945	EA	20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,308.60	938.15
40 05 19 00-3946	EA	20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,709.44	995.40
40 05 19 00-3947	EA	20" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,727.07	1,180.40
40 05 19 00-3948	EA	24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,675.81	634.68
40 05 19 00-3949	EA	24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,934.49	664.63
40 05 19 00-3950	EA	24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,463.48	772.10
40 05 19 00-3951	EA	24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,827.97	804.26
40 05 19 00-3952	EA	24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,031.89	834.64
40 05 19 00-3953	EA	24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,616.60	977.78
40 05 19 00-3954	EA	24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	17,440.47	1,035.05
40 05 19 00-3955	EA	24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	18,299.57	1,151.99
40 05 19 00-3956	EA	24" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	19,975.78	1,286.10
40 05 19 00-3957	EA	30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,914.11	914.36
40 05 19 00-3958	EA	30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,015.58	944.75
40 05 19 00-3959	EA	30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,625.49	1,087.90
40 05 19 00-3960	EA	30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,828.13	1,145.15
40 05 19 00-3961	EA	30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	22,726.52	1,330.14
40 05 19 00-3962	EA	30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,309.87	1,396.21
40 05 19 00-3963	EA	30" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	32,817.64	1,814.63
40 05 19 00-3964	EA	36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,274.30	1,163.21
40 05 19 00-3965	EA	36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,313.67	1,189.20
40 05 19 00-3966	EA	36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,833.15	1,305.91
40 05 19 00-3967	EA	36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,024.09	1,358.78
40 05 19 00-3968	EA	36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,764.90	1,512.92
40 05 19 00-3969	EA	36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	31,756.92	1,572.39
40 05 19 00-3970	EA	36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	42,363.47	1,913.73
40 05 19 00-3971	EA	36" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	46,243.21	2,092.11
40 05 19 00-3972	EA	42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,563.08	1,220.03
40 05 19 00-3973	EA	42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,711.98	1,277.29
40 05 19 00-3974	EA	42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	44,566.67	1,462.28
40 05 19 00-3975	EA	42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	45,624.16	1,528.34
40 05 19 00-3976	EA	42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	58,757.71	1,946.77
40 05 19 00-3977	EA	42" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	79,935.23	2,164.78
40 05 19 00-3978	EA	48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	59,323.87	1,605.42
40 05 19 00-3979	EA	48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	60,381.34	1,671.48
40 05 19 00-3980	EA	48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	62,738.58	2,089.90

40 05 19 00-3981 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducers

(40 05 19 00-2073)

40 05 19 00-3982	EA	6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,001.70	165.60
40 05 19 00-3983	EA	8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,331.11	177.94
40 05 19 00-3984	EA	8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,415.56	198.20
40 05 19 00-3985	EA	10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,773.57	206.13
40 05 19 00-3986	EA	10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,767.31	226.39
40 05 19 00-3987	EA	10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	1,984.19	238.72
40 05 19 00-3988	EA	12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,261.51	221.11
40 05 19 00-3989	EA	12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,297.24	241.36
40 05 19 00-3990	EA	12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,458.69	253.69
40 05 19 00-3991	EA	12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,672.73	281.88
40 05 19 00-3992	EA	14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,781.17	253.69
40 05 19 00-3993	EA	14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	2,996.38	266.02
40 05 19 00-3994	EA	14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,207.04	294.21
40 05 19 00-3995	EA	14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,115.52	309.19
40 05 19 00-3996	EA	16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,303.15	291.13
40 05 19 00-3997	EA	16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer	3,150.52	303.46



Process Interconnections 40
Common Work Results For Process Interconnections 40 05
Ductile Iron Process Pipe 40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3998 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,403.18	331.65
40 05 19 00-3999 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,808.15	346.19
40 05 19 00-4000 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,282.67	358.96
40 05 19 00-4001 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	3,996.63	343.11
40 05 19 00-4002 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,284.55	371.30
40 05 19 00-4003 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,244.44	385.83
40 05 19 00-4004 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,764.31	398.60
40 05 19 00-4005 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,718.58	436.04
40 05 19 00-4006 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	4,869.40	404.77
40 05 19 00-4007 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,174.11	432.96
40 05 19 00-4008 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,051.70	447.50
40 05 19 00-4009 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,690.82	460.26
40 05 19 00-4010 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	5,356.20	497.70
40 05 19 00-4011 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,388.74	537.34
40 05 19 00-4012 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,048.15	472.59
40 05 19 00-4013 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,616.03	487.13
40 05 19 00-4014 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	7,776.48	499.91
40 05 19 00-4015 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	6,959.81	537.34
40 05 19 00-4016 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	8,168.72	576.98
40 05 19 00-4017 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	8,578.94	570.60
40 05 19 00-4018 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	11,656.53	647.45
40 05 19 00-4019 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,057.55	687.09
40 05 19 00-4020 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	12,827.86	748.76
40 05 19 00-4021 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	14,013.24	788.40
40 05 19 00-4022 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	16,503.24	706.92
40 05 19 00-4023 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	16,741.34	746.55
40 05 19 00-4024 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	17,778.71	808.21
40 05 19 00-4025 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	18,707.12	847.86
40 05 19 00-4026 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	21,245.55	957.97
40 05 19 00-4027 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	25,915.22	920.53
40 05 19 00-4028 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	28,969.29	1,030.64
40 05 19 00-4029 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	32,485.77	1,090.10
40 05 19 00-4030 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	34,318.48	1,063.68
40 05 19 00-4031 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	36,356.39	1,173.78
40 05 19 00-4032 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	40,354.90	1,233.25
40 05 19 00-4033 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer.....	44,915.95	1,305.91

40 05 19 00-4034

Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducers

(40 05 19 00-2073)

40 05 19 00-4035 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,070.56	165.60
40 05 19 00-4036 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,410.05	177.94
40 05 19 00-4037 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,536.50	198.20
40 05 19 00-4038 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,773.57	206.13
40 05 19 00-4039 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	1,851.29	226.39
40 05 19 00-4040 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,064.81	238.72
40 05 19 00-4041 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,261.51	221.11
40 05 19 00-4042 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,391.30	241.36
40 05 19 00-4043 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,556.10	253.69
40 05 19 00-4044 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,842.36	281.88
40 05 19 00-4045 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,781.17	253.69
40 05 19 00-4046 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	2,945.99	266.02
40 05 19 00-4047 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,183.53	294.21
40 05 19 00-4048 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,548.86	309.19
40 05 19 00-4049 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,303.15	291.13
40 05 19 00-4050 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,514.99	303.46
40 05 19 00-4051 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,804.60	331.65
40 05 19 00-4052 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,118.87	346.19
40 05 19 00-4053 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,282.67	358.96
40 05 19 00-4054 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	3,996.63	343.11
40 05 19 00-4055 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,284.55	371.30
40 05 19 00-4056 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,597.15	385.83
40 05 19 00-4057 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	4,764.31	398.60
40 05 19 00-4058 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,113.29	436.04
40 05 19 00-4059 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,131.41	404.77
40 05 19 00-4060 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,358.87	432.96
40 05 19 00-4061 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,565.66	447.50
40 05 19 00-4062 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	5,690.82	460.26
40 05 19 00-4063 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,113.70	497.70
40 05 19 00-4064 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	6,383.70	537.34
40 05 19 00-4065 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,237.22	444.40
40 05 19 00-4066 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,169.08	472.59
40 05 19 00-4067 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,296.91	487.13
40 05 19 00-4068 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,420.40	499.91
40 05 19 00-4069 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	7,844.96	537.34
40 05 19 00-4070 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,168.72	576.98
40 05 19 00-4071 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	8,578.94	570.60
40 05 19 00-4072 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,382.90	610.02
40 05 19 00-4073 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	13,406.67	647.45
40 05 19 00-4074 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,112.97	687.09
40 05 19 00-4075 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	12,827.86	748.76

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4076 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	14,013.24	788.40
40 05 19 00-4077 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	15,522.36	706.92
40 05 19 00-4078 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	16,163.56	746.55
40 05 19 00-4079 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	17,101.83	808.21
40 05 19 00-4080 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	18,648.33	847.86
40 05 19 00-4081 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	21,542.84	957.97
40 05 19 00-4082 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	25,915.22	920.53
40 05 19 00-4083 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	28,969.29	1,030.64
40 05 19 00-4084 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	32,485.77	1,090.10
40 05 19 00-4085 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	36,356.39	1,173.78
40 05 19 00-4086 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	40,354.90	1,233.25
40 05 19 00-4087 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer	44,915.95	1,305.91

40 05 19 00-4088 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-2073)

40 05 19 00-4089 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	494.90	57.26
40 05 19 00-4090 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	752.94	84.56
40 05 19 00-4091 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,005.39	100.42
40 05 19 00-4092 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,462.41	117.16
40 05 19 00-4093 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,938.20	137.42
40 05 19 00-4094 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	2,670.67	154.16
40 05 19 00-4095 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	3,226.39	176.18
40 05 19 00-4096 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	4,342.60	246.65
40 05 19 00-4097 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	5,830.10	308.31
40 05 19 00-4098 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	8,547.02	374.38
40 05 19 00-4099 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	12,389.32	436.04
40 05 19 00-4100 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	23,234.04	480.08
40 05 19 00-4101 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	33,314.51	528.54
40 05 19 00-4102 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	44,412.63	594.60

40 05 19 00-4103 Ductile Iron Bolt Packs (40 05 19)

Note: Labor installation is included with pipe fittings or valves.

40 05 19 00-4104 EA 4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	37.51	
Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	10.50	
For Hot Dip Galvanized, Add	15.00	
40 05 19 00-4105 EA 6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	57.88	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	16.21	
For Hot Dip Galvanized, Add	23.15	
40 05 19 00-4106 EA 8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	62.85	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	17.60	
For Hot Dip Galvanized, Add	25.14	
40 05 19 00-4107 EA 10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	141.17	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	39.53	
For Hot Dip Galvanized, Add	56.47	
40 05 19 00-4108 EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	142.41	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	39.87	
For Hot Dip Galvanized, Add	56.96	
40 05 19 00-4109 EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	159.55	
Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	44.67	
For Hot Dip Galvanized, Add	63.82	
40 05 19 00-4110 EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	268.23	
Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	75.10	
For Hot Dip Galvanized, Add	107.29	
40 05 19 00-4111 EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	389.66	
Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	109.10	
For Hot Dip Galvanized, Add	155.86	
40 05 19 00-4112 EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	492.00	
Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	137.76	
For Hot Dip Galvanized, Add	196.80	
40 05 19 00-4113 EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	703.96	
Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	197.11	
For Hot Dip Galvanized, Add	281.58	
40 05 19 00-4114 EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,112.37	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	311.46	
For Hot Dip Galvanized, Add	444.95	
40 05 19 00-4115 EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,586.82	
Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	444.31	
For Hot Dip Galvanized, Add	634.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4116 EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack..... Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut. For Zinc Plated, Add For Hot Dip Galvanized, Add	2,041.39 571.59 816.56	
40 05 19 00-4117 EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack..... Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut. For Zinc Plated, Add For Hot Dip Galvanized, Add	2,495.03 698.61 998.01	
40 05 19 00-4118 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15 (40 05 19) Note: Labor installation is included with pipe fittings or valves.		
40 05 19 00-4119 Full Face Flange Styrene Butadiene (SBR) Gaskets (40 05 19 00-4118)		
40 05 19 00-4120 EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	8.24	
40 05 19 00-4121 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	10.48	
40 05 19 00-4122 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	14.23	
40 05 19 00-4123 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	16.47	
40 05 19 00-4124 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	17.97	
40 05 19 00-4125 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	29.95	
40 05 19 00-4126 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	36.69	
40 05 19 00-4127 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	38.94	
40 05 19 00-4128 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	59.90	
40 05 19 00-4129 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	64.39	
40 05 19 00-4130 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	83.11	
40 05 19 00-4131 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	95.09	
40 05 19 00-4132 EA 42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	101.83	
40 05 19 00-4133 EA 48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	111.56	
40 05 19 00-4134 Full Face Flange Nitrile Buna-N (NBR) Gaskets (40 05 19 00-4118) Note: (Acrylonitrile Butadiene)		
40 05 19 00-4135 EA 4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	25.46	
40 05 19 00-4136 EA 6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	35.94	
40 05 19 00-4137 EA 8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	55.41	
40 05 19 00-4138 EA 10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	60.65	
40 05 19 00-4139 EA 12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	65.14	
40 05 19 00-4140 EA 14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	122.80	
40 05 19 00-4141 EA 16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	151.25	
40 05 19 00-4142 EA 18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	152.00	
40 05 19 00-4143 EA 20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	157.99	
40 05 19 00-4144 EA 24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	166.97	
40 05 19 00-4145 EA 30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	184.94	
40 05 19 00-4146 EA 36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	203.66	
40 05 19 00-4147 EA 42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	289.77	
40 05 19 00-4148 EA 48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	316.72	
40 05 19 00-4149 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets (40 05 19 00-4118)		
40 05 19 00-4150 EA 4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	22.46	
40 05 19 00-4151 EA 6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	29.20	
40 05 19 00-4152 EA 8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	39.68	
40 05 19 00-4153 EA 10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	46.42	
40 05 19 00-4154 EA 12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	51.66	
40 05 19 00-4155 EA 14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	85.36	
40 05 19 00-4156 EA 16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	102.58	
40 05 19 00-4157 EA 18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	103.33	
40 05 19 00-4158 EA 20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	105.57	
40 05 19 00-4159 EA 24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	122.80	
40 05 19 00-4160 EA 30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	150.50	
40 05 19 00-4161 EA 36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	171.46	
40 05 19 00-4162 EA 42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	245.59	
40 05 19 00-4163 EA 48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	271.05	
40 05 19 00-4164 Full Face Flange Neoprene Gaskets (40 05 19 00-4118) Note: (Polychloroprene)		
40 05 19 00-4165 EA 4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	26.21	
40 05 19 00-4166 EA 6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	36.69	
40 05 19 00-4167 EA 8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	56.16	
40 05 19 00-4168 EA 10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	60.65	
40 05 19 00-4169 EA 12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	65.14	
40 05 19 00-4170 EA 14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	86.86	
40 05 19 00-4171 EA 16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	152.74	
40 05 19 00-4172 EA 18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	153.49	
40 05 19 00-4173 EA 20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	162.48	
40 05 19 00-4174 EA 24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	164.72	
40 05 19 00-4175 EA 30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	178.95	
40 05 19 00-4176 EA 36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	201.41	
40 05 19 00-4177 EA 42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	292.01	
40 05 19 00-4178 EA 48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	319.72	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

40 05 19 00-4179 Full Face Flange FKM Gaskets (40 05 19 00-4118)

Note: (Fluoroelastomer Fluorel Viton®)

40 05 19 00-4180	EA	4" Full Face Flange FKM Gasket, 1/8" Thick	141.16	
40 05 19 00-4181	EA	6" Full Face Flange FKM Gasket, 1/8" Thick	210.18	
40 05 19 00-4182	EA	8" Full Face Flange FKM Gasket, 1/8" Thick	280.76	
40 05 19 00-4183	EA	10" Full Face Flange FKM Gasket, 1/8" Thick	338.80	
40 05 19 00-4184	EA	12" Full Face Flange FKM Gasket, 1/8" Thick	440.75	
40 05 19 00-4185	EA	14" Full Face Flange FKM Gasket, 1/8" Thick	806.21	
40 05 19 00-4186	EA	16" Full Face Flange FKM Gasket, 1/8" Thick	923.85	
40 05 19 00-4187	EA	18" Full Face Flange FKM Gasket, 1/8" Thick	967.76	
40 05 19 00-4188	EA	20" Full Face Flange FKM Gasket, 1/8" Thick	1,032.07	
40 05 19 00-4189	EA	24" Full Face Flange FKM Gasket, 1/8" Thick	1,427.34	
40 05 19 00-4190	EA	30" Full Face Flange FKM Gasket, 1/8" Thick	1,711.23	
40 05 19 00-4191	EA	36" Full Face Flange FKM Gasket, 1/8" Thick	1,805.34	
40 05 19 00-4192	EA	42" Full Face Flange FKM Gasket, 1/8" Thick	2,250.80	
40 05 19 00-4193	EA	48" Full Face Flange FKM Gasket, 1/8" Thick	2,359.02	

40 05 19 00-4194 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)

40 05 19 00-4195	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	417.45	78.58
40 05 19 00-4196	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	579.28	95.93
40 05 19 00-4197	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	857.84	117.00
40 05 19 00-4198	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,178.46	142.73
40 05 19 00-4199	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	1,496.23	174.05
40 05 19 00-4200	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	2,404.86	212.35
40 05 19 00-4201	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,783.13	259.15
40 05 19 00-4202	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	3,905.47	316.07
40 05 19 00-4203	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	4,784.85	385.69
40 05 19 00-4204	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	5,330.68	470.44
40 05 19 00-4205	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	6,870.61	574.06
40 05 19 00-4206	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	10,216.39	700.25
40 05 19 00-4207	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	26,648.28	854.39
40 05 19 00-4208	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100)	34,039.11	1,042.29

40 05 23 Stainless Steel Process Pipe and Tubing (40 05)**40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)****40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 Lb. Screwed Fittings Assembly (40 05 23)**

23)

Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.

40 05 23 23-0002	LF	1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	32.47	10.67
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	2.87	
		For Work In Restricted Working Space, Add	6.43	
40 05 23 23-0003	LF	3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	37.02	12.23
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	3.01	
		For Work In Restricted Working Space, Add	7.64	
40 05 23 23-0004	LF	1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	43.10	13.80
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	3.52	
		For Work In Restricted Working Space, Add	8.87	
40 05 23 23-0005	LF	1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	48.92	16.65
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	4.45	
		For Work In Restricted Working Space, Add	9.55	
40 05 23 23-0006	LF	1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	53.70	17.14
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	5.09	
		For Work In Restricted Working Space, Add	10.23	
40 05 23 23-0007	LF	2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	64.98	22.65
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	6.21	
		For Work In Restricted Working Space, Add	12.33	
40 05 23 23-0008	LF	2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	91.98	27.92
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	10.68	
		For Work In Restricted Working Space, Add	15.27	
40 05 23 23-0009	LF	3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	115.77	32.36
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Type 316, Add	13.91	
		For Work In Restricted Working Space, Add	18.68	
40 05 23 23-0010	LF	4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 Lb. Screwed Fitting Assembly	156.04	32.36
		Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
		For Work In Restricted Working Space, Add	23.71	

40 05 23 23-0011 Stainless Steel Tubing And Fittings (40 05 23 23)**40 05 23 23-0012 Type 304 Tubing (40 05 23 23-0011)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0013 0.035" Wall (40 05 23 23-0012)		
40 05 23 23-0014 LF 1/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	9.09	3.51
For Work In Restricted Working Space, Add	2.09	
40 05 23 23-0015 LF 3/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	10.58	4.17
For Work In Restricted Working Space, Add	2.51	
40 05 23 23-0016 LF 1/2", 0.035" Wall, Type 304, Stainless Steel Tubing.....	12.60	4.95
For Work In Restricted Working Space, Add	2.93	
40 05 23 23-0017 LF 5/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	19.77	5.59
For Work In Restricted Working Space, Add	3.35	
40 05 23 23-0018 LF 3/4", 0.035" Wall, Type 304, Stainless Steel Tubing.....	23.33	6.25
For Work In Restricted Working Space, Add	3.77	
40 05 23 23-0019 LF 7/8", 0.035" Wall, Type 304, Stainless Steel Tubing.....	25.83	7.03
For Work In Restricted Working Space, Add	4.20	
40 05 23 23-0020 LF 1", 0.035" Wall, Type 304, Stainless Steel Tubing.....	29.05	8.46
For Work In Restricted Working Space, Add	5.04	
40 05 23 23-0021 0.049" Wall (40 05 23 23-0012)		
40 05 23 23-0022 LF 1/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	14.61	4.17
For Work In Restricted Working Space, Add	2.51	
40 05 23 23-0023 LF 3/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	16.35	4.95
For Work In Restricted Working Space, Add	2.93	
40 05 23 23-0024 LF 1/2", 0.049" Wall, Type 304, Stainless Steel Tubing.....	19.58	5.59
For Work In Restricted Working Space, Add	3.35	
40 05 23 23-0025 LF 5/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	24.75	7.03
For Work In Restricted Working Space, Add	4.20	
40 05 23 23-0026 LF 3/4", 0.049" Wall, Type 304, Stainless Steel Tubing.....	28.44	8.46
For Work In Restricted Working Space, Add	5.04	
40 05 23 23-0027 LF 7/8", 0.049" Wall, Type 304, Stainless Steel Tubing.....	32.06	9.76
For Work In Restricted Working Space, Add	5.87	
40 05 23 23-0028 LF 1", 0.049" Wall, Type 304, Stainless Steel Tubing.....	36.95	11.07
For Work In Restricted Working Space, Add	6.68	
40 05 23 23-0029 0.065" Wall (40 05 23 23-0012)		
40 05 23 23-0030 LF 1/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	17.06	4.95
For Work In Restricted Working Space, Add	2.93	
40 05 23 23-0031 LF 3/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	19.63	5.59
For Work In Restricted Working Space, Add	3.35	
40 05 23 23-0032 LF 1/2", 0.065" Wall, Type 304, Stainless Steel Tubing.....	24.23	7.03
For Work In Restricted Working Space, Add	4.20	
40 05 23 23-0033 LF 5/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	28.53	8.46
For Work In Restricted Working Space, Add	5.04	
40 05 23 23-0034 LF 3/4", 0.065" Wall, Type 304, Stainless Steel Tubing.....	33.61	9.76
For Work In Restricted Working Space, Add	5.87	
40 05 23 23-0035 LF 7/8", 0.065" Wall, Type 304, Stainless Steel Tubing.....	38.59	11.07
For Work In Restricted Working Space, Add	6.68	
40 05 23 23-0036 LF 1", 0.065" Wall, Type 304, Stainless Steel Tubing.....	43.48	12.50
For Work In Restricted Working Space, Add	7.51	
40 05 23 23-0037 Type 304 Tube Fittings (40 05 23 23-0011)		
40 05 23 23-0038 90 Degree Elbows (40 05 23 23-0037)		
40 05 23 23-0039 EA 1/4", Type 304, Stainless Steel, 90 Degree Elbow	54.54	14.06
For Work In Restricted Working Space, Add	8.40	
40 05 23 23-0040 EA 3/8", Type 304, Stainless Steel, 90 Degree Elbow	64.10	15.36
For Work In Restricted Working Space, Add	9.19	
40 05 23 23-0041 EA 1/2", Type 304, Stainless Steel, 90 Degree Elbow	94.73	17.32
For Work In Restricted Working Space, Add	10.42	
40 05 23 23-0042 EA 5/8", Type 304, Stainless Steel, 90 Degree Elbow	101.47	19.40
For Work In Restricted Working Space, Add	11.66	
40 05 23 23-0043 EA 3/4", Type 304, Stainless Steel, 90 Degree Elbow	113.26	20.96
For Work In Restricted Working Space, Add	12.60	
40 05 23 23-0044 EA 7/8", Type 304, Stainless Steel, 90 Degree Elbow	152.95	23.31
For Work In Restricted Working Space, Add	13.95	
40 05 23 23-0045 EA 1", Type 304, Stainless Steel, 90 Degree Elbow	194.16	27.73
For Work In Restricted Working Space, Add	16.62	
40 05 23 23-0046 Union Tees (40 05 23 23-0037)		
40 05 23 23-0047 EA 1/4", Type 304, Stainless Steel, Union Tee	86.14	20.96
For Work In Restricted Working Space, Add	12.60	
40 05 23 23-0048 EA 3/8", Type 304, Stainless Steel, Union Tee	103.76	23.31
For Work In Restricted Working Space, Add	13.95	
40 05 23 23-0049 EA 1/2", Type 304, Stainless Steel, Union Tee	139.91	26.04
For Work In Restricted Working Space, Add	15.62	
40 05 23 23-0050 EA 5/8", Type 304, Stainless Steel, Union Tee	151.05	29.56
For Work In Restricted Working Space, Add	17.75	
40 05 23 23-0051 EA 3/4", Type 304, Stainless Steel, Union Tee	191.01	31.77
For Work In Restricted Working Space, Add	19.05	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0052 EA 7/8", Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	298.56 21.11	35.15
40 05 23 23-0053 EA 1", Type 304, Stainless Steel, Union Tee <i>For Work In Restricted Working Space, Add</i>	357.76 25.20	42.05
40 05 23 23-0054 Unions (40 05 23 23-0037)		
40 05 23 23-0055 EA 1/4", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	82.62 12.60	20.96
40 05 23 23-0056 EA 3/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	105.74 13.95	23.31
40 05 23 23-0057 EA 1/2", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	141.21 15.62	26.04
40 05 23 23-0058 EA 5/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	171.45 17.75	29.56
40 05 23 23-0059 EA 3/4", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	203.42 19.05	31.77
40 05 23 23-0060 EA 7/8", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	308.47 21.11	35.15
40 05 23 23-0061 EA 1", Type 304, Stainless Steel, Union..... <i>For Work In Restricted Working Space, Add</i>	329.70 25.20	42.05
40 05 23 23-0062 Male Connectors (40 05 23 23-0037)		
40 05 23 23-0063 EA 1/4" x 1/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	41.97 8.40	14.06
40 05 23 23-0064 EA 3/8" x 3/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	51.74 9.19	15.36
40 05 23 23-0065 EA 1/2" x 1/2", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	66.30 10.42	17.32
40 05 23 23-0066 EA 5/8" x 5/8" Male Connection, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	74.67 11.66	19.40
40 05 23 23-0067 EA 3/4" x 3/4", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	89.44 12.60	20.96
40 05 23 23-0068 EA 7/8" x 7/8", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	132.06 13.95	23.31
40 05 23 23-0069 EA 1" x 1", Type 304, Stainless Steel, Male Connection <i>For Work In Restricted Working Space, Add</i>	139.36 16.62	27.73
40 05 23 23-0070 Type 304 Valves (40 05 23 23-0011)		
40 05 23 23-0071 Gate Valves (40 05 23 23-0070)		
40 05 23 23-0072 EA 1/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	235.27 11.37	20.96
40 05 23 23-0073 EA 3/8" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	395.78 11.97	24.61
40 05 23 23-0074 EA 1/2" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	411.27 16.62	27.73
40 05 23 23-0075 EA 3/4" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	455.96 19.05	31.77
40 05 23 23-0076 EA 1" Gate Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	419.27 25.20	42.05
40 05 23 23-0077 Globe Valves (40 05 23 23-0070)		
40 05 23 23-0078 EA 1/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	238.50 11.37	20.96
40 05 23 23-0079 EA 3/8" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	157.97 11.97	24.61
40 05 23 23-0080 EA 1/2" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	283.36 16.62	27.73
40 05 23 23-0081 EA 3/4" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	315.48 19.05	31.77
40 05 23 23-0082 EA 1" Globe Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	459.98 25.20	42.05
40 05 23 23-0083 Check Valves (40 05 23 23-0070)		
40 05 23 23-0084 EA 1/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	333.53 11.37	20.96
40 05 23 23-0085 EA 3/8" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	335.53 11.97	24.61
40 05 23 23-0086 EA 1/2" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	220.64 16.62	27.73
40 05 23 23-0087 EA 3/4" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	231.14 19.05	31.77
40 05 23 23-0088 EA 1" Check Valve, Stainless Steel Type 304 <i>For Work In Restricted Working Space, Add</i>	256.42 25.20	42.05
40 05 23 23-0089 Plug Valves (40 05 23 23-0070)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	515.79 16.62	27.73
40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	564.81 19.05	31.77
40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	639.86 25.20	42.05
40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	888.10 28.51	47.52
40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304..... For Work In Restricted Working Space, Add	1,156.66 39.06	65.09
40 05 23 23-0095 Type 316 Tubing (40 05 23 23-0011)		
40 05 23 23-0096 0.035" Wall (40 05 23 23-0095)		
40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	9.41 2.09	3.51
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	12.15 2.51	4.17
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	13.56 2.93	4.95
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	22.31 3.35	5.59
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	25.30 3.77	6.25
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	31.88 4.20	7.03
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall..... For Work In Restricted Working Space, Add	33.74 5.04	8.46
40 05 23 23-0104 0.049" Wall (40 05 23 23-0095)		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	15.97 2.51	4.17
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	17.78 2.93	4.95
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	20.92 3.35	5.59
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	27.21 4.20	7.03
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	31.50 5.04	8.46
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	39.94 5.87	9.76
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall..... For Work In Restricted Working Space, Add	41.09 6.68	11.07
40 05 23 23-0112 0.065" Wall (40 05 23 23-0095)		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	18.67 2.93	4.95
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	20.87 3.35	5.59
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	26.17 4.20	7.03
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	31.20 5.04	8.46
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	37.71 5.87	9.76
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	41.63 6.68	11.07
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... For Work In Restricted Working Space, Add	48.38 7.51	12.50
40 05 23 23-0120 Type 316 Tube Fittings (40 05 23 23-0011)		
40 05 23 23-0121 90 Degree Elbows (40 05 23 23-0120)		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	73.70 8.40	14.06
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	88.27 9.19	15.36
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	138.05 10.42	17.32
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	146.67 11.66	19.40
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	164.70 12.60	20.96
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	229.81 13.95	23.31
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316..... For Work In Restricted Working Space, Add	294.34 16.62	27.73

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 23 23-0129 Union Tees (40 05 23 23-0120)				
40 05 23 23-0130	EA	1/4" Union Tee, Stainless Steel Type 316	118.01	20.96
		<i>For Work In Restricted Working Space, Add</i>	12.60	
40 05 23 23-0131	EA	3/8" Union Tee, Stainless Steel Type 316	145.11	23.31
		<i>For Work In Restricted Working Space, Add</i>	13.95	
40 05 23 23-0132	EA	1/2" Union Tee, Stainless Steel Type 316	203.34	26.04
		<i>For Work In Restricted Working Space, Add</i>	15.62	
40 05 23 23-0133	EA	5/8" Union Tee, Stainless Steel Type 316	217.39	29.56
		<i>For Work In Restricted Working Space, Add</i>	17.75	
40 05 23 23-0134	EA	3/4" Union Tee, Stainless Steel Type 316	283.07	31.77
		<i>For Work In Restricted Working Space, Add</i>	19.05	
40 05 23 23-0135	EA	7/8" Union Tee, Stainless Steel Type 316	463.31	35.15
		<i>For Work In Restricted Working Space, Add</i>	21.11	
40 05 23 23-0136	EA	1" Union Tee, Stainless Steel Type 316	555.42	42.05
		<i>For Work In Restricted Working Space, Add</i>	25.20	
40 05 23 23-0137 Unions (40 05 23 23-0120)				
40 05 23 23-0138	EA	1/4" Union, Stainless Steel Type 316	77.77	20.96
		<i>For Work In Restricted Working Space, Add</i>	12.60	
40 05 23 23-0139	EA	3/8" Union, Stainless Steel Type 316	98.66	23.31
		<i>For Work In Restricted Working Space, Add</i>	13.95	
40 05 23 23-0140	EA	1/2" Union, Stainless Steel Type 316	130.56	26.04
		<i>For Work In Restricted Working Space, Add</i>	15.62	
40 05 23 23-0141	EA	5/8" Union, Stainless Steel Type 316	158.03	29.56
		<i>For Work In Restricted Working Space, Add</i>	17.75	
40 05 23 23-0142	EA	3/4" Union, Stainless Steel Type 316	186.70	31.77
		<i>For Work In Restricted Working Space, Add</i>	19.05	
40 05 23 23-0143	EA	7/8" Union, Stainless Steel Type 316	280.01	35.15
		<i>For Work In Restricted Working Space, Add</i>	21.11	
40 05 23 23-0144	EA	1" Union, Stainless Steel Type 316	300.33	42.05
		<i>For Work In Restricted Working Space, Add</i>	25.20	
40 05 23 23-0145 Male Connectors (40 05 23 23-0120)				
40 05 23 23-0146	EA	1/4" x 1/4" Male Connector, Stainless Steel Type 316	51.84	14.06
		<i>For Work In Restricted Working Space, Add</i>	8.40	
40 05 23 23-0147	EA	3/8" x 3/8" Male Connector, Stainless Steel Type 316	66.66	15.36
		<i>For Work In Restricted Working Space, Add</i>	9.19	
40 05 23 23-0148	EA	1/2" x 1/2" Male Connector, Stainless Steel Type 316	88.62	17.32
		<i>For Work In Restricted Working Space, Add</i>	10.42	
40 05 23 23-0149	EA	5/8" x 5/8" Male Connector, Stainless Steel Type 316	99.97	19.40
		<i>For Work In Restricted Working Space, Add</i>	11.66	
40 05 23 23-0150	EA	3/4" x 3/4" Male Connector, Stainless Steel Type 316	122.97	20.96
		<i>For Work In Restricted Working Space, Add</i>	12.60	
40 05 23 23-0151	EA	7/8" x 7/8" Male Connector, Stainless Steel Type 316	192.55	23.31
		<i>For Work In Restricted Working Space, Add</i>	13.95	
40 05 23 23-0152	EA	1" x 1" Male Connector, Stainless Steel Type 316	198.72	27.73
		<i>For Work In Restricted Working Space, Add</i>	16.62	
40 05 23 23-0153 Type 316 Valves (40 05 23 23-0011)				
40 05 23 23-0154 Gate Valves (40 05 23 23-0153)				
40 05 23 23-0155	EA	1/4" Gate Valve, Stainless Steel Type 316	298.99	20.96
		<i>For Work In Restricted Working Space, Add</i>	11.37	
40 05 23 23-0156	EA	3/8" Gate Valve, Stainless Steel Type 316	510.68	24.61
		<i>For Work In Restricted Working Space, Add</i>	11.97	
40 05 23 23-0157	EA	1/2" Gate Valve, Stainless Steel Type 316	526.17	27.73
		<i>For Work In Restricted Working Space, Add</i>	16.62	
40 05 23 23-0158	EA	3/4" Gate Valve, Stainless Steel Type 316	582.68	31.77
		<i>For Work In Restricted Working Space, Add</i>	19.05	
40 05 23 23-0159	EA	1" Gate Valve, Stainless Steel Type 316	527.52	42.05
		<i>For Work In Restricted Working Space, Add</i>	25.20	
40 05 23 23-0160	EA	1-1/4" Gate Valve, Stainless Steel Type 316	724.66	43.61
		<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0161	EA	1-1/2" Gate Valve, Stainless Steel Type 316	1,164.25	47.52
		<i>For Work In Restricted Working Space, Add</i>	28.51	
40 05 23 23-0162	EA	2" Gate Valve, Stainless Steel Type 316	1,384.74	65.09
		<i>For Work In Restricted Working Space, Add</i>	39.06	
40 05 23 23-0163	EA	2-1/2" Gate Valve, Stainless Steel Type 316	2,056.20	208.42
		<i>For Work In Restricted Working Space, Add</i>	125.02	
40 05 23 23-0164 Globe Valves (40 05 23 23-0153)				
40 05 23 23-0165	EA	1/4" Globe Valve, Stainless Steel Type 316	303.27	20.96
		<i>For Work In Restricted Working Space, Add</i>	11.37	
40 05 23 23-0166	EA	3/8" Globe Valve, Stainless Steel Type 316	196.10	24.61
		<i>For Work In Restricted Working Space, Add</i>	11.97	
40 05 23 23-0167	EA	1/2" Globe Valve, Stainless Steel Type 316	356.97	27.73
		<i>For Work In Restricted Working Space, Add</i>	16.62	
40 05 23 23-0168	EA	3/4" Globe Valve, Stainless Steel Type 316	396.84	31.77
		<i>For Work In Restricted Working Space, Add</i>	19.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0169	EA		1" Globe Valve, Stainless Steel Type 316	581.37	42.05
			<i>For Work In Restricted Working Space, Add</i>	25.20	
40 05 23 23-0170	EA		1-1/4" Globe Valve, Stainless Steel Type 316	726.08	43.35
			<i>For Work In Restricted Working Space, Add</i>	25.97	
40 05 23 23-0171	EA		1-1/2" Globe Valve, Stainless Steel Type 316	1,207.02	47.52
			<i>For Work In Restricted Working Space, Add</i>	28.51	
40 05 23 23-0172	EA		2" Globe Valve, Stainless Steel Type 316	1,427.51	65.09
			<i>For Work In Restricted Working Space, Add</i>	39.06	
40 05 23 23-0173	EA		2-1/2" Globe Valve, Stainless Steel Type 316	1,785.33	208.42
			<i>For Work In Restricted Working Space, Add</i>	125.02	
40 05 23 23-0174 Check Valves (40 05 23 23-0153)					
40 05 23 23-0175	EA		1/4" Check Valve, Stainless Steel Type 316	428.97	20.96
			<i>For Work In Restricted Working Space, Add</i>	11.37	
40 05 23 23-0176	EA		3/8" Check Valve, Stainless Steel Type 316	430.97	24.61
			<i>For Work In Restricted Working Space, Add</i>	11.97	
40 05 23 23-0177	EA		1/2" Check Valve, Stainless Steel Type 316	274.00	27.73
			<i>For Work In Restricted Working Space, Add</i>	16.62	
40 05 23 23-0178	EA		3/4" Check Valve, Stainless Steel Type 316	285.26	31.77
			<i>For Work In Restricted Working Space, Add</i>	19.05	
40 05 23 23-0179	EA		1" Check Valve, Stainless Steel Type 316	312.09	42.05
			<i>For Work In Restricted Working Space, Add</i>	25.20	
40 05 23 23-0180	EA		1-1/4" Check Valve, Stainless Steel Type 316	431.94	43.61
			<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0181	EA		1-1/2" Check Valve, Stainless Steel Type 316	964.66	47.52
			<i>For Work In Restricted Working Space, Add</i>	28.51	
40 05 23 23-0182	EA		2" Check Valve, Stainless Steel Type 316	1,170.90	65.09
			<i>For Work In Restricted Working Space, Add</i>	39.06	
40 05 23 23-0183	EA		2-1/2" Check Valve, Stainless Steel Type 316	2,317.56	208.42
			<i>For Work In Restricted Working Space, Add</i>	125.02	
40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined (40 05 23 23-0153)					
40 05 23 23-0185	EA		1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	460.68	27.73
			<i>For Work In Restricted Working Space, Add</i>	16.62	
40 05 23 23-0186	EA		3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	538.17	31.77
			<i>For Work In Restricted Working Space, Add</i>	19.05	
40 05 23 23-0187	EA		1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	686.35	42.05
			<i>For Work In Restricted Working Space, Add</i>	25.20	
40 05 23 23-0188	EA		1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,094.34	47.52
			<i>For Work In Restricted Working Space, Add</i>	28.51	
40 05 23 23-0189	EA		2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined	1,529.23	65.09
			<i>For Work In Restricted Working Space, Add</i>	39.06	
40 05 23 23-0190 Diaphragm Valves, Teflon Lined (40 05 23 23-0153)					
40 05 23 23-0191	EA		1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	610.57	27.73
			<i>For Work In Restricted Working Space, Add</i>	16.62	
40 05 23 23-0192	EA		3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	701.95	31.77
			<i>For Work In Restricted Working Space, Add</i>	19.05	
40 05 23 23-0193	EA		1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	850.13	42.05
			<i>For Work In Restricted Working Space, Add</i>	25.20	
40 05 23 23-0194	EA		1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	1,324.73	47.52
			<i>For Work In Restricted Working Space, Add</i>	28.51	
40 05 23 23-0195	EA		2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined	1,804.03	65.09
			<i>For Work In Restricted Working Space, Add</i>	39.06	
40 05 23 23-0196 Strainers (40 05 23 23-0153)					
40 05 23 23-0197	EA		1/2" Strainer, Stainless Steel Type 316	612.02	27.73
			<i>For Work In Restricted Working Space, Add</i>	16.62	
40 05 23 23-0198	EA		3/4" Strainer, Stainless Steel Type 316	732.49	31.90
			<i>For Work In Restricted Working Space, Add</i>	19.14	
40 05 23 23-0199	EA		1" Strainer, Stainless Steel Type 316	958.37	42.31
			<i>For Work In Restricted Working Space, Add</i>	25.39	
40 05 23 23-0200	EA		1-1/4" Strainer, Stainless Steel Type 316	1,190.39	43.61
			<i>For Work In Restricted Working Space, Add</i>	26.17	
40 05 23 23-0201	EA		1-1/2" Strainer, Stainless Steel Type 316	1,494.43	47.52
			<i>For Work In Restricted Working Space, Add</i>	28.51	
40 05 23 23-0202	EA		2" Strainer, Stainless Steel Type 316	2,155.31	65.09
			<i>For Work In Restricted Working Space, Add</i>	39.06	
40 05 23 23-0203	EA		2-1/2" Strainer, Stainless Steel Type 316	2,962.10	86.58
			<i>For Work In Restricted Working Space, Add</i>	51.95	
40 05 23 23-0204	EA		3" Strainer, Stainless Steel Type 316	4,313.47	130.19
			<i>For Work In Restricted Working Space, Add</i>	78.11	
40 05 23 23-0205	EA		4" Strainer, Stainless Steel Type 316	5,519.57	208.29
			<i>For Work In Restricted Working Space, Add</i>	124.97	
40 05 23 23-0206 Plug Valves (40 05 23 23-0153)					

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0207 EA 1/2" Plug Valve, Stainless Steel Type 316.....	652.25	27.73
For Work In Restricted Working Space, Add	16.62	
40 05 23 23-0208 EA 3/4" Plug Valve, Stainless Steel Type 316.....	713.40	31.77
For Work In Restricted Working Space, Add	19.05	
40 05 23 23-0209 EA 1" Plug Valve, Stainless Steel Type 316.....	804.63	42.05
For Work In Restricted Working Space, Add	25.20	
40 05 23 23-0210 EA 1-1/2" Plug Valve, Stainless Steel Type 316.....	1,123.18	47.52
For Work In Restricted Working Space, Add	28.51	
40 05 23 23-0211 EA 2" Plug Valve, Stainless Steel Type 316.....	1,460.92	65.09
For Work In Restricted Working Space, Add	39.06	
40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place (40 05 23 23-0011)		
Note: For use when connecting pipe to an existing in-place system.		
40 05 23 23-0213 EA Cut And Prepare 1/2" Stainless Steel Pipe.....	26.03	
40 05 23 23-0214 EA Cut And Prepare 3/4" Stainless Steel Pipe.....	28.11	
40 05 23 23-0215 EA Cut And Prepare 1" Stainless Steel Pipe.....	31.62	
40 05 23 23-0216 EA Cut And Prepare 1-1/4" Stainless Steel Pipe.....	33.18	
40 05 23 23-0217 EA Cut And Prepare 1-1/2" Stainless Steel Pipe.....	35.13	
40 05 23 23-0218 EA Cut And Prepare 2" Stainless Steel Pipe.....	37.72	
40 05 23 23-0219 EA Cut And Prepare 2-1/2" Stainless Steel Pipe.....	40.34	
40 05 23 23-0220 EA Cut And Prepare 3" Stainless Steel Pipe.....	44.23	
40 05 23 23-0221 EA Cut And Prepare 4" Stainless Steel Pipe.....	48.14	
40 05 23 23-0222 EA Cut And Prepare 6" Stainless Steel Pipe.....	52.05	
40 05 23 23-0223 EA Cut And Prepare 8" Stainless Steel Pipe.....	55.95	
40 05 23 23-0224 EA Cut And Prepare 10" Stainless Steel Pipe.....	61.16	
40 05 23 23-0225 EA Cut And Prepare 12" Stainless Steel Pipe.....	66.36	
40 05 23 23-0226 EA Cut And Prepare 14" Stainless Steel Pipe.....	71.56	
40 05 23 23-0227 EA Cut And Prepare 16" Stainless Steel Pipe.....	76.76	
40 05 23 23-0228 EA Cut And Prepare 18" Stainless Steel Pipe.....	80.68	
40 05 23 23-0229 EA Cut And Prepare 20" Stainless Steel Pipe.....	84.57	
40 05 23 23-0230 EA Cut And Prepare 24" Stainless Steel Pipe.....	89.78	
40 05 23 23-0231 Stainless Steel Pipe And Fittings (40 05 23 23)		
40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings		
(40 05 23 23-0231)		
40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0232)		
40 05 23 23-0234 LF 1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	16.61	5.59
For Work In Restricted Working Space, Add	3.35	
40 05 23 23-0235 LF 3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	20.52	7.03
For Work In Restricted Working Space, Add	4.20	
40 05 23 23-0236 LF 1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	25.09	8.46
For Work In Restricted Working Space, Add	5.04	
40 05 23 23-0237 LF 1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	29.94	9.76
For Work In Restricted Working Space, Add	5.87	
40 05 23 23-0238 LF 1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	34.51	11.07
For Work In Restricted Working Space, Add	6.68	
40 05 23 23-0239 LF 2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	43.94	14.06
For Work In Restricted Working Space, Add	8.40	
40 05 23 23-0240 LF 2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	57.98	16.66
For Work In Restricted Working Space, Add	10.01	
40 05 23 23-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	72.90	20.96
For Work In Restricted Working Space, Add	12.60	
40 05 23 23-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 Lb. Threaded Fitting.....	98.18	27.73
For Work In Restricted Working Space, Add	16.62	
40 05 23 23-0243 150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)		
40 05 23 23-0244 EA 1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	45.33	20.96
For Work In Restricted Working Space, Add	12.60	
40 05 23 23-0245 EA 3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	60.16	27.73
For Work In Restricted Working Space, Add	16.62	
40 05 23 23-0246 EA 1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	77.31	35.15
For Work In Restricted Working Space, Add	21.11	
40 05 23 23-0247 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	108.28	48.17
For Work In Restricted Working Space, Add	28.93	
40 05 23 23-0248 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	128.98	56.63
For Work In Restricted Working Space, Add	33.96	
40 05 23 23-0249 EA 2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	157.06	68.48
For Work In Restricted Working Space, Add	41.11	
40 05 23 23-0250 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	262.60	108.45
For Work In Restricted Working Space, Add	65.09	
40 05 23 23-0251 EA 3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	338.08	139.95
For Work In Restricted Working Space, Add	83.99	
40 05 23 23-0252 EA 4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow.....	460.55	173.54
For Work In Restricted Working Space, Add	104.15	
40 05 23 23-0253 150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0254 EA 1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	46.10 12.60	20.96
40 05 23 23-0255 EA 3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	61.40 16.62	27.73
40 05 23 23-0256 EA 1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	77.70 21.11	35.15
40 05 23 23-0257 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	108.13 28.93	48.17
40 05 23 23-0258 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	127.15 33.96	56.63
40 05 23 23-0259 EA 2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	156.64 41.11	68.48
40 05 23 23-0260 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	270.91 65.09	108.45
40 05 23 23-0261 EA 3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	354.29 83.99	139.95
40 05 23 23-0262 EA 4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow For Work In Restricted Working Space, Add	479.43 104.15	173.54
40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)		
40 05 23 23-0264 EA 1/2", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	68.03 19.05	31.77
40 05 23 23-0265 EA 3/4", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	91.17 25.20	42.05
40 05 23 23-0266 EA 1", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	113.29 31.25	52.07
40 05 23 23-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	162.82 43.40	72.38
40 05 23 23-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	185.33 48.82	81.37
40 05 23 23-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	246.00 65.09	108.45
40 05 23 23-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	375.93 94.11	156.88
40 05 23 23-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	509.63 125.99	209.99
40 05 23 23-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee For Work In Restricted Working Space, Add	682.71 156.22	260.37
40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)		
40 05 23 23-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	59.59 16.62	27.73
40 05 23 23-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	76.09 21.11	35.15
40 05 23 23-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	104.80 28.93	48.17
40 05 23 23-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	125.25 33.96	56.63
40 05 23 23-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	157.15 41.11	68.48
40 05 23 23-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	260.14 65.09	108.45
40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	341.43 83.99	139.95
40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer For Work In Restricted Working Space, Add	448.96 104.15	173.54
40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps (40 05 23 23-0232)		
40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	23.21 6.30	10.54
40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	30.78 8.40	14.06
40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	38.88 10.42	17.32
40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	56.66 14.74	24.61
40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	65.29 16.62	27.73
40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	82.97 21.11	35.15
40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	126.89 31.25	52.07
40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	168.47 41.11	68.48
40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap For Work In Restricted Working Space, Add	226.78 52.07	86.83
40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions (40 05 23 23-0232)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	72.85 19.05	31.77
40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	95.84 25.20	42.05
40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	122.05 31.25	52.07
40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	175.70 43.40	72.38
40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	197.82 48.82	81.37
40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	259.01 65.09	108.45
40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	439.30 97.64	162.73
40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	563.32 125.99	209.99
40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	579.89 104.16	173.60
40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings (40 05 23 23-0232)		
40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	45.01 12.60	20.96
40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	59.74 16.62	27.73
40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	76.97 21.11	35.15
40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	106.92 28.93	48.17
40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	125.65 33.96	56.63
40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	154.59 41.11	68.48
40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	255.51 65.09	108.45
40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	329.77 83.99	139.95
40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	424.55 104.15	173.54
40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 Lb. Threaded Fittings (40 05 23 23-0231)		
40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe (40 05 23 23-0312)		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	19.48 3.35	5.59
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	23.35 4.20	7.03
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	29.16 5.04	8.46
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	35.26 5.87	9.76
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	40.81 6.68	11.07
40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	52.37 8.40	14.06
40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	69.77 10.01	16.66
40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	90.48 12.60	20.96
40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 Lb. Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	121.06 16.62	27.73
40 05 23 23-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0312)		
40 05 23 23-0324 EA 1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	46.34 12.60	20.96
40 05 23 23-0325 EA 3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	61.66 16.62	27.73
40 05 23 23-0326 EA 1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	78.23 21.11	35.15
40 05 23 23-0327 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	109.93 28.93	48.17
40 05 23 23-0328 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	131.18 33.96	56.63
40 05 23 23-0329 EA 2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	159.77 41.11	68.48
40 05 23 23-0330 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	266.93 65.09	108.45
40 05 23 23-0331 EA 3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	348.70 83.99	139.95
40 05 23 23-0332 EA 4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	473.45 104.15	173.54



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	
40 05 23 23-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0312)				
40 05 23 23-0334	EA 1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	47.15		20.96
	For Work In Restricted Working Space, Add	12.60		
40 05 23 23-0335	EA 3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	62.17		27.73
	For Work In Restricted Working Space, Add	16.62		
40 05 23 23-0336	EA 1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	78.83		35.15
	For Work In Restricted Working Space, Add	21.11		
40 05 23 23-0337	EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	109.76		48.17
	For Work In Restricted Working Space, Add	28.93		
40 05 23 23-0338	EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	129.05		56.63
	For Work In Restricted Working Space, Add	33.96		
40 05 23 23-0339	EA 2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	159.18		68.48
	For Work In Restricted Working Space, Add	41.11		
40 05 23 23-0340	EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	274.98		108.45
	For Work In Restricted Working Space, Add	65.09		
40 05 23 23-0341	EA 3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	363.69		139.95
	For Work In Restricted Working Space, Add	83.99		
40 05 23 23-0342	EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow	504.78		173.54
	For Work In Restricted Working Space, Add	104.15		
40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees (40 05 23 23-0312)				
40 05 23 23-0344	EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee	69.10		31.77
	For Work In Restricted Working Space, Add	19.05		
40 05 23 23-0345	EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee	92.25		42.05
	For Work In Restricted Working Space, Add	25.20		
40 05 23 23-0346	EA 1", 150#, Type 316 Stainless Steel Threaded Tee	114.51		52.07
	For Work In Restricted Working Space, Add	31.25		
40 05 23 23-0347	EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee	165.30		72.38
	For Work In Restricted Working Space, Add	43.40		
40 05 23 23-0348	EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee	187.78		81.37
	For Work In Restricted Working Space, Add	48.82		
40 05 23 23-0349	EA 2", 150#, Type 316 Stainless Steel Threaded Tee	249.23		108.45
	For Work In Restricted Working Space, Add	65.09		
40 05 23 23-0350	EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee	389.11		156.88
	For Work In Restricted Working Space, Add	94.11		
40 05 23 23-0351	EA 3", 150#, Type 316 Stainless Steel Threaded Tee	527.59		209.99
	For Work In Restricted Working Space, Add	125.99		
40 05 23 23-0352	EA 4", 150#, Type 316 Stainless Steel Threaded Tee	696.10		260.37
	For Work In Restricted Working Space, Add	156.22		
40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)				
40 05 23 23-0354	EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer	60.50		27.73
	For Work In Restricted Working Space, Add	16.62		
40 05 23 23-0355	EA 1", 150#, Type 316 Stainless Steel Threaded Reducer	78.81		35.15
	For Work In Restricted Working Space, Add	21.11		
40 05 23 23-0356	EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer	105.31		48.17
	For Work In Restricted Working Space, Add	28.93		
40 05 23 23-0357	EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer	127.91		56.63
	For Work In Restricted Working Space, Add	33.96		
40 05 23 23-0358	EA 2", 150#, Type 316 Stainless Steel Threaded Reducer	161.82		68.48
	For Work In Restricted Working Space, Add	41.11		
40 05 23 23-0359	EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer	270.78		108.45
	For Work In Restricted Working Space, Add	65.09		
40 05 23 23-0360	EA 3", 150#, Type 316 Stainless Steel Threaded Reducer	353.18		139.95
	For Work In Restricted Working Space, Add	83.99		
40 05 23 23-0361	EA 4", 150#, Type 316 Stainless Steel Threaded Reducer	468.54		173.54
	For Work In Restricted Working Space, Add	104.15		
40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)				
40 05 23 23-0363	EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap	23.81		10.54
	For Work In Restricted Working Space, Add	6.30		
40 05 23 23-0364	EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap	31.22		14.06
	For Work In Restricted Working Space, Add	8.40		
40 05 23 23-0365	EA 1", 150#, Type 316 Stainless Steel Threaded Cap	39.67		17.32
	For Work In Restricted Working Space, Add	10.42		
40 05 23 23-0366	EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap	58.86		24.61
	For Work In Restricted Working Space, Add	14.74		
40 05 23 23-0367	EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap	67.89		27.73
	For Work In Restricted Working Space, Add	16.62		
40 05 23 23-0368	EA 2", 150#, Type 316 Stainless Steel Threaded Cap	86.37		35.15
	For Work In Restricted Working Space, Add	21.11		
40 05 23 23-0369	EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap	132.51		52.07
	For Work In Restricted Working Space, Add	31.25		
40 05 23 23-0370	EA 3", 150#, Type 316 Stainless Steel Threaded Cap	174.17		68.48
	For Work In Restricted Working Space, Add	41.11		
40 05 23 23-0371	EA 4", 150#, Type 316 Stainless Steel Threaded Cap	238.10		86.83
	For Work In Restricted Working Space, Add	52.07		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)				
40 05 23 23-0373	EA 1/2", 150#, Type 316 Stainless Steel Threaded Union	74.14	31.77	
	For Work In Restricted Working Space, Add	19.05		
40 05 23 23-0374	EA 3/4", 150#, Type 316 Stainless Steel Threaded Union	100.69	42.05	
	For Work In Restricted Working Space, Add	25.20		
40 05 23 23-0375	EA 1", 150#, Type 316 Stainless Steel Threaded Union	124.50	52.07	
	For Work In Restricted Working Space, Add	31.25		
40 05 23 23-0376	EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union	179.87	72.38	
	For Work In Restricted Working Space, Add	43.40		
40 05 23 23-0377	EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union	202.69	81.37	
	For Work In Restricted Working Space, Add	48.82		
40 05 23 23-0378	EA 2", 150#, Type 316 Stainless Steel Threaded Union	264.65	108.45	
	For Work In Restricted Working Space, Add	65.09		
40 05 23 23-0379	EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union	447.95	162.73	
	For Work In Restricted Working Space, Add	97.64		
40 05 23 23-0380	EA 3", 150#, Type 316 Stainless Steel Threaded Union	590.28	209.99	
	For Work In Restricted Working Space, Add	125.99		
40 05 23 23-0381	EA 4", 150#, Type 316 Stainless Steel Threaded Union	637.34	173.60	
	For Work In Restricted Working Space, Add	104.16		
40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)				
40 05 23 23-0383	EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling	47.04	20.96	
	For Work In Restricted Working Space, Add	12.60		
40 05 23 23-0384	EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling	60.68	27.73	
	For Work In Restricted Working Space, Add	16.62		
40 05 23 23-0385	EA 1", 150#, Type 316 Stainless Steel Threaded Coupling	77.87	35.15	
	For Work In Restricted Working Space, Add	21.11		
40 05 23 23-0386	EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling	108.35	48.17	
	For Work In Restricted Working Space, Add	28.93		
40 05 23 23-0387	EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling	127.36	56.63	
	For Work In Restricted Working Space, Add	33.96		
40 05 23 23-0388	EA 2", 150#, Type 316 Stainless Steel Threaded Coupling	156.96	68.48	
	For Work In Restricted Working Space, Add	41.11		
40 05 23 23-0389	EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling	263.79	108.45	
	For Work In Restricted Working Space, Add	65.09		
40 05 23 23-0390	EA 3", 150#, Type 316 Stainless Steel Threaded Coupling	340.45	139.95	
	For Work In Restricted Working Space, Add	83.99		
40 05 23 23-0391	EA 4", 150#, Type 316 Stainless Steel Threaded Coupling	440.56	173.54	
	For Work In Restricted Working Space, Add	104.15		
40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)				
40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)				
40 05 23 23-0394	LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	17.96	5.47	
	For Work In Restricted Working Space, Add	3.28		
40 05 23 23-0395	LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	21.50	6.68	
	For Work In Restricted Working Space, Add	4.01		
40 05 23 23-0396	LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	27.78	7.89	
	For Work In Restricted Working Space, Add	4.70		
40 05 23 23-0397	LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	34.08	9.84	
	For Work In Restricted Working Space, Add	5.88		
40 05 23 23-0398	LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	38.01	11.06	
	For Work In Restricted Working Space, Add	6.62		
40 05 23 23-0399	LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	47.03	13.73	
	For Work In Restricted Working Space, Add	8.21		
40 05 23 23-0400	LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	55.73	15.67	
	For Work In Restricted Working Space, Add	9.38		
40 05 23 23-0401	LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	65.18	17.62	
	For Work In Restricted Working Space, Add	10.56		
40 05 23 23-0402	LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	81.00	20.89	
	For Work In Restricted Working Space, Add	12.50		
40 05 23 23-0403	LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	116.12	27.45	
	For Work In Restricted Working Space, Add	16.41		
40 05 23 23-0404	LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	196.02	47.62	
	For Work In Restricted Working Space, Add	30.60		
40 05 23 23-0405	LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	244.60	52.36	
	For Work In Restricted Working Space, Add	33.66		
40 05 23 23-0406	LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	289.70	58.22	
	For Work In Restricted Working Space, Add	37.40		
40 05 23 23-0407	LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	352.21	65.45	
	For Work In Restricted Working Space, Add	42.07		
40 05 23 23-0408	LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	389.69	74.79	
	For Work In Restricted Working Space, Add	48.08		
40 05 23 23-0409	LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	438.97	87.26	
	For Work In Restricted Working Space, Add	56.10		
40 05 23 23-0410	LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	598.23	104.72	
	For Work In Restricted Working Space, Add	67.32		
40 05 23 23-0411	LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting	776.30	130.89	
	For Work In Restricted Working Space, Add	84.15		



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 23-0392)				
40 05 23 23-0413	EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	143.65		62.31
	For Work In Restricted Working Space, Add	41.54		
40 05 23 23-0414	EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	152.16		66.14
	For Work In Restricted Working Space, Add	44.09		
40 05 23 23-0415	EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	167.63		72.69
	For Work In Restricted Working Space, Add	48.46		
40 05 23 23-0416	EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	182.92		79.22
	For Work In Restricted Working Space, Add	52.81		
40 05 23 23-0417	EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	202.05		87.48
	For Work In Restricted Working Space, Add	58.32		
40 05 23 23-0418	EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	225.75		97.33
	For Work In Restricted Working Space, Add	64.88		
40 05 23 23-0419	EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow	293.00		124.57
	For Work In Restricted Working Space, Add	83.04		
40 05 23 23-0420	EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	343.66		145.99
	For Work In Restricted Working Space, Add	97.33		
40 05 23 23-0421	EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	419.77		174.73
	For Work In Restricted Working Space, Add	116.49		
40 05 23 23-0422	EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	569.38		218.28
	For Work In Restricted Working Space, Add	145.52		
40 05 23 23-0423	EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	956.09		360.63
	For Work In Restricted Working Space, Add	240.42		
40 05 23 23-0424	EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	1,400.37		480.82
	For Work In Restricted Working Space, Add	320.56		
40 05 23 23-0425	EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,114.06		721.25
	For Work In Restricted Working Space, Add	480.83		
40 05 23 23-0426	EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,497.45		841.46
	For Work In Restricted Working Space, Add	560.97		
40 05 23 23-0427	EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	2,927.68		959.83
	For Work In Restricted Working Space, Add	639.89		
40 05 23 23-0428	EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	3,697.91		1,202.09
	For Work In Restricted Working Space, Add	801.39		
40 05 23 23-0429	EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	5,156.96		1,682.91
	For Work In Restricted Working Space, Add	1,121.94		
40 05 23 23-0430	EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow.....	7,400.66		2,404.16
	For Work In Restricted Working Space, Add	1,602.77		
40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)				
40 05 23 23-0432	EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	145.18		62.31
	For Work In Restricted Working Space, Add	41.54		
40 05 23 23-0433	EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	153.69		66.14
	For Work In Restricted Working Space, Add	44.09		
40 05 23 23-0434	EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	169.46		72.69
	For Work In Restricted Working Space, Add	48.46		
40 05 23 23-0435	EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	185.36		79.22
	For Work In Restricted Working Space, Add	52.81		
40 05 23 23-0436	EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	202.35		87.48
	For Work In Restricted Working Space, Add	58.32		
40 05 23 23-0437	EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	225.75		97.33
	For Work In Restricted Working Space, Add	64.88		
40 05 23 23-0438	EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow	291.47		124.57
	For Work In Restricted Working Space, Add	83.04		
40 05 23 23-0439	EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	340.91		145.99
	For Work In Restricted Working Space, Add	97.33		
40 05 23 23-0440	EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	414.58		174.73
	For Work In Restricted Working Space, Add	116.49		
40 05 23 23-0441	EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	542.20		218.28
	For Work In Restricted Working Space, Add	145.52		
40 05 23 23-0442	EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	903.65		360.63
	For Work In Restricted Working Space, Add	240.42		
40 05 23 23-0443	EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,307.02		480.82
	For Work In Restricted Working Space, Add	320.56		
40 05 23 23-0444	EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,966.27		721.25
	For Work In Restricted Working Space, Add	480.83		
40 05 23 23-0445	EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,316.05		841.46
	For Work In Restricted Working Space, Add	560.97		
40 05 23 23-0446	EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,703.80		959.83
	For Work In Restricted Working Space, Add	639.89		
40 05 23 23-0447	EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	3,403.91		1,202.09
	For Work In Restricted Working Space, Add	801.39		
40 05 23 23-0448	EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	4,760.25		1,682.91
	For Work In Restricted Working Space, Add	1,121.94		
40 05 23 23-0449	EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow.....	6,837.91		2,404.16
	For Work In Restricted Working Space, Add	1,602.77		
40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee (40 05 23 23-0392)				

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	192.79 52.80	79.20
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	232.84 64.81	97.22
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	259.53 72.82	109.23
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	295.47 83.04	124.57
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	313.93 89.14	133.71
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	342.10 97.22	145.83
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	439.16 116.49	174.73
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	519.62 145.99	218.99
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	595.63 163.85	245.77
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	859.84 218.46	327.68
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,378.93 320.56	480.82
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,114.06 480.83	721.25
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,713.66 601.04	901.56
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,333.61 722.28	1,083.43
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,039.78 881.11	1,321.66
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,140.66 1,121.94	1,682.91
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,868.06 1,476.24	2,214.37
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	10,304.49 2,243.89	3,365.83
40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0392)		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	176.96 44.11	66.16
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	210.10 54.05	81.08
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	257.08 60.73	91.10
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	268.35 69.23	103.85
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	281.89 74.40	111.59
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	362.19 81.08	121.61
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	427.19 97.19	145.76
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	527.05 121.46	182.20
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	688.03 138.79	208.18
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,264.21 200.35	300.52
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,067.06 267.13	400.70
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,958.58 400.69	601.03
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,588.27 481.39	722.08
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,441.63 587.20	880.80
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,732.85 747.96	1,121.95
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,131.99 984.16	1,476.23
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	12,708.80 1,494.59	2,241.89
40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	144.09 40.11	60.17
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	158.53 43.71	65.56
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	175.74 48.46	72.69
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	187.33 52.81	79.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	204.49	87.48
For Work In Restricted Working Space, Add	58.32	
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer	272.86	109.31
For Work In Restricted Working Space, Add	72.88	
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer	308.63	124.45
For Work In Restricted Working Space, Add	82.97	
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer	360.79	145.83
For Work In Restricted Working Space, Add	97.22	
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer	465.10	185.66
For Work In Restricted Working Space, Add	123.77	
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer	725.49	288.50
For Work In Restricted Working Space, Add	192.33	
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer	921.79	360.63
For Work In Restricted Working Space, Add	240.42	
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,239.06	480.82
For Work In Restricted Working Space, Add	320.56	
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer	1,757.12	631.09
For Work In Restricted Working Space, Add	420.73	
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,051.48	719.19
For Work In Restricted Working Space, Add	479.46	
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer	2,528.28	901.56
For Work In Restricted Working Space, Add	601.04	
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer	3,538.31	1,202.09
For Work In Restricted Working Space, Add	801.39	
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer	5,114.13	1,803.13
For Work In Restricted Working Space, Add	1,202.08	
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	172.81	60.17
For Work In Restricted Working Space, Add	40.11	
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	179.60	65.56
For Work In Restricted Working Space, Add	43.71	
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	190.17	72.69
For Work In Restricted Working Space, Add	48.46	
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	213.60	79.22
For Work In Restricted Working Space, Add	52.81	
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	223.43	87.48
For Work In Restricted Working Space, Add	58.32	
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	293.63	109.31
For Work In Restricted Working Space, Add	72.88	
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	329.09	124.45
For Work In Restricted Working Space, Add	82.97	
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	376.61	145.83
For Work In Restricted Working Space, Add	97.22	
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	522.22	185.66
For Work In Restricted Working Space, Add	123.77	
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	847.92	288.50
For Work In Restricted Working Space, Add	192.33	
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,160.61	360.63
For Work In Restricted Working Space, Add	240.42	
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	1,459.74	480.82
For Work In Restricted Working Space, Add	320.56	
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,266.20	631.09
For Work In Restricted Working Space, Add	420.73	
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	2,634.80	719.19
For Work In Restricted Working Space, Add	479.46	
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	3,240.20	901.56
For Work In Restricted Working Space, Add	601.04	
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	4,679.13	1,202.09
For Work In Restricted Working Space, Add	801.39	
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer	6,626.06	1,803.13
For Work In Restricted Working Space, Add	1,202.08	
40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap	78.71	31.16
For Work In Restricted Working Space, Add	20.77	
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap	86.32	33.06
For Work In Restricted Working Space, Add	22.05	
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap	94.81	36.34
For Work In Restricted Working Space, Add	24.23	
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap	104.36	39.61
For Work In Restricted Working Space, Add	26.40	
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap	112.17	43.74
For Work In Restricted Working Space, Add	29.16	
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap	121.27	48.66
For Work In Restricted Working Space, Add	32.44	
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap	157.35	62.29
For Work In Restricted Working Space, Add	41.52	
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap	178.40	73.00
For Work In Restricted Working Space, Add	48.66	
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap	214.93	87.37
For Work In Restricted Working Space, Add	58.25	
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap	276.83	109.31
For Work In Restricted Working Space, Add	72.88	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	461.73 120.21	180.31
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	614.88 160.28	240.42
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	906.46 240.42	360.61
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,063.72 280.49	420.72
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,232.57 319.95	479.92
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,556.24 400.69	601.03
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,150.40 560.97	841.46
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,165.53 801.39	1,202.07
40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	19.69 3.28	5.47
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	23.95 4.01	6.68
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	29.10 4.70	7.89
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	36.38 5.88	9.71
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	41.75 6.62	10.93
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	53.19 8.21	13.97
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	65.13 9.38	15.79
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	65.02 10.56	17.62
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	101.96 12.50	20.65
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	155.46 16.41	27.33
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	274.70 30.60	47.37
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	342.47 33.66	52.36
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	422.11 37.40	57.97
40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0541)		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	144.87 41.54	62.31
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	153.38 44.09	66.14
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	168.54 48.46	72.69
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	183.58 52.81	79.22
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	202.66 58.32	87.48
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	227.89 64.88	97.33
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	300.94 83.04	124.57
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	355.27 97.33	145.99
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	439.32 116.49	174.73
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	694.30 145.52	218.28
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,126.31 240.42	360.63
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,745.74 320.56	480.82
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,562.01 480.83	721.25
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,040.88 560.97	841.46
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,625.79 639.89	959.83
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,667.92 801.39	1,202.09



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0573	EA		20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....	6,354.22	1,682.91
			For Work In Restricted Working Space, Add	1,121.94	
40 05 23 23-0574	EA		24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow.....	9,108.75	2,404.16
			For Work In Restricted Working Space, Add	1,602.77	
40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0541)					
40 05 23 23-0576	EA		1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	147.01	62.31
			For Work In Restricted Working Space, Add	41.54	
40 05 23 23-0577	EA		3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	155.52	66.14
			For Work In Restricted Working Space, Add	44.09	
40 05 23 23-0578	EA		1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	170.07	72.69
			For Work In Restricted Working Space, Add	48.46	
40 05 23 23-0579	EA		1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	185.14	79.22
			For Work In Restricted Working Space, Add	52.81	
40 05 23 23-0580	EA		1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	204.18	87.48
			For Work In Restricted Working Space, Add	58.32	
40 05 23 23-0581	EA		2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	228.21	97.33
			For Work In Restricted Working Space, Add	64.88	
40 05 23 23-0582	EA		2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow	300.94	124.57
			For Work In Restricted Working Space, Add	83.04	
40 05 23 23-0583	EA		3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	346.72	145.99
			For Work In Restricted Working Space, Add	97.33	
40 05 23 23-0584	EA		4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	443.90	174.73
			For Work In Restricted Working Space, Add	116.49	
40 05 23 23-0585	EA		6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	590.15	218.28
			For Work In Restricted Working Space, Add	145.52	
40 05 23 23-0586	EA		8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	1,017.12	360.63
			For Work In Restricted Working Space, Add	240.42	
40 05 23 23-0587	EA		10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	1,472.95	480.82
			For Work In Restricted Working Space, Add	320.56	
40 05 23 23-0588	EA		12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	2,159.59	721.25
			For Work In Restricted Working Space, Add	480.83	
40 05 23 23-0589	EA		14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	2,452.38	841.46
			For Work In Restricted Working Space, Add	560.97	
40 05 23 23-0590	EA		16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	2,925.11	959.83
			For Work In Restricted Working Space, Add	639.89	
40 05 23 23-0591	EA		18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	3,690.40	1,202.09
			For Work In Restricted Working Space, Add	801.39	
40 05 23 23-0592	EA		20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	5,035.20	1,682.91
			For Work In Restricted Working Space, Add	1,121.94	
40 05 23 23-0593	EA		24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow.....	7,304.76	2,404.16
			For Work In Restricted Working Space, Add	1,602.77	
40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0541)					
40 05 23 23-0595	EA		1/2", Type 304, Schedule 40 Stainless Steel Tee.....	194.01	79.20
			For Work In Restricted Working Space, Add	52.80	
40 05 23 23-0596	EA		3/4", Type 304, Schedule 40 Stainless Steel Tee.....	234.06	97.22
			For Work In Restricted Working Space, Add	64.81	
40 05 23 23-0597	EA		1", Type 304, Schedule 40 Stainless Steel Tee.....	260.75	109.23
			For Work In Restricted Working Space, Add	72.82	
40 05 23 23-0598	EA		1-1/4", Type 304, Schedule 40 Stainless Steel Tee.....	298.58	124.57
			For Work In Restricted Working Space, Add	83.04	
40 05 23 23-0599	EA		1-1/2", Type 304, Schedule 40 Stainless Steel Tee.....	315.15	133.71
			For Work In Restricted Working Space, Add	89.14	
40 05 23 23-0600	EA		2", Type 304, Schedule 40 Stainless Steel Tee.....	343.63	145.83
			For Work In Restricted Working Space, Add	97.22	
40 05 23 23-0601	EA		2-1/2", Type 304, Schedule 40 Stainless Steel Tee.....	443.29	174.73
			For Work In Restricted Working Space, Add	116.49	
40 05 23 23-0602	EA		3", Type 304, Schedule 40 Stainless Steel Tee.....	526.03	218.99
			For Work In Restricted Working Space, Add	145.99	
40 05 23 23-0603	EA		4", Type 304, Schedule 40 Stainless Steel Tee.....	602.65	245.77
			For Work In Restricted Working Space, Add	163.85	
40 05 23 23-0604	EA		6", Type 304, Schedule 40 Stainless Steel Tee.....	908.40	327.68
			For Work In Restricted Working Space, Add	218.46	
40 05 23 23-0605	EA		8", Type 304, Schedule 40 Stainless Steel Tee.....	1,523.08	480.82
			For Work In Restricted Working Space, Add	320.56	
40 05 23 23-0606	EA		10", Type 304, Schedule 40 Stainless Steel Tee.....	2,556.42	721.25
			For Work In Restricted Working Space, Add	480.83	
40 05 23 23-0607	EA		12", Type 304, Schedule 40 Stainless Steel Tee.....	3,180.09	901.56
			For Work In Restricted Working Space, Add	601.04	
40 05 23 23-0608	EA		14", Type 304, Schedule 40 Stainless Steel Tee.....	4,273.48	1,083.43
			For Work In Restricted Working Space, Add	722.28	
40 05 23 23-0609	EA		16", Type 304, Schedule 40 Stainless Steel Tee.....	5,411.94	1,321.66
			For Work In Restricted Working Space, Add	881.11	
40 05 23 23-0610	EA		18", Type 304, Schedule 40 Stainless Steel Tee.....	7,003.71	1,682.91
			For Work In Restricted Working Space, Add	1,121.94	
40 05 23 23-0611	EA		20", Type 304, Schedule 40 Stainless Steel Tee.....	9,053.37	2,214.37
			For Work In Restricted Working Space, Add	1,476.24	
40 05 23 23-0612	EA		24", Type 304, Schedule 40 Stainless Steel Tee.....	13,853.70	3,365.83
			For Work In Restricted Working Space, Add	2,243.89	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)				
40 05 23 23-0614	EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	180.93	66.16	
	For Work In Restricted Working Space, Add	44.11		
40 05 23 23-0615	EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee	214.07	81.08	
	For Work In Restricted Working Space, Add	54.05		
40 05 23 23-0616	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee	276.19	91.10	
	For Work In Restricted Working Space, Add	60.73		
40 05 23 23-0617	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	274.15	103.85	
	For Work In Restricted Working Space, Add	69.23		
40 05 23 23-0618	EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee	281.89	111.59	
	For Work In Restricted Working Space, Add	74.40		
40 05 23 23-0619	EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee	342.67	121.61	
	For Work In Restricted Working Space, Add	81.08		
40 05 23 23-0620	EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee	384.12	145.76	
	For Work In Restricted Working Space, Add	97.19		
40 05 23 23-0621	EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee	504.45	182.20	
	For Work In Restricted Working Space, Add	121.46		
40 05 23 23-0622	EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee	691.69	208.18	
	For Work In Restricted Working Space, Add	138.79		
40 05 23 23-0623	EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee	1,134.57	300.52	
	For Work In Restricted Working Space, Add	200.35		
40 05 23 23-0624	EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee	2,107.63	400.70	
	For Work In Restricted Working Space, Add	267.13		
40 05 23 23-0625	EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee	3,039.73	601.03	
	For Work In Restricted Working Space, Add	400.69		
40 05 23 23-0626	EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee	3,474.41	722.08	
	For Work In Restricted Working Space, Add	481.39		
40 05 23 23-0627	EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee	4,299.03	880.80	
	For Work In Restricted Working Space, Add	587.20		
40 05 23 23-0628	EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee	5,546.90	1,121.95	
	For Work In Restricted Working Space, Add	747.96		
40 05 23 23-0629	EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee	7,853.52	1,476.23	
	For Work In Restricted Working Space, Add	984.16		
40 05 23 23-0630	EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee	12,265.29	2,241.89	
	For Work In Restricted Working Space, Add	1,494.59		
40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)				
40 05 23 23-0632	EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	147.15	60.17	
	For Work In Restricted Working Space, Add	40.11		
40 05 23 23-0633	EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer	161.58	65.56	
	For Work In Restricted Working Space, Add	43.71		
40 05 23 23-0634	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	175.96	72.69	
	For Work In Restricted Working Space, Add	48.46		
40 05 23 23-0635	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	190.39	79.22	
	For Work In Restricted Working Space, Add	52.81		
40 05 23 23-0636	EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	206.32	87.48	
	For Work In Restricted Working Space, Add	58.32		
40 05 23 23-0637	EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer	272.86	109.31	
	For Work In Restricted Working Space, Add	72.88		
40 05 23 23-0638	EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer	297.63	124.45	
	For Work In Restricted Working Space, Add	82.97		
40 05 23 23-0639	EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer	345.15	145.83	
	For Work In Restricted Working Space, Add	97.22		
40 05 23 23-0640	EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer	467.55	185.66	
	For Work In Restricted Working Space, Add	123.77		
40 05 23 23-0641	EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer	777.35	288.50	
	For Work In Restricted Working Space, Add	192.33		
40 05 23 23-0642	EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,010.86	360.63	
	For Work In Restricted Working Space, Add	240.42		
40 05 23 23-0643	EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,318.55	480.82	
	For Work In Restricted Working Space, Add	320.56		
40 05 23 23-0644	EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer	1,935.52	631.09	
	For Work In Restricted Working Space, Add	420.73		
40 05 23 23-0645	EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,275.74	719.19	
	For Work In Restricted Working Space, Add	479.46		
40 05 23 23-0646	EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer	2,982.42	901.56	
	For Work In Restricted Working Space, Add	601.04		
40 05 23 23-0647	EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer	4,073.99	1,202.09	
	For Work In Restricted Working Space, Add	801.39		
40 05 23 23-0648	EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer	5,668.88	1,803.13	
	For Work In Restricted Working Space, Add	1,202.08		
40 05 23 23-0649	EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	174.05	60.17	
	For Work In Restricted Working Space, Add	40.11		
40 05 23 23-0650	EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	186.02	65.56	
	For Work In Restricted Working Space, Add	43.71		
40 05 23 23-0651	EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	212.17	72.69	
	For Work In Restricted Working Space, Add	48.46		
40 05 23 23-0652	EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	224.90	79.22	
	For Work In Restricted Working Space, Add	52.81		
40 05 23 23-0653	EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer	240.84	87.48	
	For Work In Restricted Working Space, Add	58.32		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	293.63 72.88	109.31
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	366.97 82.97	124.45
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	402.27 97.22	145.83
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	547.57 123.77	185.66
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	850.58 192.33	288.50
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	1,158.30 240.42	360.63
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	1,579.81 320.56	480.82
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	2,575.89 420.73	631.09
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	2,922.04 479.46	719.19
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	3,818.54 601.04	901.56
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	4,964.55 801.39	1,202.09
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... For Work In Restricted Working Space, Add	7,891.15 1,202.08	1,803.13
40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	79.62 20.77	31.16
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	85.40 22.05	33.06
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	95.73 24.23	36.34
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	108.45 26.40	39.61
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	116.14 29.16	43.74
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	120.97 32.44	48.66
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	155.29 41.52	62.29
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	179.62 48.66	73.00
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	218.59 58.25	87.37
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	299.43 72.88	109.31
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	498.02 120.21	180.31
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	666.20 160.28	240.42
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,004.25 240.42	360.61
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,153.30 280.49	420.72
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,355.80 319.95	479.92
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	1,702.30 400.69	601.03
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	2,345.18 560.97	841.46
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap For Work In Restricted Working Space, Add	3,491.19 801.39	1,202.07
40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	20.15 3.28	5.47
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	24.04 4.01	6.68
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	31.57 4.70	7.89
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	38.60 5.88	9.84
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	42.98 6.62	11.06
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	53.17 8.21	13.73
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	63.37 9.38	15.67
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	74.55 10.56	17.62

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	93.28 12.50	20.89
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	135.29 16.41	27.45
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	225.38 30.60	47.62
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	285.95 33.66	52.36
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	341.24 37.40	58.22
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	418.41 42.07	65.45
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	461.34 48.08	74.79
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	517.67 56.10	87.26
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	714.97 67.32	104.72
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	931.14 84.15	130.89
40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0695)		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	145.18 41.54	62.31
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	153.69 44.09	66.14
40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	169.46 48.46	72.69
40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	185.58 52.81	79.22
40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	203.88 58.32	87.48
40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	227.89 64.88	97.33
40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	296.97 83.04	124.57
40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	349.47 97.33	145.99
40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	428.63 116.49	174.73
40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	592.59 145.52	218.28
40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	999.31 240.42	360.63
40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,500.30 320.56	480.82
40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,250.30 480.83	721.25
40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,625.65 560.97	841.46
40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,130.46 639.89	959.83
40 05 23 23-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,941.07 801.39	1,202.09
40 05 23 23-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,504.32 1,121.94	1,682.91
40 05 23 23-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,916.82 1,602.77	2,404.16
40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0695)		
40 05 23 23-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	147.01 41.54	62.31
40 05 23 23-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	155.52 44.09	66.14
40 05 23 23-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	171.29 48.46	72.69
40 05 23 23-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	188.03 52.81	79.22
40 05 23 23-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	203.88 58.32	87.48
40 05 23 23-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	227.89 64.88	97.33
40 05 23 23-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	295.14 83.04	124.57
40 05 23 23-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	346.72 97.33	145.99
40 05 23 23-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	422.21 116.49	174.73
40 05 23 23-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	554.72 145.52	218.28



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0735	EA		8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	931.35	360.63
			For Work In Restricted Working Space, Add	240.42	
40 05 23 23-0736	EA		10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	1,472.95	480.82
			For Work In Restricted Working Space, Add	320.56	
40 05 23 23-0737	EA		12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,159.59	721.25
			For Work In Restricted Working Space, Add	480.83	
40 05 23 23-0738	EA		14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,540.65	841.46
			For Work In Restricted Working Space, Add	560.97	
40 05 23 23-0739	EA		16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	2,974.61	959.83
			For Work In Restricted Working Space, Add	639.89	
40 05 23 23-0740	EA		18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	3,757.54	1,202.09
			For Work In Restricted Working Space, Add	801.39	
40 05 23 23-0741	EA		20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	5,339.41	1,682.91
			For Work In Restricted Working Space, Add	1,121.94	
40 05 23 23-0742	EA		24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow.....	7,697.18	2,404.16
			For Work In Restricted Working Space, Add	1,602.77	
40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)					
40 05 23 23-0744	EA		1/2", Type 316, Schedule 10 Stainless Steel Tee.....	196.76	79.20
			For Work In Restricted Working Space, Add	52.80	
40 05 23 23-0745	EA		3/4", Type 316, Schedule 10 Stainless Steel Tee.....	236.81	97.22
			For Work In Restricted Working Space, Add	64.81	
40 05 23 23-0746	EA		1", Type 316, Schedule 10 Stainless Steel Tee.....	263.50	109.23
			For Work In Restricted Working Space, Add	72.82	
40 05 23 23-0747	EA		1-1/4", Type 316, Schedule 10 Stainless Steel Tee.....	302.80	124.57
			For Work In Restricted Working Space, Add	83.04	
40 05 23 23-0748	EA		1-1/2", Type 316, Schedule 10 Stainless Steel Tee.....	319.73	133.71
			For Work In Restricted Working Space, Add	89.14	
40 05 23 23-0749	EA		2", Type 316, Schedule 10 Stainless Steel Tee.....	347.29	145.83
			For Work In Restricted Working Space, Add	97.22	
40 05 23 23-0750	EA		2-1/2", Type 316, Schedule 10 Stainless Steel Tee.....	422.52	174.73
			For Work In Restricted Working Space, Add	116.49	
40 05 23 23-0751	EA		3", Type 316, Schedule 10 Stainless Steel Tee.....	529.70	218.99
			For Work In Restricted Working Space, Add	145.99	
40 05 23 23-0752	EA		4", Type 316, Schedule 10 Stainless Steel Tee.....	609.37	245.77
			For Work In Restricted Working Space, Add	163.85	
40 05 23 23-0753	EA		6", Type 316, Schedule 10 Stainless Steel Tee.....	899.24	327.68
			For Work In Restricted Working Space, Add	218.46	
40 05 23 23-0754	EA		8", Type 316, Schedule 10 Stainless Steel Tee.....	1,482.49	480.82
			For Work In Restricted Working Space, Add	320.56	
40 05 23 23-0755	EA		10", Type 316, Schedule 10 Stainless Steel Tee.....	2,312.97	721.25
			For Work In Restricted Working Space, Add	480.83	
40 05 23 23-0756	EA		12", Type 316, Schedule 10 Stainless Steel Tee.....	2,977.21	901.56
			For Work In Restricted Working Space, Add	601.04	
40 05 23 23-0757	EA		14", Type 316, Schedule 10 Stainless Steel Tee.....	3,822.29	1,083.43
			For Work In Restricted Working Space, Add	722.28	
40 05 23 23-0758	EA		16", Type 316, Schedule 10 Stainless Steel Tee.....	4,513.04	1,321.66
			For Work In Restricted Working Space, Add	881.11	
40 05 23 23-0759	EA		18", Type 316, Schedule 10 Stainless Steel Tee.....	5,736.12	1,682.91
			For Work In Restricted Working Space, Add	1,121.94	
40 05 23 23-0760	EA		20", Type 316, Schedule 10 Stainless Steel Tee.....	7,736.40	2,214.37
			For Work In Restricted Working Space, Add	1,476.24	
40 05 23 23-0761	EA		24", Type 316, Schedule 10 Stainless Steel Tee.....	11,066.08	3,365.83
			For Work In Restricted Working Space, Add	2,243.89	
40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)					
40 05 23 23-0763	EA		3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	186.43	66.16
			For Work In Restricted Working Space, Add	44.11	
40 05 23 23-0764	EA		1", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	221.40	81.08
			For Work In Restricted Working Space, Add	54.05	
40 05 23 23-0765	EA		1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	270.86	91.10
			For Work In Restricted Working Space, Add	60.73	
40 05 23 23-0766	EA		1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	277.82	103.85
			For Work In Restricted Working Space, Add	69.23	
40 05 23 23-0767	EA		2", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	295.03	111.59
			For Work In Restricted Working Space, Add	74.40	
40 05 23 23-0768	EA		2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	401.90	121.61
			For Work In Restricted Working Space, Add	81.08	
40 05 23 23-0769	EA		3", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	391.45	145.76
			For Work In Restricted Working Space, Add	97.19	
40 05 23 23-0770	EA		4", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	527.05	182.20
			For Work In Restricted Working Space, Add	121.46	
40 05 23 23-0771	EA		6", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	744.53	208.18
			For Work In Restricted Working Space, Add	138.79	
40 05 23 23-0772	EA		8", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	1,428.49	300.52
			For Work In Restricted Working Space, Add	200.35	
40 05 23 23-0773	EA		10", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	2,614.97	400.70
			For Work In Restricted Working Space, Add	267.13	
40 05 23 23-0774	EA		12", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	3,425.34	601.03
			For Work In Restricted Working Space, Add	400.69	
40 05 23 23-0775	EA		14", Type 316, Schedule 10 Stainless Steel Reducing Tee.....	3,897.51	722.08
			For Work In Restricted Working Space, Add	481.39	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
40 05 23 23-0776	EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,828.92 587.20		880.80	
40 05 23 23-0777	EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,237.89 747.96		1,121.95	
40 05 23 23-0778	EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,888.30 984.16		1,476.23	
40 05 23 23-0779	EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	13,913.38 1,494.59		2,241.89	
40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)					
40 05 23 23-0781	EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	146.84 40.11		60.17	
40 05 23 23-0782	EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	161.89 43.71		65.56	
40 05 23 23-0783	EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	180.62 48.46		72.69	
40 05 23 23-0784	EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	189.47 52.81		79.22	
40 05 23 23-0785	EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	206.32 58.32		87.48	
40 05 23 23-0786	EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	271.58 72.88		109.31	
40 05 23 23-0787	EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	315.96 82.97		124.45	
40 05 23 23-0788	EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	347.33 97.22		145.83	
40 05 23 23-0789	EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	480.07 123.77		185.66	
40 05 23 23-0790	EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	741.14 192.33		288.50	
40 05 23 23-0791	EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	958.42 240.42		360.63	
40 05 23 23-0792	EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,282.28 320.56		480.82	
40 05 23 23-0793	EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,816.64 420.73		631.09	
40 05 23 23-0794	EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,107.84 479.46		719.19	
40 05 23 23-0795	EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,611.13 601.04		901.56	
40 05 23 23-0796	EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,666.32 801.39		1,202.09	
40 05 23 23-0797	EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,341.09 1,202.08		1,803.13	
40 05 23 23-0798	EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	170.58 40.11		60.17	
40 05 23 23-0799	EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	190.08 43.71		65.56	
40 05 23 23-0800	EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	214.05 48.46		72.69	
40 05 23 23-0801	EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	228.56 52.81		79.22	
40 05 23 23-0802	EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	230.45 58.32		87.48	
40 05 23 23-0803	EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	304.93 72.88		109.31	
40 05 23 23-0804	EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	350.17 82.97		124.45	
40 05 23 23-0805	EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	393.72 97.22		145.83	
40 05 23 23-0806	EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	559.79 123.77		185.66	
40 05 23 23-0807	EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	913.90 192.33		288.50	
40 05 23 23-0808	EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,255.95 240.42		360.63	
40 05 23 23-0809	EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,591.02 320.56		480.82	
40 05 23 23-0810	EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,402.12 420.73		631.09	
40 05 23 23-0811	EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,815.48 479.46		719.19	
40 05 23 23-0812	EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,490.31 601.04		901.56	
40 05 23 23-0813	EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,072.41 801.39		1,202.09	
40 05 23 23-0814	EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	7,010.93 1,202.08		1,803.13	
40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)					
40 05 23 23-0816	EA 1/2", Type 316, Schedule 10 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	82.68 20.77		31.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	91.51 22.05	33.06
40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	100.31 24.23	36.34
40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	109.67 26.40	39.61
40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	118.58 29.16	43.74
40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	124.94 32.44	48.66
40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	156.18 41.52	62.29
40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	184.81 48.66	73.00
40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	221.34 58.25	87.37
40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	288.13 72.88	109.31
40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	481.85 120.21	180.31
40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	639.32 160.28	240.42
40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	942.19 240.42	360.61
40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	1,095.94 280.49	420.72
40 05 23 23-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	1,259.80 319.95	479.92
40 05 23 23-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	1,587.45 400.69	601.03
40 05 23 23-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	2,200.18 560.97	841.46
40 05 23 23-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap For Work In Restricted Working Space, Add	3,318.78 801.39	1,202.07
40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)		
40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)		
40 05 23 23-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	22.61 3.28	5.47
40 05 23 23-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	27.49 4.01	6.68
40 05 23 23-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	33.60 4.70	7.89
40 05 23 23-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	42.00 5.88	9.71
40 05 23 23-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	48.33 6.62	10.93
40 05 23 23-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	61.84 8.21	13.97
40 05 23 23-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	76.46 9.38	15.79
40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	74.99 10.56	17.62
40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	122.14 12.50	20.65
40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	189.16 16.41	27.33
40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	332.47 30.60	47.37
40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	419.50 33.66	52.36
40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting For Work In Restricted Working Space, Add	521.61 37.40	57.97
40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0834)		
40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow For Work In Restricted Working Space, Add	146.71 41.54	62.31
40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow For Work In Restricted Working Space, Add	155.22 44.09	66.14
40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow For Work In Restricted Working Space, Add	170.99 48.46	72.69
40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow For Work In Restricted Working Space, Add	186.25 52.81	79.22
40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow For Work In Restricted Working Space, Add	205.41 58.32	87.48
40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow For Work In Restricted Working Space, Add	231.55 64.88	97.33
40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow For Work In Restricted Working Space, Add	308.27 83.04	124.57

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	365.35 97.33	145.99
40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	463.45 116.49	174.73
40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	714.76 145.52	218.28
40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,233.17 240.42	360.63
40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,011.59 320.56	480.82
40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,868.80 480.83	721.25
40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,209.43 560.97	841.46
40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,892.60 639.89	959.83
40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,968.95 801.39	1,202.09
40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,713.28 1,121.94	1,682.91
40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	9,741.69 1,602.77	2,404.16
40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0834)		
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	149.76 41.54	62.31
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	158.27 44.09	66.14
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	172.82 48.46	72.69
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	187.14 52.81	79.22
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	207.24 58.32	87.48
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	231.55 64.88	97.33
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	308.27 83.04	124.57
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	353.44 97.33	145.99
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	440.84 116.49	174.73
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	621.91 145.52	218.28
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,069.58 240.42	360.63
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,634.58 320.56	480.82
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,364.09 480.83	721.25
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,687.07 560.97	841.46
40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,035.62 639.89	959.83
40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,902.07 801.39	1,202.09
40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,305.95 1,121.94	1,682.91
40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,862.25 1,602.77	2,404.16
40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)		
40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	198.59 52.80	79.20
40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	238.64 64.81	97.22
40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	265.33 72.82	109.23
40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	305.46 83.04	124.57
40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	319.73 89.14	133.71
40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	348.51 97.22	145.83
40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	433.40 116.49	174.73
40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	535.50 145.99	218.99
40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	619.45 163.85	245.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	971.02 218.46	327.68
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	1,666.90 320.56	480.82
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	2,799.85 480.83	721.25
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	3,443.98 601.04	901.56
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	4,920.31 722.28	1,083.43
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	6,095.32 881.11	1,321.66
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	7,893.04 1,121.94	1,682.91
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	10,256.37 1,476.24	2,214.37
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee..... For Work In Restricted Working Space, Add	14,705.63 2,243.89	3,365.83
40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)		
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	192.23 44.11	66.16
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	225.37 54.05	81.08
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	295.29 60.73	91.10
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	287.28 69.23	103.85
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	295.03 74.40	111.59
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	403.73 81.08	121.61
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	404.58 97.19	145.76
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	540.19 121.46	182.20
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	752.78 138.79	208.18
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	1,266.20 200.35	300.52
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	2,655.55 267.13	400.70
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	3,506.49 400.69	601.03
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	3,986.55 481.39	722.08
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	4,940.43 587.20	880.80
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	6,383.31 747.96	1,121.95
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	9,106.07 984.16	1,476.23
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee..... For Work In Restricted Working Space, Add	14,260.21 1,494.59	2,241.89
40 05 23 23-0924 Type 316, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0834)		
40 05 23 23-0925 EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	151.73 40.11	60.17
40 05 23 23-0926 EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	166.77 43.71	65.56
40 05 23 23-0927 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	182.84 48.46	72.69
40 05 23 23-0928 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	194.97 52.81	79.22
40 05 23 23-0929 EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	209.68 58.32	87.48
40 05 23 23-0930 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	282.33 72.88	109.31
40 05 23 23-0931 EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	304.05 82.97	124.45
40 05 23 23-0932 EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	351.57 97.22	145.83
40 05 23 23-0933 EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	482.21 123.77	185.66
40 05 23 23-0934 EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	805.05 192.33	288.50
40 05 23 23-0935 EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	1,078.82 240.42	360.63
40 05 23 23-0936 EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	1,368.70 320.56	480.82
40 05 23 23-0937 EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... For Work In Restricted Working Space, Add	1,981.25 420.73	631.09

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0938 EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,283.04 479.46	719.19
40 05 23 23-0939 EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,048.74 601.04	901.56
40 05 23 23-0940 EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,134.42 801.39	1,202.09
40 05 23 23-0941 EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,932.17 1,202.08	1,803.13
40 05 23 23-0942 EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	186.24 40.11	60.17
40 05 23 23-0943 EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	198.23 43.71	65.56
40 05 23 23-0944 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	229.94 48.46	72.69
40 05 23 23-0945 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	238.03 52.81	79.22
40 05 23 23-0946 EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	255.50 58.32	87.48
40 05 23 23-0947 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	304.93 72.88	109.31
40 05 23 23-0948 EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	392.32 82.97	124.45
40 05 23 23-0949 EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	427.32 97.22	145.83
40 05 23 23-0950 EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	606.52 123.77	185.66
40 05 23 23-0951 EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	898.07 192.33	288.50
40 05 23 23-0952 EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,283.32 240.42	360.63
40 05 23 23-0953 EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,777.73 320.56	480.82
40 05 23 23-0954 EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,668.47 420.73	631.09
40 05 23 23-0955 EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,074.17 479.46	719.19
40 05 23 23-0956 EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,130.22 601.04	901.56
40 05 23 23-0957 EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,311.06 801.39	1,202.09
40 05 23 23-0958 EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	7,962.18 1,202.08	1,803.13
40 05 23 23-0959 Type 316, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0834)		
40 05 23 23-0960 EA 1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	83.29 20.77	31.16
40 05 23 23-0961 EA 3/4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	91.21 22.05	33.06
40 05 23 23-0962 EA 1", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	100.92 24.23	36.34
40 05 23 23-0963 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	115.33 26.40	39.61
40 05 23 23-0964 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	114.00 29.16	43.74
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	129.21 32.44	48.66
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	161.73 41.52	62.29
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	185.73 48.66	73.00
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	228.06 58.25	87.37
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	316.23 72.88	109.31
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	534.63 120.21	180.31
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	716.99 160.28	240.42
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,069.23 240.42	360.61
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,219.06 280.49	420.72
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,370.07 319.95	479.92
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,748.92 400.69	601.03
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,403.45 560.97	841.46
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	3,714.64 801.39	1,202.07

40 05 23 23-0978 Valves (40 05 23 23-0231)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0979			Gate Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0980	EA		1/2" Gate Valve, Stainless Steel, Flanged	710.98	62.48
			For Work In Restricted Working Space, Add	23.43	
			For Class 200, Deduct	-169.29	
			For Class 300, Add	594.90	
40 05 23 23-0981	EA		3/4" Gate Valve, Stainless Steel, Flanged	772.36	65.09
			For Work In Restricted Working Space, Add	27.34	
			For Class 200, Deduct	-182.23	
			For Class 300, Add	640.36	
40 05 23 23-0982	EA		1" Gate Valve, Stainless Steel, Flanged	951.68	97.63
			For Work In Restricted Working Space, Add	36.85	
			For Class 200, Deduct	-221.72	
			For Class 300, Add	779.13	
40 05 23 23-0983	EA		1-1/4" Gate Valve, Stainless Steel, Flanged	1,200.19	113.91
			For Work In Restricted Working Space, Add	42.45	
			For Class 200, Deduct	-283.20	
			For Class 300, Add	995.16	
40 05 23 23-0984	EA		1-1/2" Gate Valve, Stainless Steel, Flanged	1,352.81	143.40
			For Work In Restricted Working Space, Add	53.77	
			For Class 200, Deduct	-313.93	
			For Class 300, Add	1,103.16	
40 05 23 23-0985	EA		2" Gate Valve, Stainless Steel, Flanged	1,605.81	173.54
			For Work In Restricted Working Space, Add	65.09	
			For Class 200, Deduct	-371.51	
			For Class 300, Add	1,305.50	
40 05 23 23-0986	EA		2-1/2" Gate Valve, Stainless Steel, Flanged	2,308.72	188.76
			For Work In Restricted Working Space, Add	71.01	
			For Class 300, Add	1,947.70	
40 05 23 23-0987	EA		3" Gate Valve, Stainless Steel, Flanged	2,600.09	221.32
			For Work In Restricted Working Space, Add	83.10	
			For Class 300, Add	2,183.71	
40 05 23 23-0988	EA		4" Gate Valve, Stainless Steel, Flanged	3,436.74	371.03
			For Work In Restricted Working Space, Add	139.48	
			For Class 300, Add	2,793.49	
40 05 23 23-0989	EA		6" Gate Valve, Stainless Steel, Flanged	5,753.63	468.67
			For Work In Restricted Working Space, Add	176.38	
			For Class 300, Add	4,855.76	
40 05 23 23-0990	EA		8" Gate Valve, Stainless Steel, Flanged	12,565.07	598.85
			For Work In Restricted Working Space, Add	223.17	
			For Class 300, Add	11,111.89	
40 05 23 23-0991	EA		10" Gate Valve, Stainless Steel, Flanged	17,711.55	729.04
			For Work In Restricted Working Space, Add	273.39	
			For Class 300, Add	15,792.24	
40 05 23 23-0992	EA		12" Gate Valve, Stainless Steel, Flanged	26,672.53	885.25
			For Work In Restricted Working Space, Add	331.38	
			For Class 300, Add	24,033.86	
40 05 23 23-0993			Globe Valves, Class 150 (40 05 23 23-0978)		
40 05 23 23-0994	EA		1/2" Globe Valve, Stainless Steel, Flanged	972.13	62.48
			For Work In Restricted Working Space, Add	23.43	
			For Class 200, Deduct	-239.15	
			For Class 300, Add	840.38	
40 05 23 23-0995	EA		3/4" Globe Valve, Stainless Steel, Flanged	1,075.84	65.09
			For Work In Restricted Working Space, Add	27.34	
			For Class 200, Deduct	-263.41	
			For Class 300, Add	925.63	
40 05 23 23-0996	EA		1" Globe Valve, Stainless Steel, Flanged	1,340.75	97.63
			For Work In Restricted Working Space, Add	36.85	
			For Class 200, Deduct	-325.80	
			For Class 300, Add	1,144.85	
40 05 23 23-0997	EA		1-1/2" Globe Valve, Stainless Steel, Flanged	1,993.18	143.40
			For Work In Restricted Working Space, Add	53.77	
			For Class 200, Deduct	-485.23	
			For Class 300, Add	1,705.10	
40 05 23 23-0998	EA		2" Globe Valve, Stainless Steel, Flanged	2,432.59	173.54
			For Work In Restricted Working Space, Add	65.09	
			For Class 200, Deduct	-592.68	
			For Class 300, Add	2,082.67	
40 05 23 23-0999	EA		2-1/2" Globe Valve, Stainless Steel, Flanged	4,901.15	188.76
			For Work In Restricted Working Space, Add	71.01	
			For Class 300, Add	4,384.58	
40 05 23 23-1000	EA		3" Globe Valve, Stainless Steel, Flanged	5,071.01	221.32
			For Work In Restricted Working Space, Add	83.10	
			For Class 300, Add	4,506.38	
40 05 23 23-1001	EA		4" Globe Valve, Stainless Steel, Flanged	6,036.35	371.03
			For Work In Restricted Working Space, Add	139.48	
			For Class 300, Add	5,237.13	
40 05 23 23-1002	EA		6" Globe Valve, Stainless Steel, Flanged	11,147.70	468.67
			For Work In Restricted Working Space, Add	176.38	
			For Class 300, Add	9,926.18	
40 05 23 23-1003			Check Valves, Class 150 (40 05 23 23-0978)		

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1004	EA		2-1/2" Check Valve, Stainless Steel, Flanged.....	2,209.29	188.76
			For Work In Restricted Working Space, Add	71.01	
			For Class 300, Add	1,854.23	
40 05 23 23-1005	EA		3" Check Valve, Stainless Steel, Flanged.....	2,311.09	221.32
			For Work In Restricted Working Space, Add	83.10	
			For Class 300, Add	1,912.05	
40 05 23 23-1006	EA		4" Check Valve, Stainless Steel, Flanged.....	3,630.60	371.03
			For Work In Restricted Working Space, Add	139.48	
			For Class 300, Add	2,975.72	
40 05 23 23-1007	EA		6" Check Valve, Stainless Steel, Flanged.....	6,245.71	468.67
			For Work In Restricted Working Space, Add	176.38	
			For Class 300, Add	5,318.31	
40 05 23 23-1008	EA		8" Check Valve, Stainless Steel, Flanged.....	10,981.78	598.85
			For Work In Restricted Working Space, Add	223.17	
			For Class 300, Add	9,623.60	
40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings (40 05 23 23-0231)					
40 05 23 23-1010	EA		1/2", Stainless Steel Thread-o-let Fitting.....	99.52	37.80
			For Work In Restricted Working Space, Add	25.20	
40 05 23 23-1011	EA		3/4", Stainless Steel Thread-o-let Fitting.....	131.39	50.40
			For Work In Restricted Working Space, Add	33.59	
40 05 23 23-1012	EA		1", Stainless Steel Thread-o-let Fitting.....	161.98	62.48
			For Work In Restricted Working Space, Add	41.66	
40 05 23 23-1013	EA		1-1/4", Stainless Steel Thread-o-let Fitting.....	232.36	88.42
			For Work In Restricted Working Space, Add	58.95	
40 05 23 23-1014	EA		1-1/2", Stainless Steel Thread-o-let Fitting.....	257.45	99.72
			For Work In Restricted Working Space, Add	66.48	
40 05 23 23-1015	EA		2", Stainless Steel Thread-o-let Fitting.....	322.31	126.67
			For Work In Restricted Working Space, Add	84.44	
40 05 23 23-1016	EA		2-1/2", Stainless Steel Thread-o-let Fitting.....	570.91	195.28
			For Work In Restricted Working Space, Add	130.19	
40 05 23 23-1017	EA		3", Stainless Steel Thread-o-let Fitting.....	762.77	249.29
			For Work In Restricted Working Space, Add	166.19	
40 05 23 23-1018	EA		4", Stainless Steel Thread-o-let Fitting.....	1,003.18	312.44
			For Work In Restricted Working Space, Add	208.30	
40 05 23 23-1019 Stainless Steel Flanges (40 05 23 23-0231)					
40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)					
40 05 23 23-1021	EA		1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	76.09	21.00
			For Work In Restricted Working Space, Add	12.60	
40 05 23 23-1022	EA		3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	93.87	28.00
			For Work In Restricted Working Space, Add	16.80	
40 05 23 23-1023	EA		1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	111.86	34.72
			For Work In Restricted Working Space, Add	20.83	
40 05 23 23-1024	EA		1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	152.05	49.13
			For Work In Restricted Working Space, Add	29.48	
40 05 23 23-1025	EA		1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	164.60	55.40
			For Work In Restricted Working Space, Add	33.24	
40 05 23 23-1026	EA		2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	211.22	70.36
			For Work In Restricted Working Space, Add	42.22	
40 05 23 23-1027	EA		2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	315.47	108.45
			For Work In Restricted Working Space, Add	65.09	
40 05 23 23-1028	EA		3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	380.03	221.32
			For Work In Restricted Working Space, Add	83.10	
40 05 23 23-1029	EA		4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange.....	488.07	173.54
			For Work In Restricted Working Space, Add	104.15	
40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)					
40 05 23 23-1031	EA		1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	95.80	21.00
			For Work In Restricted Working Space, Add	12.60	
40 05 23 23-1032	EA		3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	109.79	28.00
			For Work In Restricted Working Space, Add	16.80	
40 05 23 23-1033	EA		1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	123.23	34.72
			For Work In Restricted Working Space, Add	20.83	
40 05 23 23-1034	EA		1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	180.86	49.13
			For Work In Restricted Working Space, Add	29.48	
40 05 23 23-1035	EA		1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	193.41	55.40
			For Work In Restricted Working Space, Add	33.24	
40 05 23 23-1036	EA		2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	240.76	70.36
			For Work In Restricted Working Space, Add	42.22	
40 05 23 23-1037	EA		2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	381.40	108.45
			For Work In Restricted Working Space, Add	65.09	
40 05 23 23-1038	EA		3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	447.45	221.32
			For Work In Restricted Working Space, Add	83.10	
40 05 23 23-1039	EA		4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange.....	591.88	173.54
			For Work In Restricted Working Space, Add	104.15	
40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)					



Process Interconnections		40
Common Work Results For Process Interconnections		40 05
Stainless Steel Process Pipe and Tubing		40 05 23

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MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
40 05 23 23-1041	EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	103.33	20.77	31.14
40 05 23 23-1042	EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	111.37	22.05	33.06
40 05 23 23-1043	EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	124.70	24.23	36.34
40 05 23 23-1044	EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	151.00	26.43	39.63
40 05 23 23-1045	EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	160.01	29.13	43.69
40 05 23 23-1046	EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	177.89	32.45	48.67
40 05 23 23-1047	EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	243.65	41.49	62.24
40 05 23 23-1048	EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	277.11	48.58	72.86
40 05 23 23-1049	EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	354.66	58.21	87.31
40 05 23 23-1050	EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	519.73	72.73	109.09
40 05 23 23-1051	EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	870.42	120.21	180.31
40 05 23 23-1052	EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	1,227.47	160.28	240.41
40 05 23 23-1053	EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	1,883.25	240.42	360.61
40 05 23 23-1054	EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	2,340.84	280.49	420.72
40 05 23 23-1055	EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	2,901.07	319.95	479.92
40 05 23 23-1056	EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	3,564.27	400.69	601.03
40 05 23 23-1057	EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	4,646.45	560.97	841.46
40 05 23 23-1058	EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange..... For Work In Restricted Working Space, Add	6,605.91	801.39	1,202.07
40 05 23 23-1059	300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)			
40 05 23 23-1060	EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	126.83	20.77	31.14
40 05 23 23-1061	EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	131.08	22.05	33.06
40 05 23 23-1062	EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	138.36	24.23	36.34
40 05 23 23-1063	EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	177.47	26.43	39.63
40 05 23 23-1064	EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	186.48	29.13	43.69
40 05 23 23-1065	EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	200.61	32.45	48.67
40 05 23 23-1066	EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	283.02	41.49	62.24
40 05 23 23-1067	EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	321.04	48.58	72.86
40 05 23 23-1068	EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	457.67	58.21	87.31
40 05 23 23-1069	EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	636.39	72.73	109.09
40 05 23 23-1070	EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	1,161.34	120.21	180.31
40 05 23 23-1071	EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	1,611.60	160.28	240.41
40 05 23 23-1072	EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	2,371.19	240.42	360.61
40 05 23 23-1073	EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	3,112.16	280.49	420.72
40 05 23 23-1074	EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	3,823.49	319.95	479.92
40 05 23 23-1075	EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	4,877.76	400.69	601.03
40 05 23 23-1076	EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	6,327.00	560.97	841.46
40 05 23 23-1077	EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... For Work In Restricted Working Space, Add	9,201.43	801.39	1,202.07
40 05 23 23-1078	150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)			
40 05 23 23-1079	EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange..... For Work In Restricted Working Space, Add	168.76	41.54	62.30
40 05 23 23-1080	EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange..... For Work In Restricted Working Space, Add	178.04	44.09	66.13
40 05 23 23-1081	EA 1", 150#, Type 304 Stainless Steel Slip-On Flange..... For Work In Restricted Working Space, Add	195.63	48.46	72.69

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	222.41 52.86	79.28
40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	240.41 58.26	87.38
40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	276.20 64.90	97.34
40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	360.74 82.99	124.47
40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	414.07 97.16	145.73
40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	510.82 116.42	174.63
40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	672.00 145.46	218.18
40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,155.21 240.42	360.61
40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,617.79 320.56	480.82
40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,414.19 480.83	721.23
40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	183.92 41.54	62.30
40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	192.43 44.09	66.13
40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	207.00 48.46	72.69
40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	245.91 52.86	79.28
40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	263.91 58.26	87.38
40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	292.08 64.90	97.34
40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	419.86 82.99	124.47
40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	473.15 97.16	145.73
40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	592.63 116.42	174.63
40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	903.07 145.46	218.18
40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,388.54 240.42	360.61
40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,993.58 320.56	480.82
40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,897.57 480.83	721.23
40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1107 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	60.02 8.31	12.45
40 05 23 23-1108 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	62.73 8.82	13.22
40 05 23 23-1109 EA 1", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	67.93 9.69	14.53
40 05 23 23-1110 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	86.73 10.79	16.18
40 05 23 23-1111 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	99.36 14.57	21.86
40 05 23 23-1112 EA 2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	116.84 16.18	24.27
40 05 23 23-1113 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	158.74 20.81	31.20
40 05 23 23-1114 EA 3", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	195.66 29.15	43.73
40 05 23 23-1115 EA 4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	299.81 48.57	72.85
40 05 23 23-1116 EA 6", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	409.72 62.46	93.68
40 05 23 23-1117 EA 8", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	618.29 74.80	112.19
40 05 23 23-1118 EA 10", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	940.13 89.75	134.63
40 05 23 23-1119 EA 12", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,241.46 112.20	168.29
40 05 23 23-1120 EA 14", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,577.17 140.24	210.37
40 05 23 23-1121 EA 16", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,026.16 159.98	239.96
40 05 23 23-1122 EA 18", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,400.24 200.35	300.52



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1123	EA	20", 150#, Type 304 Stainless Steel Raised Face Blind Flange	.....	3,194.27	420.72
		For Work In Restricted Working Space, Add		280.49	
40 05 23 23-1124	EA	24", 150#, Type 304 Stainless Steel Raised Face Blind Flange	.....	4,648.77	601.03
		For Work In Restricted Working Space, Add		400.69	
40 05 23 23-1125 300#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)					
40 05 23 23-1126	EA	1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	75.44	12.45
		For Work In Restricted Working Space, Add		8.31	
40 05 23 23-1127	EA	3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	77.15	13.22
		For Work In Restricted Working Space, Add		8.82	
40 05 23 23-1128	EA	1", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	80.06	14.53
		For Work In Restricted Working Space, Add		9.69	
40 05 23 23-1129	EA	1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	101.11	16.18
		For Work In Restricted Working Space, Add		10.79	
40 05 23 23-1130	EA	1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	113.74	21.86
		For Work In Restricted Working Space, Add		14.57	
40 05 23 23-1131	EA	2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	124.41	24.27
		For Work In Restricted Working Space, Add		16.18	
40 05 23 23-1132	EA	2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	211.78	31.20
		For Work In Restricted Working Space, Add		20.81	
40 05 23 23-1133	EA	3", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	245.29	43.73
		For Work In Restricted Working Space, Add		29.15	
40 05 23 23-1134	EA	4", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	361.91	72.85
		For Work In Restricted Working Space, Add		48.57	
40 05 23 23-1135	EA	6", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	665.78	93.68
		For Work In Restricted Working Space, Add		62.46	
40 05 23 23-1136	EA	8", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	924.36	112.19
		For Work In Restricted Working Space, Add		74.80	
40 05 23 23-1137	EA	10", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	1,312.86	134.63
		For Work In Restricted Working Space, Add		89.75	
40 05 23 23-1138	EA	12", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	1,813.46	168.29
		For Work In Restricted Working Space, Add		112.20	
40 05 23 23-1139	EA	14", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	2,531.20	210.37
		For Work In Restricted Working Space, Add		140.24	
40 05 23 23-1140	EA	16", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	3,230.66	239.96
		For Work In Restricted Working Space, Add		159.98	
40 05 23 23-1141	EA	18", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	4,213.00	300.52
		For Work In Restricted Working Space, Add		200.35	
40 05 23 23-1142	EA	20", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	5,345.01	420.72
		For Work In Restricted Working Space, Add		280.49	
40 05 23 23-1143	EA	24", 300#, Type 304 Stainless Steel Raised Face Blind Flange	.....	8,186.21	601.03
		For Work In Restricted Working Space, Add		400.69	
40 05 23 23-1144 150#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)					
40 05 23 23-1145	EA	1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	89.75	21.00
		For Work In Restricted Working Space, Add		12.60	
40 05 23 23-1146	EA	3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	111.32	28.00
		For Work In Restricted Working Space, Add		16.80	
40 05 23 23-1147	EA	1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	128.51	34.72
		For Work In Restricted Working Space, Add		20.83	
40 05 23 23-1148	EA	1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	177.03	49.13
		For Work In Restricted Working Space, Add		29.48	
40 05 23 23-1149	EA	1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	189.58	55.40
		For Work In Restricted Working Space, Add		33.24	
40 05 23 23-1150	EA	2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	238.50	70.36
		For Work In Restricted Working Space, Add		42.22	
40 05 23 23-1151	EA	2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	354.88	108.45
		For Work In Restricted Working Space, Add		65.09	
40 05 23 23-1152	EA	3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	430.81	221.32
		For Work In Restricted Working Space, Add		83.10	
40 05 23 23-1153	EA	4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	559.28	173.54
		For Work In Restricted Working Space, Add		104.15	
40 05 23 23-1154 300#, Type 316 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)					
40 05 23 23-1155	EA	1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	115.50	21.00
		For Work In Restricted Working Space, Add		12.60	
40 05 23 23-1156	EA	3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	129.49	28.00
		For Work In Restricted Working Space, Add		16.80	
40 05 23 23-1157	EA	1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	142.93	34.72
		For Work In Restricted Working Space, Add		20.83	
40 05 23 23-1158	EA	1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	218.74	49.13
		For Work In Restricted Working Space, Add		29.48	
40 05 23 23-1159	EA	1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	231.29	55.40
		For Work In Restricted Working Space, Add		33.24	
40 05 23 23-1160	EA	2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	274.09	70.36
		For Work In Restricted Working Space, Add		42.22	
40 05 23 23-1161	EA	2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	456.39	108.45
		For Work In Restricted Working Space, Add		65.09	
40 05 23 23-1162	EA	3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange	.....	523.98	221.32
		For Work In Restricted Working Space, Add		83.10	

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1163	EA	4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	713.83 104.15	173.54
40 05 23 23-1164 150#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)				
40 05 23 23-1165	EA	1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	120.74 20.77	31.14
40 05 23 23-1166	EA	3/4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	128.82 22.05	33.06
40 05 23 23-1167	EA	1", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	144.40 24.23	36.34
40 05 23 23-1168	EA	1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	176.75 26.43	39.63
40 05 23 23-1169	EA	1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	185.76 29.13	43.69
40 05 23 23-1170	EA	2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	204.40 32.45	48.67
40 05 23 23-1171	EA	2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	288.30 41.49	62.24
40 05 23 23-1172	EA	3", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	317.25 48.58	72.86
40 05 23 23-1173	EA	4", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	422.85 58.21	87.31
40 05 23 23-1174	EA	6", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	637.92 72.73	109.09
40 05 23 23-1175	EA	8", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,053.02 120.21	180.31
40 05 23 23-1176	EA	10", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,532.05 160.28	240.41
40 05 23 23-1177	EA	12", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,285.59 240.42	360.61
40 05 23 23-1178	EA	14", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,674.06 280.49	420.72
40 05 23 23-1179	EA	16", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,335.90 319.95	479.92
40 05 23 23-1180	EA	18", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,092.49 400.69	601.03
40 05 23 23-1181	EA	20", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,304.54 560.97	841.46
40 05 23 23-1182	EA	24", 150#, Type 316 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	7,538.47 801.39	1,202.07
40 05 23 23-1183 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)				
40 05 23 23-1184	EA	1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	149.56 20.77	31.14
40 05 23 23-1185	EA	3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	153.81 22.05	33.06
40 05 23 23-1186	EA	1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	161.09 24.23	36.34
40 05 23 23-1187	EA	1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	208.58 26.43	39.63
40 05 23 23-1188	EA	1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	217.59 29.13	43.69
40 05 23 23-1189	EA	2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	238.50 32.45	48.67
40 05 23 23-1190	EA	2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	348.19 41.49	62.24
40 05 23 23-1191	EA	3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	382.41 48.58	72.86
40 05 23 23-1192	EA	4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	571.31 58.21	87.31
40 05 23 23-1193	EA	6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	917.47 72.73	109.09
40 05 23 23-1194	EA	8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,448.51 120.21	180.31
40 05 23 23-1195	EA	10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,076.77 160.28	240.41
40 05 23 23-1196	EA	12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,054.54 240.42	360.61
40 05 23 23-1197	EA	14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,106.07 280.49	420.72
40 05 23 23-1198	EA	16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,082.07 319.95	479.92
40 05 23 23-1199	EA	18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	6,494.76 400.69	601.03
40 05 23 23-1200	EA	20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,361.69 560.97	841.46
40 05 23 23-1201	EA	24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	12,182.46 801.39	1,202.07
40 05 23 23-1202 150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)				



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1203	EA	1/2"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	177.87 41.54	62.30
40 05 23 23-1204	EA	3/4"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	191.70 44.09	66.13
40 05 23 23-1205	EA	1"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	211.28 48.46	72.69
40 05 23 23-1206	EA	1-1/4"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	279.50 52.86	79.28
40 05 23 23-1207	EA	1-1/2"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	258.59 58.26	87.38
40 05 23 23-1208	EA	2"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	280.72 64.90	97.34
40 05 23 23-1209	EA	2-1/2"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	357.72 82.99	124.47
40 05 23 23-1210	EA	3"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	439.82 97.16	145.73
40 05 23 23-1211	EA	4"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	565.34 116.42	174.63
40 05 23 23-1212	EA	6"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	753.04 145.46	218.18
40 05 23 23-1213	EA	8"	150#, Type 316 Stainless Steel Slip-On Flange For Work In Restricted Working Space, Add	1,322.62 240.42	360.61
40 05 23 23-1214	EA	10"	150#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,846.61 320.56	480.82
40 05 23 23-1215	EA	12"	150#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	2,720.26 480.83	721.23
40 05 23 23-1216			300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)		
40 05 23 23-1217	EA	1/2"	300#, Type 316 Stainless Steel Raised Neck Slip-On Flange For Work In Restricted Working Space, Add	199.07 41.54	62.30
40 05 23 23-1218	EA	3/4"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	207.58 44.09	66.13
40 05 23 23-1219	EA	1"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	222.15 48.46	72.69
40 05 23 23-1220	EA	1-1/4"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	275.45 52.86	79.28
40 05 23 23-1221	EA	1-1/2"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	293.45 58.26	87.38
40 05 23 23-1222	EA	2"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	320.01 64.90	97.34
40 05 23 23-1223	EA	2-1/2"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	485.75 82.99	124.47
40 05 23 23-1224	EA	3"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	540.57 97.16	145.73
40 05 23 23-1225	EA	4"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	697.16 116.42	174.63
40 05 23 23-1226	EA	6"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,055.36 145.46	218.18
40 05 23 23-1227	EA	8"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	1,545.39 240.42	360.61
40 05 23 23-1228	EA	10"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	2,504.20 320.56	480.82
40 05 23 23-1229	EA	12"	300#, Type 316 Stainless Steel Raised Face Slip-On Flange For Work In Restricted Working Space, Add	3,347.59 480.83	721.23
40 05 23 23-1230			150#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1231	EA	1/2"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	67.10 8.31	12.45
40 05 23 23-1232	EA	3/4"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	75.62 8.82	13.22
40 05 23 23-1233	EA	1"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	85.34 9.69	14.53
40 05 23 23-1234	EA	1-1/4"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	100.35 10.79	16.18
40 05 23 23-1235	EA	1-1/2"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	112.98 14.57	21.86
40 05 23 23-1236	EA	2"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	139.56 16.18	24.27
40 05 23 23-1237	EA	2-1/2"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	194.37 20.81	31.20
40 05 23 23-1238	EA	3"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	235.07 29.15	43.73
40 05 23 23-1239	EA	4"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	366.47 48.57	72.85
40 05 23 23-1240	EA	6"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	516.56 62.46	93.68
40 05 23 23-1241	EA	8"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	873.59 74.80	112.19
40 05 23 23-1242	EA	10"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,141.67 89.75	134.63
40 05 23 23-1243	EA	12"	150#, Type 316 Stainless Steel Raised Face Blind Flange For Work In Restricted Working Space, Add	1,822.57 112.20	168.29

40 Process Interconnections**40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,172.12 140.24	210.37
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,826.56 159.98	239.96
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,329.05 200.35	300.52
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,405.57 280.49	420.72
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,425.07 400.69	601.03
40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges (40 05 23 23-1019)		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	101.19 8.31	12.45
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	102.90 8.82	13.22
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	105.81 9.69	14.53
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	156.44 10.79	16.18
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	169.07 14.57	21.86
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	187.28 16.18	24.27
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	308.77 20.81	31.20
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	344.16 29.15	43.73
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	528.59 48.57	72.85
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	949.93 62.46	93.68
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,218.34 74.80	112.19
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,167.47 89.75	134.63
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,644.58 112.20	168.29
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,807.76 140.24	210.37
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,899.19 159.98	239.96
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,405.92 200.35	300.52
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	8,072.91 280.49	420.72
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	12,423.74 400.69	601.03
40 05 23 23-1268 Type 316 Seamless Annealed Tubing (40 05 23 23)		
Note: For high-pressure air (8000 PSIG working pressure).		
40 05 23 23-1269 Type 316 Seamless Annealed Tubing (40 05 23 23-1268)		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness	20.52	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness	24.90	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness	29.96	
40 05 23 23-1273 Type 316 Seamless Annealed Tubing Fittings (40 05 23 23-1268)		
Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules	71.01	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules	71.84	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules	109.89	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	70.21	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	115.92	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules	87.51	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules	108.66	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	167.31	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	106.44	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	164.32	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules	104.30	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules	134.88	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules	223.35	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules	184.43	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules	227.15	
40 05 23 23-1289 Valves For High Pressure Air (5,000 PSIG) (40 05 23 23-1268)		
40 05 23 23-1290 Needle Valves (40 05 23 23-1289)		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	421.39	



MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
40 05 23 23-1292	EA	1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge	669.98	
40 05 23 23-1293		Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG (40 05 23 23-1289)		
40 05 23 23-1294	EA	1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction.....	404.06	
40 05 23 23-1295		Other Valves Working Pressure 6,000 PSI (40 05 23 23-1289)		
40 05 23 23-1296	EA	1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG	1,681.36	
40 05 23 23-1297	EA	1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back	420.37	
40 05 23 23-1298	EA	Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element.....	80.48	

END OF SECTION 40

40	40	Process Interconnections
	40 05	Common Work Results For Process Interconnections
	40 05 23	Stainless Steel Process Pipe and Tubing



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST

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Process Gas and Liquid Handling, Purification, and Storage Equipment		43	43
Liquid Handling Equipment		43 20	
Dry Location Liquid Pumps		43 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

43 Process Gas and Liquid Handling, Purification, and Storage Equipment

43 20 Liquid Handling Equipment ⁽⁴³⁾

43 23 Dry Location Liquid Pumps ^(43 20)

43 23 78 Controlled Volume Horizontal Reciprocating Pumps ^(43 23)

43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps ^(43 23 78)

43 23 78 31-0001 Diaphragm Pump ^(43 23 78 31)

43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI.....4,988.39

43 24 Suspended Liquid Pumps ^(43 20)

43 24 41 Archimedes Screw Pumps ^(43 24)

43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps ^(43 24 41)

43 24 41 23-0001 Positive Displacement Pump ^(43 24 41 23)

43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing.....4,104.54

43 40 Gas and Liquid Storage ⁽⁴³⁾

43 42 Pressurized Tanks And Vessels ^(43 40)

43 42 41 Metallic Specialty Pressure Tanks ^(43 42)

43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls ^(43 42 41)

43 42 41 00-0002	EA	250 Gallon Aboveground LP Gas Storage Tank.....	2,215.25	140.34
43 42 41 00-0003	EA	500 Gallon Aboveground LP Gas Storage Tank.....	4,098.44	210.52
43 42 41 00-0004	EA	1,000 Gallon Aboveground LP Gas Storage Tank.....	5,869.36	224.55

END OF SECTION 43

43	43	Process Gas and Liquid Handling, Purification, and Storage Equipment
	43 40	Gas and Liquid Storage
	43 42	Pressurized Tanks And Vessels



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Custom Standards And Assemblies	50	50
CALTRANS Custom Standards And Assemblies	50 89	
CALTRANS Construction Performance Requirements	50 89 80	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies ⁽⁵⁰⁾

Note: Use as directed by owner only.

50 89 80 CALTRANS Construction Performance Requirements ^(50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS ^(50 89 81)

50 89 81 01 PAYMENT ^(50 89 81)

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, specialty equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0003 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for specialty equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0043 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION	0.00

Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.

50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION ^(50 89 82)

50 89 82 12 TEMPORARY TRAFFIC CONTROL ^(50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN	1,698.11
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE	46.05
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE	13.00
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE	89.30
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE)	80.57
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT)	3.54
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE)	5.46
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE)	13.57
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT)	0.77
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED)	32.44
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	71.93
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR	25.53
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS	38.83
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE)	47.27
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER	3.54
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA)	2,990.92
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE	716.50

50 89 82 13 WATER POLLUTION CONTROL ^(50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN	568.32
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY	504.04
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT	2,255.36
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET	6.37
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	951.09
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH	5.28
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH	0.91
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	0.48
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER)	13.97
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW	0.34
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED	0.91
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER	0.57
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER	8.56
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION	88.19
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	8.82
Note: 12" Diameter, Type 1			
For >1,000 To 10,000, Deduct			-0.98
For >10,000, Deduct			-1.66
For 9" Diameter, Deduct			-1.08
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	6.94
Note: 12" Diameter, Type 2			
For >1,000 To 10,000, Deduct			-0.70
For >10,000, Deduct			-1.19
For 9" Diameter, Deduct			-1.08
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM	14.77
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE	10.24
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE	2.93
50 89 82 13-0020	LF	CALTRANS 130690 TEMPORARY STRAW BALE BARRIER	5.28
50 89 82 13-0021	EA	CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE	1,597.48
50 89 82 13-0022	SY	CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY	39.33
50 89 82 13-0023	EA	CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY	504.04
50 89 82 13-0024	EA	CALTRANS 131104 WATER QUALITY MONITORING REPORT	780.80
50 89 82 13-0025	EA	CALTRANS 131105 WATER QUALITY ANNUAL REPORT	837.76

50 Custom Standards And Assemblies
50 89 CALTRANS Custom Standards And Assemblies
50 89 80 CALTRANS Construction Performance Requirements



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 CALTRANS DIVISION III - GRADING (50 89 80)

50 89 83 17 GENERAL (50 89 83)

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001 ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE).....13,865.01

Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill

50 89 83 19 EARTHWORK (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY	CALTRANS 190101 ROADWAY EXCAVATION	23.14	
		For >1,000, Deduct	-3.47	
50 89 83 19-0002	CY	CALTRANS 190161 ROCK EXCAVATION	37.60	
50 89 83 19-0003	TON	CALTRANS 190185 SHOULDER BACKING	121.07	
50 89 83 19-0004	CY	CALTRANS 192037 STRUCTURE EXCAVATION (RETAINING WALL)	67.68	914.04
50 89 83 19-0005	CY	CALTRANS 192049 STRUCTURE EXCAVATION (SOLDIER PILE WALL)	102.47	322.12
50 89 83 19-0006	CY	CALTRANS 192502 SAND BEDDING.....	36.52	
		For Up To 8, Add	7.30	
		For >8 To 16, Add	3.65	
		For >16 To 64, Deduct	-2.70	
		For >64 To 96, Deduct	-4.53	
		For >96, Deduct	-6.35	
50 89 83 19-0007	CY	CALTRANS 193013 STRUCTURE BACKFILL (RETAINING WALL)	67.68	914.04
50 89 83 19-0008	CY	CALTRANS 193118 CONCRETE BACKFILL.....	257.33	
50 89 83 19-0009	CY	CALTRANS 198010 IMPORTED BORROW (CY)	66.60	
50 89 83 19-0010	TON	CALTRANS 198011 IMPORTED BORROW (TON)	93.25	
50 89 83 19-0011	SY	CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1.....	6.07	
		For Up To 50, Add	1.27	
		For >50 To 150, Add	0.95	
		For >150 To 250, Add	0.63	
		For >250 To 500, Add	0.31	
50 89 83 19-0012	SY	CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2.....	2.51	
		For Up To 50, Add	0.55	
		For >50 To 150, Add	0.41	
		For >150 To 250, Add	0.27	
		For >250 To 500, Add	0.13	
50 89 83 19-0013	SY	CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1.....	7.07	
		For Up To 50, Add	1.47	
		For >50 To 150, Add	1.10	
		For >150 To 250, Add	0.73	
		For >250 To 500, Add	0.36	
50 89 83 19-0014	SY	CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2.....	3.44	
		For Up To 50, Add	0.73	
		For >50 To 150, Add	0.55	
		For >150 To 250, Add	0.36	
		For >250 To 500, Add	0.18	
50 89 83 19-0015	SY	CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3.....	3.23	
		For Up To 50, Add	0.70	
		For >50 To 150, Add	0.52	
		For >150 To 250, Add	0.34	
		For >250 To 500, Add	0.17	
50 89 83 19-0016	SY	CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID	5.43	
		For Up To 50, Add	1.20	
		For >50 To 150, Add	0.89	
		For >150 To 250, Add	0.58	
		For >250 To 500, Add	0.29	
50 89 83 19-0017	SY	CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT	2.27	

50 89 83 20 LANDSCAPE (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF	CALTRANS 200114 ROCK BLANKET	16.48	
		For >5,000, Deduct	-2.19	
50 89 83 20-0002	SY	CALTRANS 200122 WEED GERMINATION	0.69	
50 89 83 20-0003	SY	CALTRANS 200123 CULTIVATION	3.06	
50 89 83 20-0004	LB	CALTRANS 202004 IRON SULFATE (LB).....	8.03	
50 89 83 20-0005	CY	CALTRANS 202006 SOIL AMENDMENT	125.17	
50 89 83 20-0006	EA	CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY	1,198.31	
50 89 83 20-0007	EA	CALTRANS 202027 RELOCATE WATER METER	1,198.31	
50 89 83 20-0008	EA	CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER	1,480.68	
50 89 83 20-0009	LB	CALTRANS 202037 ORGANIC FERTILIZER.....	8.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0010	EA		CALTRANS 202038 PACKET FERTILIZER.....	1.23	
50 89 83 20-0011	LB		CALTRANS 202039 SLOW-RELEASE FERTILIZER.....	4.20	
50 89 83 20-0012	EA		CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B).....	472.71	
50 89 83 20-0013	EA		CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B).....	881.62	
50 89 83 20-0014	EA		CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B).....	1,372.06	
50 89 83 20-0015	EA		CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B).....	2,144.78	
50 89 83 20-0016	EA		CALTRANS 204005 PLANT (GROUP E).....	4.71	
			For >100 To 1,000, Deduct	-0.26	
			For >1,000 To 5,000, Deduct	-0.41	
			For >5,000, Deduct	-0.53	
50 89 83 20-0017	EA		CALTRANS 204006 PLANT (GROUP F).....	2.47	
			For >100 To 1,000, Deduct	-0.16	
			For >1,000 To 5,000, Deduct	-0.25	
			For >5,000, Deduct	-0.32	
50 89 83 20-0018	EA		CALTRANS 204008 PLANT (GROUP H).....	6.94	
			For >10 To 100, Deduct	-0.69	
			For >100 To 1,000, Deduct	-1.56	
			For >1,000 To 10,000, Deduct	-2.43	
			For >10,000 To 25,000, Deduct	-3.47	
			For >25,000, Deduct	-4.86	
50 89 83 20-0019	EA		CALTRANS 204009 PLANT (GROUP I).....	25.66	
			For >100 To 1,000, Deduct	-1.75	
			For >1,000 To 5,000, Deduct	-2.85	
			For >5,000, Deduct	-3.49	
50 89 83 20-0020	EA		CALTRANS 204011 PLANT (GROUP K).....	649.34	
50 89 83 20-0021	EA		CALTRANS 204013 PLANT (GROUP M).....	8.54	
			For >100 To 1,000, Deduct	-0.50	
			For >1,000 To 5,000, Deduct	-0.78	
			For >5,000, Deduct	-0.99	
50 89 83 20-0022	EA		CALTRANS 204015 PLANT (GROUP S).....	9.53	
			For >100 To 1,000, Deduct	-0.60	
			For >1,000 To 5,000, Deduct	-0.96	
			For >5,000, Deduct	-1.20	
50 89 83 20-0023	EA		CALTRANS 204020 PLANT (GROUP P).....	8.08	
			For >100 To 1,000, Deduct	-0.46	
			For >1,000 To 5,000, Deduct	-0.72	
			For >5,000, Deduct	-0.92	
50 89 83 20-0024	EA		CALTRANS 204030 TRANSPLANT TREE.....	4,229.22	
			For >5 To 10, Deduct	-211.46	
			For >10 To 20, Deduct	-422.92	
			For >20, Deduct	-634.38	
50 89 83 20-0025	EA		CALTRANS 204035 PLANT (GROUP A).....	34.70	
50 89 83 20-0026	EA		CALTRANS 204036 PLANT (GROUP B).....	88.08	
50 89 83 20-0027	EA		CALTRANS 204038 PLANT (GROUP U).....	230.26	
50 89 83 20-0028	SY		CALTRANS 204045 SOD.....	21.02	
50 89 83 20-0029	SF		CALTRANS 205033 GRAVEL MULCH.....	1.42	
50 89 83 20-0030	SF		CALTRANS 205034 DECOMPOSED GRANITE.....	1.61	
50 89 83 20-0031	CY		CALTRANS 205035 WOOD MULCH.....	120.13	
			For >5 To 20, Deduct	-9.78	
			For >20 To 50, Deduct	-14.68	
			For >50, Deduct	-20.68	
50 89 83 20-0032	EA		CALTRANS 205051 FOLIAGE PROTECTOR.....	42.36	
50 89 83 20-0033	EA		CALTRANS 205052 ROOT PROTECTOR.....	29.98	
50 89 83 20-0034	LF		CALTRANS 205062 ROOT BARRIER.....	13.46	
50 89 83 20-0035	LF		CALTRANS 206005 EDGING.....	18.36	
50 89 83 20-0036	EA		CALTRANS 206561 3/4" REMOTE CONTROL VALVE.....	439.71	
50 89 83 20-0037	EA		CALTRANS 206562 1" REMOTE CONTROL VALVE.....	683.86	
50 89 83 20-0038	EA		CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE.....	751.28	
50 89 83 20-0039	EA		CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE.....	824.49	
50 89 83 20-0040	EA		CALTRANS 206565 2" REMOTE CONTROL VALVE.....	920.87	
50 89 83 20-0041	EA		CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE.....	1,451.15	
50 89 83 20-0042	EA		CALTRANS 206567 3" REMOTE CONTROL VALVE.....	1,981.43	
50 89 83 20-0043	EA		CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR.....	1,026.55	
50 89 83 20-0044	EA		CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY.....	360.21	
50 89 83 20-0045	EA		CALTRANS 206631 1" WYE STRAINER ASSEMBLY.....	391.05	
50 89 83 20-0046	EA		CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY.....	436.48	
50 89 83 20-0047	EA		CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY.....	463.58	
50 89 83 20-0048	EA		CALTRANS 206634 2" WYE STRAINER ASSEMBLY.....	553.66	
50 89 83 20-0049	EA		CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY.....	841.60	
50 89 83 20-0050	EA		CALTRANS 206636 3" WYE STRAINER ASSEMBLY.....	1,013.75	
50 89 83 20-0051	EA		CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	957.75	
50 89 83 20-0052	EA		CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,328.96	
50 89 83 20-0053	EA		CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,765.90	
50 89 83 20-0054	EA		CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	2,258.42	
50 89 83 20-0055	EA		CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	3,002.60	
50 89 83 20-0056	EA		CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	3,743.28	
50 89 83 20-0057	LF		CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE).....	12.75	
			For >1,000, Deduct	-0.64	
50 89 83 20-0058	LF		CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE).....	17.39	
			For >1,000, Deduct	-0.87	
50 89 83 20-0059	LF		CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE).....	21.44	
			For >1,000, Deduct	-1.07	
50 89 83 20-0060	LF		CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE).....	27.34	
			For >1,000, Deduct	-1.37	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0061 LF CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE).....	33.09	
For >1,000, Deduct	-1.65	
50 89 83 20-0062 LF CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE).....	45.86	
For >1,000, Deduct	-2.29	
50 89 83 20-0063 LF CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	89.57	
For >1,000, Deduct	-4.48	
50 89 83 20-0064 LF CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	143.54	
For >1,000, Deduct	-7.18	
50 89 83 20-0065 LF CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	61.71	
For >1,000, Deduct	-3.09	
50 89 83 20-0066 LF CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	14.03	
For >1,000, Deduct	-0.70	
50 89 83 20-0067 LF CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	16.11	
For >1,000, Deduct	-0.81	
50 89 83 20-0068 LF CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	19.17	
For >1,000, Deduct	-0.96	
50 89 83 20-0069 LF CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	22.64	
For >1,000, Deduct	-1.13	
50 89 83 20-0070 LF CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	26.35	
For >1,000, Deduct	-1.32	
50 89 83 20-0071 LF CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	33.26	
For >1,000, Deduct	-1.66	
50 89 83 20-0072 LF CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	49.21	
For >1,000, Deduct	-2.46	
50 89 83 20-0073 LF CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	68.52	
For >1,000, Deduct	-3.43	
50 89 83 20-0074 LF CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	99.05	
For >1,000, Deduct	-4.95	
50 89 83 20-0075 LF CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	60.21	
50 89 83 20-0076 LF CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	75.76	
50 89 83 20-0077 LF CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	93.58	
50 89 83 20-0078 LF CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	136.58	
50 89 83 20-0079 LF CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	341.75	
50 89 83 20-0080 LF CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	706.81	
50 89 83 20-0081 LF CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	40.35	
50 89 83 20-0082 LF CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	57.18	
50 89 83 20-0083 LF CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	71.07	
50 89 83 20-0084 LF CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	102.15	
50 89 83 20-0085 LF CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	2.75	
50 89 83 20-0086 LF CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	2.95	
50 89 83 20-0087 EA CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	4,004.45	
50 89 83 20-0088 EA CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	2,428.57	
50 89 83 20-0089 EA CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	2,558.28	
50 89 83 20-0090 EA CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	3,358.60	
50 89 83 20-0091 EA CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	3,641.16	
50 89 83 20-0092 EA CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	4,857.61	
50 89 83 20-0093 EA CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	10,439.54	
50 89 83 20-0094 EA CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	12,123.38	
50 89 83 20-0095 EA CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	13,111.53	
50 89 83 20-0096 EA CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	3,554.76	
50 89 83 20-0097 EA CALTRANS 208442 FLOW SENSOR.....	1,770.54	
50 89 83 20-0098 EA CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	96.45	14.38
50 89 83 20-0099 EA CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	59.81	14.38
50 89 83 20-0100 EA CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	58.76	14.38
50 89 83 20-0101 EA CALTRANS 208562 CAM COUPLER ASSEMBLY.....	490.96	
50 89 83 20-0102 EA CALTRANS 208569 1/2" GATE VALVE.....	324.97	
50 89 83 20-0103 EA CALTRANS 208570 3/4" GATE VALVE.....	345.76	
50 89 83 20-0104 EA CALTRANS 208572 1" GATE VALVE.....	377.88	
50 89 83 20-0105 EA CALTRANS 208573 1 1/4" GATE VALVE.....	417.13	
50 89 83 20-0106 EA CALTRANS 208574 1 1/2" GATE VALVE.....	444.82	
50 89 83 20-0107 EA CALTRANS 208575 2" GATE VALVE.....	507.02	
50 89 83 20-0108 EA CALTRANS 208576 2 1/2" GATE VALVE.....	821.44	
50 89 83 20-0109 EA CALTRANS 208588 3" GATE VALVE.....	1,449.49	
50 89 83 20-0110 EA CALTRANS 208589 4" GATE VALVE.....	1,940.23	
50 89 83 20-0111 EA CALTRANS 208590 6" GATE VALVE.....	2,782.21	
50 89 83 20-0112 EA CALTRANS 208591 8" GATE VALVE.....	4,251.03	
50 89 83 20-0113 LF CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.81	
For >1,000, Deduct	-0.34	
For Schedule 80, Add	0.16	
50 89 83 20-0114 LF CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	6.97	
For >1,000, Deduct	-0.35	
For Schedule 80, Add	0.21	
50 89 83 20-0115 LF CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.82	
For >1,000, Deduct	-0.39	
For Schedule 80, Add	0.33	
50 89 83 20-0116 LF CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.24	
For >1,000, Deduct	-0.46	
For Schedule 80, Add	0.49	
50 89 83 20-0117 LF CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.44	
For >1,000, Deduct	-0.47	
For Schedule 80, Add	0.66	



Custom Standards And Assemblies	50	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	11.11	
For >1,000, Deduct	-0.56	
For Schedule 80, Add	1.11	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	13.34	
For >1,000, Deduct	-0.67	
For Schedule 80, Add	1.44	
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	17.29	
For >1,000, Deduct	-0.86	
For Schedule 80, Add	2.02	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	21.68	
For >1,000, Deduct	-1.08	
For Schedule 80, Add	3.08	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	29.47	
For >1,000, Deduct	-1.47	
For Schedule 80, Add	6.87	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	35.31	
For >1,000, Deduct	-1.77	
For Schedule 80, Add	10.53	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	70.60	
For >1,000, Deduct	-3.53	
For Schedule 80, Add	32.74	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	11.68	
For >1,000, Deduct	-0.58	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	14.27	
For >1,000, Deduct	-0.71	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	17.29	
For >1,000, Deduct	-0.86	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	21.68	
For >1,000, Deduct	-1.08	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	29.89	
For >1,000, Deduct	-1.49	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE	952.25	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE	1,403.74	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE	1,123.64	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE	1,579.36	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4")	299.17	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1")	392.86	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4")	671.44	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2")	910.67	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2")	1,305.55	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE	575.07	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE	340.30	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE	364.96	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE	397.85	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE	448.50	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE	500.18	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE	569.92	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE	888.45	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE	1,528.71	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE	2,264.84	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE	3,465.29	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE	7,665.15	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE	306.49	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE	336.69	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE	348.69	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE	388.09	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE	409.11	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE	450.62	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE	505.38	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE)	35.31	
For >1,000, Deduct	-1.77	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT	49.09	
For >1,000, Deduct	-2.45	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT	69.74	
For >1,000, Deduct	-3.49	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	27.48	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	35.25	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	40.82	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	29.87	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	37.24	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	46.16	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	51.36	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT	26.97	
For >1,000, Deduct	-1.35	
50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT	31.65	
For >1,000, Deduct	-1.58	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT	36.58	
For >1,000, Deduct	-1.83	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT	50.17	
For >1,000, Deduct	-2.51	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT	68.10	
For >1,000, Deduct	-3.41	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT	97.12	
For >1,000, Deduct	-4.86	
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT	139.04	
For >1,000, Deduct	-6.95	
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT	183.47	
For >1,000, Deduct	-9.17	
50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT	233.66	
For >1,000, Deduct	-11.68	
50 89 83 21 EROSION CONTROL (50 89 83)		
Note: Includes applying permanent erosion control measures to the soil surface per CALTRAN Standard.		
50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL)	380.44	
50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY)	66.60	
50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON)	83.25	
50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT)	0.11	
50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE)	4,816.79	
For >5 To 20, Deduct	-341.60	
For >20 To 45, Deduct	-663.54	
For >45, Deduct	-1,086.23	
50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD)	0.39	
50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE)	1,877.00	
50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT)	0.10	
50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE)	4,529.68	
50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH)	0.53	
50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING)	1.96	
50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET)	0.64	
50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM)	1.66	
50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH	0.10	
50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL	8.82	
Note: 12" Diameter, Type 1		
For >1,000 To 10,000, Deduct	-0.98	
For >10,000, Deduct	-1.66	
For 9" Diameter, Deduct	-1.08	
50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL	6.94	
Note: 12" Diameter, Type 2		
For >1,000 To 10,000, Deduct	-0.70	
For >10,000, Deduct	-1.19	
For 9" Diameter, Deduct	-1.08	
50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK	11.92	
50 89 83 21-0018 SF CALTRANS 210420 STRAW	0.22	
50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED	0.10	
50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY)	96.58	
For >100 To 1,000, Deduct	-16.16	
For >1,000, Deduct	-24.77	
50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS	0.06	
50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)		
50 89 84 24 STABILIZED SOILS (50 89 84)		
50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL	12.46	
For 4% Lime Instead Of 5%, Deduct	-0.34	
For 6% Lime Instead Of 5%, Add	0.34	
50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL	12.38	
50 89 84 25 AGGREGATE SUBBASES (50 89 84)		
Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE	112.49	
50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE	110.51	
50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE	105.95	
50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE	105.90	
50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE	105.84	
50 89 84 26 AGGREGATE BASES (50 89 84)		
Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRAN Standard.		
50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE	111.91	
For Recycled Aggregate Base, Deduct	-6.71	
50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON)	112.43	
50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY)	110.51	
50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON)	106.20	
50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY)	105.95	
50 89 84 27 CEMENT TREATED BASES (50 89 84)		
Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRAN Standard.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 27-0001	TON		CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON).....	54.73	
			For Up To 500, Add	16.12	
			For >500 To 1,000, Add	5.47	
			For >5,000 To 10,000, Deduct	-2.08	
			For >10,000, Deduct	-3.56	
50 89 84 27-0002	CY		CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY).....	73.90	
			For Up To 500, Add	21.78	
			For >500 To 1,000, Add	7.39	
			For >5,000 To 10,000, Deduct	-2.81	
			For >10,000, Deduct	-4.80	
50 89 84 27-0003	TON		CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON).....	44.57	
			For Up To 500, Add	13.07	
			For >500 To 1,000, Add	4.46	
			For >5,000 To 10,000, Deduct	-1.69	
			For >10,000, Deduct	-2.90	
50 89 84 27-0004	CY		CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY).....	63.75	
			For Up To 500, Add	18.74	
			For >500 To 1,000, Add	6.38	
			For >5,000 To 10,000, Deduct	-2.42	
			For >10,000, Deduct	-4.14	
50 89 84 28			CONCRETE BASES (50 89 84)		
			Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.		
50 89 84 28-0001	CY		CALTRANS 280001 CONCRETE BASE.....	269.10	
50 89 84 29			TREATED PERMEABLE BASES (50 89 84)		
			Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.		
50 89 84 29-0001	CY		CALTRANS 290301 CEMENT TREATED PERMEABLE BASE.....	1,004.09	
			For >5,000 To 30,000, Deduct	-106.91	
			For >30,000 To 100,000, Deduct	-195.22	
			For >100,000, Deduct	-242.44	
50 89 84 30			RECLAIMED PAVEMENT (50 89 84)		
			Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.		
50 89 84 30-0001	SF		CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT.....	24.44	
50 89 84 30-0002	SY		CALTRANS 303000 PULVERIZED ROADBED.....	5.45	
50 89 85			CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS (50 89 80)		
50 89 85 37			BITUMINOUS SEALS (50 89 85)		
			Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.		
50 89 85 37-0001	SY		CALTRANS 370001 SAND COVER (SEAL).....	1.53	
50 89 85 37-0002	SY		CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT).....	0.91	
50 89 85 37-0003	LNMI		CALTRANS 374207 CRACK TREATMENT.....	6,813.30	
50 89 85 37-0004	SY		CALTRANS 374491 NON-POLYMER ASPHALTIC EMULSION (SEAL COAT).....	5.05	
50 89 85 37-0005	SY		CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT).....	10.61	
50 89 85 37-0006	TON		CALTRANS 375001 SCREENINGS.....	80.11	
			For Up To 14, Add	21.85	
			For >14 To 35, Add	8.01	
50 89 85 37-0007	SY		CALTRANS 375009 TACK COAT (SEAL).....	1.06	
			For Up To 150, Add	0.23	
			For >150 To 300, Add	0.11	
			For >300 To 500, Add	0.05	
			For >3,500 To 5,000, Deduct	-0.03	
			For >5,000, Deduct	-0.07	
50 89 85 37-0008	SY		CALTRANS 377501 SLURRY SEAL (TYPE I).....	3.21	
			Note: 1/8" thick.		
			For Each 0.5% Of Latex Addition, Add	0.33	
50 89 85 37-0009	SY		CALTRANS 377501 SLURRY SEAL (TYPE II).....	4.24	
			Note: 1/4" thick, 14 to 18 Lb/SY.		
			For Each 0.5% Of Latex Addition, Add	0.49	
50 89 85 37-0010	SY		CALTRANS 377501 SLURRY SEAL (TYPE III).....	5.50	
			Note: 3/8" thick, 25 to 30 Lb/SY.		
			For Each 0.5% Of Latex Addition, Add	0.80	
50 89 85 37-0011	SY		CALTRANS 378000 MICRO-SURFACING.....	11.38	
50 89 85 39			ASPHALT CONCRETE (50 89 85)		
			Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.		
50 89 85 39-0001	TON		CALTRANS 390100 PRIME COAT.....	1,418.33	
50 89 85 39-0002	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (Up To 25).....	182.62	
50 89 85 39-0003	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>25 To 100).....	172.44	
50 89 85 39-0004	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>100-250).....	156.42	
50 89 85 39-0005	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>250).....	148.60	
50 89 85 39-0006	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP TO 25).....	290.50	
50 89 85 39-0007	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100).....	254.25	
50 89 85 39-0008	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250).....	218.28	
50 89 85 39-0009	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250).....	185.29	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0010 TON CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25)	299.10	
50 89 85 39-0011 TON CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	185.14	
Note: Includes placement, rolling, finishing and sweeping.		
50 89 85 39-0012 SY CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....	2.11	
Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Non-woven Polypropylene		
For Up To 50, Add	0.47	
For >50 To 150, Add	0.35	
For >150 To 250, Add	0.23	
For >250 To 500, Add	0.11	
50 89 85 39-0013 LF CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B)	9.97	
50 89 85 39-0014 LF CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A)	7.29	
50 89 85 39-0015 LF CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C)	3.87	
50 89 85 39-0016 LF CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D)	15.95	
50 89 85 39-0017 LF CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E)	10.33	
50 89 85 39-0018 LF CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F)	5.68	
50 89 85 39-0019 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2"	17.41	
For Up To 500, Add	2.73	
For >500 To 1,000, Add	1.56	
For >5,000 To 10,000, Deduct	-0.71	
For >10,000 To 24,000, Deduct	-1.29	
For >24,000 To 48,000, Deduct	-2.00	
For >48,000, Deduct	-2.88	
50 89 85 39-0020 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3"	24.29	
For Up To 300, Add	3.59	
For >300 To 600, Add	2.91	
For >3,000 To 6,000, Deduct	-1.02	
For >6,000 To 16,000, Deduct	-1.86	
For >16,000 To 32,000, Deduct	-2.89	
For >32,000, Deduct	-4.15	
50 89 85 39-0021 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4"	32.99	
For Up To 250, Add	4.54	
For >250 To 500, Add	2.51	
For >2,500 To 5,000, Deduct	-1.44	
For >5,000 To 12,000, Deduct	-2.63	
For >12,000 To 24,000, Deduct	-4.07	
For >24,000, Deduct	-5.84	
50 89 85 39-0022 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6"	49.49	
For Up To 160, Add	6.80	
For >160 To 320, Add	3.76	
For >1,600 To 3,200, Deduct	-2.17	
For >3,200 To 8,000, Deduct	-3.94	
For >8,000 To 16,000, Deduct	-6.10	
For >16,000, Deduct	-8.76	
50 89 85 39-0023 TON CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....	185.14	
50 89 85 39-0024 TON CALTRANS 397005 TACK COAT	857.89	
50 89 85 39-0025 SF CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY).....	206.18	
For >500 To 1,000, Deduct	-20.62	
For >1,000 To 2,500, Deduct	-37.11	
For >2,500 To 5,000, Deduct	-53.61	
For >5,000 To 10,000, Deduct	-70.10	
For >10,000, Deduct	-86.60	
50 89 85 39-0026 SF CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT)	3.50	
For >500 To 1,000, Deduct	-0.35	
For >1,000 To 2,500, Deduct	-0.63	
For >2,500 To 5,000, Deduct	-0.91	
For >5,000 To 10,000, Deduct	-1.19	
For >10,000, Deduct	-1.47	
50 89 85 39-0027 LF CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....	5.71	
50 89 85 39-0028 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3").....	4.88	
For Up To 2,500, Add	3.66	
For >2,500 To 5,000, Add	1.22	
For >10,000 To 25,000, Deduct	-0.49	
For >25,000, Deduct	-0.73	
50 89 85 39-0029 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6").....	6.51	
For Up To 2,500, Add	4.88	
For >2,500 To 5,000, Add	1.63	
For >10,000 To 25,000, Deduct	-0.65	
For >25,000, Deduct	-0.98	

50 89 85 40 CONCRETE PAVEMENT (50 89 85)

Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.

50 89 85 40-0001 CY CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	411.34	
For >1,000 To 5,000, Deduct	-19.09	
For >5,000, Deduct	-49.21	
50 89 85 40-0002 CY CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT	392.17	
For >1,000 To 5,000, Deduct	-19.09	
For >5,000, Deduct	-48.25	

50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)

Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.

50 89 85 41-0001 EA CALTRANS 410096 DRILL AND BOND (DOWEL BAR)	33.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41-0002	SY		CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE).....	438.13	
			For Up To 100, Add	602.44	
			For >100 To 250, Add	301.22	
50 89 85 41-0003	LF		CALTRANS 414220 REPLACE JOINT SEAL (ASPHALT RUBBER).....	9.53	
50 89 85 41-0004	LF		CALTRANS 414221 REPLACE JOINT SEAL (SILICONE).....	9.15	
50 89 85 41-0005	LF		CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....	16.41	
50 89 85 41-0006	LF		CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4").....	19.52	
50 89 85 41-0007	LF		CALTRANS 414224 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1-5/8" TO 2").....	39.26	
50 89 85 41-0008	LF		CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE).....	13.36	
50 89 85 41-0009	LF		CALTRANS 414242 ISOLATION JOINT SEAL (PREFORMED COMPRESSION).....	14.21	
50 89 85 41-0010	SY		CALTRANS 416101 PAVEMENT TRANSITION TAPER.....	64.86	
			For Up To 100, Add	25.47	
			For >100 To 250, Add	14.42	
			For >250 To 500, Add	7.21	
			For >1,000 To 2,000, Deduct	-1.68	
			For >2,000 To 5,000, Deduct	-3.30	
			For >5,000 To 10,000, Deduct	-4.92	
			For >10,000 To 20,000, Deduct	-6.55	
			For >20,000, Deduct	-8.17	
50 89 85 41-0011	CY		CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE.....	51.53	
50 89 85 41-0012	SY		CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD).....	24.99	
			For >500 To 1,000, Deduct	-2.50	
			For >1,000 To 2,500, Deduct	-4.50	
			For >2,500 To 5,000, Deduct	-6.50	
			For >5,000 To 10,000, Deduct	-8.50	
			For >10,000, Deduct	-10.50	
50 89 85 42 GROOVE AND GRIND CONCRETE (50 89 85)					
Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.					
50 89 85 42-0001	SY		CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT.....	1.87	
50 89 85 42-0002	SY		CALTRANS 420104 GROOVE EXISTING BRIDGE DECK.....	2.81	
50 89 85 42-0003	SY		CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT.....	4.88	
			For Up To 2,500, Add	3.66	
			For >2,500 To 5,000, Add	1.22	
			For >10,000 To 25,000, Deduct	-0.49	
			For >25,000, Deduct	-0.73	
50 89 85 42-0004	SY		CALTRANS 420203 GRIND EXISTING BRIDGE DECK.....	30.89	
			For >100 To 1,000, Deduct	-15.45	
			For >1,000, Deduct	-23.17	
50 89 86 CALTRANS DIVISION VI - STRUCTURES (50 89 86)					
50 89 86 47 EARTH RETAINING SYSTEMS (50 89 86)					
50 89 86 47-0001	SF		CALTRANS 475010 RETAINING WALL (MASONRY WALL).....	74.38	9.58
			For >3:1 Sloped Soil At Top, Add	4.69	
50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES (50 89 86)					
50 89 86 56-0001	SF		CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	23.26	25.45
50 89 86 60 EXISTING STRUCTURES (50 89 86)					
50 89 86 60-0001	LF		CALTRANS 600063 CORE CONCRETE (1").....	135.33	
			For Horizontal Cores, Add	26.74	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.48	
50 89 86 60-0002	LF		CALTRANS 600064 CORE CONCRETE (2").....	166.70	
			For Horizontal Cores, Add	33.01	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.03	
50 89 86 60-0003	LF		CALTRANS 600065 CORE CONCRETE (3").....	183.00	
			For Horizontal Cores, Add	36.15	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	72.30	
50 89 86 60-0004	LF		CALTRANS 600066 CORE CONCRETE (4").....	243.92	
			For Horizontal Cores, Add	48.20	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	96.40	
50 89 86 60-0005	LF		CALTRANS 600067 CORE CONCRETE (5").....	280.91	
			For Horizontal Cores, Add	55.46	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	110.93	
50 89 86 60-0006	LF		CALTRANS 600068 CORE CONCRETE (6").....	317.22	
			For Horizontal Cores, Add	62.73	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.45	
50 89 86 60-0007	LF		CALTRANS 600069 CORE CONCRETE (7").....	415.09	
			For Horizontal Cores, Add	82.04	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	164.08	
50 89 86 60-0008	LF		CALTRANS 600070 CORE CONCRETE (8").....	511.65	
			For Horizontal Cores, Add	101.35	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	202.70	
50 89 86 60-0009	LF		CALTRANS 600071 CORE CONCRETE (9").....	59.09	
			For Horizontal Cores, Add	10.51	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.03	
50 89 86 60-0010	LF		CALTRANS 600072 CORE CONCRETE (10").....	551.25	
			For Horizontal Cores, Add	108.95	
			For Overhead Ceiling Cores (Where Not Accessible From Above), Add	217.89	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 86 60-0011 LF CALTRANS 600074 CORE CONCRETE (12").....	635.09	
For Horizontal Cores, Add	125.45	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	250.91	
50 89 86 60-0012 LF CALTRANS 600081 CORE CONCRETE (1 1/2").....	150.19	
For Horizontal Cores, Add	29.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	59.42	
50 89 86 60-0013 LF CALTRANS 600083 CORE CONCRETE (2 1/2").....	175.16	
For Horizontal Cores, Add	34.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.16	
50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES (50 89 80)		
50 89 87 64 PLASTIC PIPE (50 89 87)		
Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 64-0001 LF CALTRANS 641101 12" PLASTIC PIPE	53.27	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0002 LF CALTRANS 641104 15" PLASTIC PIPE	66.78	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0003 LF CALTRANS 641107 18" PLASTIC PIPE	84.37	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0004 LF CALTRANS 641110 21" PLASTIC PIPE	100.29	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0005 LF CALTRANS 641113 24" PLASTIC PIPE	116.85	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0006 LF CALTRANS 641119 30" PLASTIC PIPE	168.27	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0007 LF CALTRANS 641125 36" PLASTIC PIPE	205.10	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0008 LF CALTRANS 641128 42" PLASTIC PIPE	299.93	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 64-0009 LF CALTRANS 641131 48" PLASTIC PIPE	363.73	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65 CONCRETE PIPE (50 89 87)		
Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 65-0001 LF CALTRANS 650010 12" REINFORCED CONCRETE PIPE.....	67.55	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.38	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0002 LF CALTRANS 650012 15" REINFORCED CONCRETE PIPE.....	83.96	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.20	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0003 LF CALTRANS 650014 18" REINFORCED CONCRETE PIPE.....	96.19	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.81	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0004 LF CALTRANS 650016 21" REINFORCED CONCRETE PIPE.....	123.75	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.19	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0005 LF CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	143.08	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.15	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0006	LF		CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	176.87	
			Note: Includes 0.98 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-8.84	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0007	LF		CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	189.12	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-9.46	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0008	LF		CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	211.06	
			Note: Includes 1.19 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-10.55	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0009	LF		CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....	232.81	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-11.64	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0010	LF		CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....	299.67	
			Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-14.98	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0011	LF		CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....	359.20	
			Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-17.96	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0012	LF		CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....	441.48	
			Note: Includes 2.05 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-22.07	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0013	LF		CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....	529.72	
			Note: Includes 2.33 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-26.49	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0014	LF		CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....	785.59	
			Note: Includes 2.64 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-39.28	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0015	LF		CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....	911.79	
			Note: Includes 2.96 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-45.59	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0016	LF		CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....	1,088.20	
			Note: Includes 3.31 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-54.41	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0017	LF		CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....	1,383.91	
			Note: Includes 3.67 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-69.20	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0018	LF		CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....	1,687.16	
			Note: Includes 4.44 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-84.36	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0019	LF		CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....	94.16	
			Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-4.71	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0020	LF		CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....	185.03	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-9.25	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0021	LF		CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....	206.25	
			Note: Includes 1.19 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-10.31	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0022	LF		CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....	227.27	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-11.36	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0023 LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....	67.55	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.38	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0024 LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....	83.96	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.20	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0025 LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....	96.19	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.81	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0026 LF CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	143.08	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.15	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0027 LF CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	176.87	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.84	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0028 LF CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	189.12	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.46	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0029 LF CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	232.81	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.64	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0030 LF CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	299.67	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.98	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0031 LF CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	441.48	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.07	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0032 LF CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	70.42	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.52	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0033 LF CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	87.63	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.38	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0034 LF CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	100.06	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.00	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0035 LF CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	148.76	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.44	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0036 LF CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	196.87	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.84	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0037 LF CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	243.33	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.17	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0038 LF CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	378.07	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.90	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0039 LF CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	466.00	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-23.30	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0040	LF		CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV) 559.86 Note: Includes 2.33 CY of excavated material per LF of pipe. For >1,000, Deduct -27.99 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0041	LF		CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V) 73.59 Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct -3.68 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0042	LF		CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V) 104.33 Note: Includes 0.64 CY of excavated material per LF of pipe. For >1,000, Deduct -5.22 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0043	LF		CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V) 155.04 Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct -7.75 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0044	LF		CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V) 189.12 Note: Includes 1.08 CY of excavated material per LF of pipe. For >1,000, Deduct -9.46 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0045	LF		CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V) 254.95 Note: Includes 1.30 CY of excavated material per LF of pipe. For >1,000, Deduct -12.75 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0046	LF		CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V) 299.67 Note: Includes 1.53 CY of excavated material per LF of pipe. For >1,000, Deduct -14.98 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0047	LF		CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V) 493.09 Note: Includes 2.05 CY of excavated material per LF of pipe. For >1,000, Deduct -24.65 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0048	LF		CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V) 529.72 Note: Includes 2.33 CY of excavated material per LF of pipe. For >1,000, Deduct -26.49 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0049	LF		CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V) 911.79 Note: Includes 2.96 CY of excavated material per LF of pipe. For >1,000, Deduct -45.59 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0050	LF		CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) 68.16 Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct -3.41 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0051	LF		CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) 144.28 Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct -7.21 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0052	LF		CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 69.82 Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct -3.49 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0053	LF		CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 99.24 Note: Includes 0.64 CY of excavated material per LF of pipe. For >1,000, Deduct -4.96 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0054	LF		CALTRANS 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 127.72 Note: Includes 0.80 CY of excavated material per LF of pipe. For >1,000, Deduct -6.39 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0055	LF		CALTRANS 652320 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 147.57 Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct -7.38 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 65-0056	LF		CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) 195.24 Note: Includes 1.08 CY of excavated material per LF of pipe. For >1,000, Deduct -9.76 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0057	LF		CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....241.11 Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-12.06	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0058	LF		CALTRANS 652328 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....311.68 Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-15.58	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0059	LF		CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....374.10 Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-18.71	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0060	LF		CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....960.80 Note: Includes 2.96 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-48.04	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0061	LF		CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....153.67 Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-7.68	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0062	LF		CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....203.57 Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-10.18	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0063	LF		CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....252.41 Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-12.62	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0064	LF		CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....328.02 Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-16.40	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0065	LF		CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....883.03 Note: Includes 2.64 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-44.15	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0066	LF		CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....162.85 Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-8.14	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0067	LF		CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....201.27 Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-10.06	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0068	LF		CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....267.75 Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-13.39	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0069	LF		CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II).....280.76 Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-14.04	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0070	LF		CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III).....482.01 Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-24.10	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0071	LF		CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE.....88.06 Note: Includes 0.64 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-4.40	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0072	LF		CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE.....131.12 Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-6.56	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 65-0073	LF		CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE.....172.79 Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For >1,000, Deduct	-8.64	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	



MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0074	LF	CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE Note: Includes 1.30 CY of excavated material per LF of pipe. For >1,000, Deduct For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	210.67 -10.53 0.97 1.22	
50 89 87 66 CORRUGATED METAL PIPE (50 89 87)				
Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRAN Standard.				
50 89 87 66-0001	LF	CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	30.45 0.97 1.22	
50 89 87 66-0002	LF	CALTRANS 665003 6" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	32.95 0.97 1.22	
50 89 87 66-0003	LF	CALTRANS 665005 8" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	41.04 0.97 1.22	
50 89 87 66-0004	LF	CALTRANS 665006 8" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	44.32 0.97 1.22	
50 89 87 66-0005	LF	CALTRANS 665008 10" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.32 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	50.51 0.97 1.22	
50 89 87 66-0006	LF	CALTRANS 665009 10" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.32 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	53.19 0.97 1.22	
50 89 87 66-0007	LF	CALTRANS 665011 12" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	56.17 0.97 1.22	
50 89 87 66-0008	LF	CALTRANS 665012 12" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	60.45 0.97 1.22	
50 89 87 66-0009	LF	CALTRANS 665013 15" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	70.66 0.97 1.22	
50 89 87 66-0010	LF	CALTRANS 665014 15" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	75.94 0.97 1.22	
50 89 87 66-0011	LF	CALTRANS 665015 15" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	86.82 0.97 1.22	
50 89 87 66-0012	LF	CALTRANS 665016 18" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	82.77 0.97 1.22	
50 89 87 66-0013	LF	CALTRANS 665017 18" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	89.15 0.97 1.22	
50 89 87 66-0014	LF	CALTRANS 665018 18" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	102.34 0.97 1.22	
50 89 87 66-0015	LF	CALTRANS 665019 21" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	98.25 0.97 1.22	
50 89 87 66-0016	LF	CALTRANS 665020 21" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	105.61 0.97 1.22	
50 89 87 66-0017	LF	CALTRANS 665021 21" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	120.95 0.97 1.22	
50 89 87 66-0018	LF	CALTRANS 665022 24" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	108.87 0.97 1.22	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0040 LF CALTRANS 665048 48" CORRUGATED STEEL PIPE (.138" THICK) 336.66 Note: Includes 1.78 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0041 LF CALTRANS 665049 48" CORRUGATED STEEL PIPE (.168" THICK) 374.20 Note: Includes 1.78 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0042 LF CALTRANS 665050 54" CORRUGATED STEEL PIPE (.079" THICK) 330.65 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0043 LF CALTRANS 665051 54" CORRUGATED STEEL PIPE (.109" THICK) 368.14 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0044 LF CALTRANS 665052 54" CORRUGATED STEEL PIPE (.138" THICK) 403.82 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0045 LF CALTRANS 665053 54" CORRUGATED STEEL PIPE (.168" THICK) 448.28 Note: Includes 2.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0046 LF CALTRANS 665055 60" CORRUGATED STEEL PIPE (.109" THICK) 425.65 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0047 LF CALTRANS 665056 60" CORRUGATED STEEL PIPE (.138" THICK) 465.37 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0048 LF CALTRANS 665057 60" CORRUGATED STEEL PIPE (.168" THICK) 514.20 Note: Includes 2.33 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0049 LF CALTRANS 665058 66" CORRUGATED STEEL PIPE (.109" THICK) 510.56 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0050 LF CALTRANS 665059 66" CORRUGATED STEEL PIPE (.138" THICK) 554.22 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0051 LF CALTRANS 665061 72" CORRUGATED STEEL PIPE (.109" THICK) 683.84 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0052 LF CALTRANS 665062 72" CORRUGATED STEEL PIPE (.138" THICK) 745.71 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0053 LF CALTRANS 665064 78" CORRUGATED STEEL PIPE (.138" THICK) 805.95 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0054 LF CALTRANS 665066 84" CORRUGATED STEEL PIPE (.138" THICK) 863.09 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0055 LF CALTRANS 665067 84" CORRUGATED STEEL PIPE (.168" THICK) 956.07 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0056 LF CALTRANS 665068 90" CORRUGATED STEEL PIPE (.138" THICK) 924.84 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0057 LF CALTRANS 665070 96" CORRUGATED STEEL PIPE (.168" THICK) 984.16 Note: Includes 4.44 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0058 LF CALTRANS 665075 18" CORRUGATED STEEL PIPE (.138" THICK) 113.29 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0059 LF CALTRANS 665094 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) 123.59 Note: Includes 0.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0060 LF CALTRANS 665103 6" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) 35.74 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0061 LF CALTRANS 665105 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) 44.69 For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
50 89 87 66-0062	LF CALTRANS 665106 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		47.99		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0063	LF CALTRANS 665108 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		55.11		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0064	LF CALTRANS 665109 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		59.26		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0065	LF CALTRANS 665111 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		61.02		
	Note: Includes 0.37 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0066	LF CALTRANS 665112 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		65.32		
	Note: Includes 0.37 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0067	LF CALTRANS 665113 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		76.70		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0068	LF CALTRANS 665114 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		82.04		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0069	LF CALTRANS 665115 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		95.13		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0070	LF CALTRANS 665116 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		90.09		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0071	LF CALTRANS 665117 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		96.54		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0072	LF CALTRANS 665118 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		110.80		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0073	LF CALTRANS 665119 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		106.99		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0074	LF CALTRANS 665120 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		114.40		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0075	LF CALTRANS 665121 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		130.95		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0076	LF CALTRANS 665122 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		114.21		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0077	LF CALTRANS 665123 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		127.61		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0078	LF CALTRANS 665124 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		146.48		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0079	LF CALTRANS 665125 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....		163.62		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0080	LF CALTRANS 665130 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		158.25		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0081	LF CALTRANS 665131 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		168.71		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0082	LF CALTRANS 665132 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		191.96		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		
50 89 87 66-0083	LF CALTRANS 665133 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....		213.76		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.97		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.22		



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50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0105	LF		CALTRANS 665158 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....548.28 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0106	LF		CALTRANS 665159 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....599.35 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0107	LF		CALTRANS 665160 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....669.71 Note: Includes 2.64 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0108	LF		CALTRANS 665161 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....745.56 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0109	LF		CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....819.81 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0110	LF		CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....905.02 Note: Includes 2.96 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0111	LF		CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....884.09 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0112	LF		CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....976.26 Note: Includes 3.31 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0113	LF		CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....947.62 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0114	LF		CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....1,059.20 Note: Includes 3.67 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0115	LF		CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....1,014.58 Note: Includes 4.05 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0116	LF		CALTRANS 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....188.70 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0117	LF		CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK).....140.70 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0118	LF		CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....155.61 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0119	LF		CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....262.09 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0120	LF		CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....127.61 Note: Includes 0.89 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0121	LF		CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK).....245.65 Note: Includes 1.08 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0122	LF		CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....220.27 Note: Includes 1.30 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0123	LF		CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....61.60 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0124	LF		CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....65.89 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		
50 89 87 66-0125	LF		CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....79.26 Note: Includes 0.37 CY of excavated material per LF of pipe. For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe 0.97 For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe 1.22		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0126 LF CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	110.48	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0127 LF CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	120.32	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0128 LF CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	204.59	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0129 LF CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	119.75	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0130 LF CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	128.48	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0131 LF CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	67.70	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0132 LF CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	73.02	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0133 LF CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	124.48	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0134 LF CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	136.70	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0135 LF CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	174.87	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0136 LF CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....	204.77	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0137 LF CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	142.98	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0138 LF CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....	241.36	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0139 LF CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	79.19	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0140 LF CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	96.78	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0141 LF CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	109.87	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0142 LF CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	114.00	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0143 LF CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	129.43	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0144 LF CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	120.55	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0145 LF CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	145.23	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0146 LF CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	160.53	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0147	LF		CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	168.49	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0148	LF		CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	190.05	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0149	LF		CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	209.31	
			Note: Includes 1.08 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0150	LF		CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	209.09	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0151	LF		CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	234.57	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0152	LF		CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	258.56	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0153	LF		CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	244.62	
			Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0154	LF		CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	274.03	
			Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0155	LF		CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	302.01	
			Note: Includes 1.53 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0156	LF		CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	293.57	
			Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0157	LF		CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	319.69	
			Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0158	LF		CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	351.40	
			Note: Includes 1.78 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0159	LF		CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	342.57	
			Note: Includes 2.05 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0160	LF		CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	371.42	
			Note: Includes 2.05 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0161	LF		CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	432.96	
			Note: Includes 2.33 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0162	LF		CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	469.06	
			Note: Includes 2.33 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0163	LF		CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	712.88	
			Note: Includes 2.64 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0164	LF		CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK)	157.26	
			Note: Includes 0.89 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0165	LF		CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK)	315.46	
			Note: Includes 1.30 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0166	LF		CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	60.45	
			Note: Includes 0.37 CY of excavated material per LF of pipe.		
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0167	LF		CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	82.77	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	
50 89 87 66-0168	LF		CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK)	89.15	
			For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.97	
			For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.22	



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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
50 89 87 66-0169	LF	CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK) <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	102.34 0.97 1.22	
50 89 87 66-0170	LF	CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK)..... <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	44.69 0.97 1.22	
50 89 87 66-0171	LF	CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK)..... <i>Note: Includes 0.89 CY of excavated material per LF of pipe.</i> <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	127.61 0.97 1.22	
50 89 87 67 STRUCTURAL PLATE CULVERTS (50 89 87)				
<i>Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.</i>				
50 89 87 67-0001	LF	CALTRANS 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK) <i>Note: Includes 4.05 CY of excavated material per LF of pipe.</i> <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	970.80 0.97 1.22	
50 89 87 67-0002	LF	CALTRANS 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK) <i>Note: Includes 5.30 CY of excavated material per LF of pipe.</i> <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1,060.65 0.97 1.22	
50 89 87 67-0003	LF	CALTRANS 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK) <i>Note: Includes 6.22 CY of excavated material per LF of pipe.</i> <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1,177.03 0.97 1.22	
50 89 87 67-0004	LF	CALTRANS 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK) <i>Note: Includes 0.32 CY of excavated material per LF of pipe.</i> <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	1,353.08 0.97 1.22	
50 89 87 68 SUBSURFACE DRAINS (50 89 87)				
<i>Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.</i>				
50 89 87 68-0001	LF	CALTRANS 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK) <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	33.70 0.97 1.22	
50 89 87 68-0002	LF	CALTRANS 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK) <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	45.36 0.97 1.22	
50 89 87 68-0003	LF	CALTRANS 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK) <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	49.60 0.97 1.22	
50 89 87 68-0004	LF	CALTRANS 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK) <i>Note: Includes 0.37 CY of excavated material per LF of pipe.</i> <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	64.01 0.97 1.22	
50 89 87 68-0005	LF	CALTRANS 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK) <i>Note: Includes 0.37 CY of excavated material per LF of pipe.</i> <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	69.56 0.97 1.22	
50 89 87 68-0006	LF	CALTRANS 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK) <i>For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe</i> <i>For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe</i>	54.34 0.97 1.22	
50 89 87 69 OVERSIDE DRAINS (50 89 87)				
<i>Note: Includes constructing overside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.</i>				
50 89 87 69-0001	LF	CALTRANS 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	32.37	
50 89 87 69-0002	LF	CALTRANS 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	40.08	
50 89 87 69-0003	LF	CALTRANS 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	43.36	
50 89 87 69-0004	LF	CALTRANS 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN <i>Note: Includes 0.37 CY of excavated material per LF of pipe.</i>	52.09	
50 89 87 69-0005	LF	CALTRANS 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	54.58	
50 89 87 69-0006	LF	CALTRANS 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	58.86	
50 89 87 69-0007	LF	CALTRANS 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	73.77	
50 89 87 69-0008	LF	CALTRANS 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	84.64	
50 89 87 69-0009	LF	CALTRANS 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	80.27	
50 89 87 69-0010	LF	CALTRANS 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	86.64	
50 89 87 69-0011	LF	CALTRANS 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	99.83	
50 89 87 69-0012	LF	CALTRANS 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	104.37	
50 89 87 69-0013	LF	CALTRANS 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	112.93	
50 89 87 69-0014	LF	CALTRANS 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	130.40	
50 89 87 69-0015	LF	CALTRANS 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	145.07	
50 89 87 69-0016	LF	CALTRANS 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	150.62	
50 89 87 69-0017	LF	CALTRANS 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	172.23	
50 89 87 69-0018	LF	CALTRANS 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	190.89	
50 89 87 69-0019	LF	CALTRANS 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	198.30	
50 89 87 69-0020	LF	CALTRANS 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	223.93	
50 89 87 69-0021	LF	CALTRANS 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	247.93	
50 89 87 69-0022	LF	CALTRANS 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	258.65	
50 89 87 69-0023	LF	CALTRANS 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	292.96	
50 89 87 69-0024	LF	CALTRANS 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	324.82	
50 89 87 69-0025	LF	CALTRANS 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	355.27	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 87 69-0026	LF	CALTRANS 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	43.73	
50 89 87 69-0027	LF	CALTRANS 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	47.03	
50 89 87 69-0028	LF	CALTRANS 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	59.43	
50 89 87 69-0029	LF	CALTRANS 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	63.72	
50 89 87 69-0030	LF	CALTRANS 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	87.58	
50 89 87 69-0031	LF	CALTRANS 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	94.03	
50 89 87 69-0032	LF	CALTRANS 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	108.29	
50 89 87 69-0033	LF	CALTRANS 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	114.21	
50 89 87 69-0034	LF	CALTRANS 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	122.87	
50 89 87 69-0035	LF	CALTRANS 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	141.74	
50 89 87 69-0036	LF	CALTRANS 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	158.88	
50 89 87 69-0037	LF	CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	163.39	
50 89 87 69-0038	LF	CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	186.64	
50 89 87 69-0039	LF	CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	201.71	
50 89 87 69-0040	LF	CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	241.76	
50 89 87 69-0041	LF	CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	270.61	
50 89 87 69-0042	LF	CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	279.54	
50 89 87 69-0043	LF	CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	316.56	
50 89 87 69-0044	LF	CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	208.44	
50 89 87 69-0045	LF	CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	82.18	
50 89 87 69-0046	LF	CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	121.23	
50 89 87 69-0047	LF	CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	115.11	
50 89 87 69-0048	LF	CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	150.88	
50 89 87 69-0049	LF	CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	247.88	
50 89 87 69-0050	LF	CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	406.35	
50 89 87 69-0051	LF	CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN.....	51.66	
50 89 87 69-0052	LF	CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN.....	81.87	
50 89 87 69-0053	EA	CALTRANS 692303 8" ANCHOR ASSEMBLY.....	687.85	
50 89 87 69-0054	EA	CALTRANS 692305 12" ANCHOR ASSEMBLY.....	860.41	
50 89 87 69-0055	EA	CALTRANS 692306 15" ANCHOR ASSEMBLY.....	966.82	
50 89 87 69-0056	EA	CALTRANS 692307 18" ANCHOR ASSEMBLY.....	1,080.48	
50 89 87 69-0057	EA	CALTRANS 692309 24" ANCHOR ASSEMBLY.....	1,330.23	
50 89 87 69-0058	EA	CALTRANS 692311 30" ANCHOR ASSEMBLY.....	1,594.70	
50 89 87 69-0059	EA	CALTRANS 692313 36" ANCHOR ASSEMBLY.....	1,859.35	
50 89 87 69-0060	EA	CALTRANS 692319 54" ANCHOR ASSEMBLY.....	2,656.38	

50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)

50 89 87 70-0001	LF	CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK).....	204.26	
50 89 87 70-0002	LF	CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK).....	204.26	
50 89 87 70-0003	LF	CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK).....	229.89	
50 89 87 70-0004	LF	CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK).....	253.89	
50 89 87 70-0005	LF	CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK).....	308.01	
50 89 87 70-0006	LF	CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK).....	304.81	
50 89 87 70-0007	LF	CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK).....	336.66	
50 89 87 70-0008	LF	CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK).....	207.67	
50 89 87 70-0009	LF	CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	218.78	
50 89 87 70-0010	LF	CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK).....	247.72	
50 89 87 70-0011	LF	CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK).....	276.57	
50 89 87 70-0012	LF	CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	328.40	
50 89 87 70-0013	LF	CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK).....	112.11	30.43
For >1,000, Deduct			-5.61	
50 89 87 70-0014	LF	CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK).....	154.80	33.19
For >1,000, Deduct			-7.74	
50 89 87 70-0015	LF	CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK).....	175.22	34.78
For >1,000, Deduct			-8.76	
50 89 87 70-0016	LF	CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK).....	248.79	45.64
For >1,000, Deduct			-12.44	
50 89 87 70-0017	LF	CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK).....	325.16	77.31
For >1,000, Deduct			-16.26	
50 89 87 70-0018	LF	CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK).....	355.76	77.31
For >1,000, Deduct			-17.79	
50 89 87 70-0019	LF	CALTRANS 703575 24" WELDED STEEL PIPE (.250" THICK).....	385.37	89.20
For >1,000, Deduct			-19.27	
50 89 87 70-0020	LF	CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK).....	451.40	89.20
For >1,000, Deduct			-22.57	
50 89 87 70-0021	LF	CALTRANS 703598 30" WELDED STEEL PIPE (.250" THICK).....	448.13	104.07
For >1,000, Deduct			-22.41	
50 89 87 70-0022	LF	CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK).....	524.55	104.07
For >1,000, Deduct			-26.23	
50 89 87 70-0023	LF	CALTRANS 703618 36" WELDED STEEL PIPE (.250" THICK).....	592.11	124.88
For >1,000, Deduct			-29.61	
50 89 87 70-0024	LF	CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK).....	697.56	124.88
For >1,000, Deduct			-34.88	
50 89 87 70-0025	LF	CALTRANS 703644 42" WELDED STEEL PIPE (.250" THICK).....	1,184.40	139.75
For >1,000, Deduct			-59.22	
50 89 87 70-0026	LF	CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK).....	1,184.40	139.75
For >1,000, Deduct			-59.22	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0027	LF		CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK)	1,359.95	157.59
			For >1,000, Deduct	-68.00	
50 89 87 70-0028	LF		CALTRANS 703755 8" COATED WELDED STEEL PIPE (.188" THICK)	126.56	30.43
			For >1,000, Deduct	-6.33	
50 89 87 70-0029	LF		CALTRANS 703757 10" COATED WELDED STEEL PIPE (.250" THICK)	170.90	33.19
			For >1,000, Deduct	-8.55	
50 89 87 70-0030	LF		CALTRANS 703760 12" COATED WELDED STEEL PIPE (.250" THICK)	175.22	34.78
			For >1,000, Deduct	-8.76	
50 89 87 70-0031	LF		CALTRANS 703762 18" COATED WELDED STEEL PIPE (.250" THICK)	276.07	45.64
			For >1,000, Deduct	-13.80	
50 89 87 70-0032	LF		CALTRANS 703763 18" COATED WELDED STEEL PIPE (.375" THICK)	352.43	77.31
			For >1,000, Deduct	-17.62	
50 89 87 70-0033	LF		CALTRANS 703764 20" COATED WELDED STEEL PIPE (.375" THICK)	386.07	77.31
			For >1,000, Deduct	-19.30	
50 89 87 70-0034	LF		CALTRANS 703765 24" COATED WELDED STEEL PIPE (.250" THICK)	405.23	89.20
			For >1,000, Deduct	-20.26	
50 89 87 70-0035	LF		CALTRANS 703767 30" COATED WELDED STEEL PIPE (.250" THICK)	493.58	104.07
			For >1,000, Deduct	-24.68	
50 89 87 70-0036	LF		CALTRANS 703768 30" COATED WELDED STEEL PIPE (.375" THICK)	570.00	104.07
			For >1,000, Deduct	-28.50	
50 89 87 70-0037	LF		CALTRANS 703769 36" COATED WELDED STEEL PIPE (.250" THICK)	646.65	124.88
			For >1,000, Deduct	-32.33	
50 89 87 70-0038	LF		CALTRANS 703769 36" COATED WELDED STEEL PIPE (.375" THICK)	752.11	124.88
			For >1,000, Deduct	-37.61	
50 89 87 70-0039	LF		CALTRANS 703771 42" COATED WELDED STEEL PIPE (.250" THICK)	1,248.03	139.75
			For >1,000, Deduct	-62.40	
50 89 87 70-0040	LF		CALTRANS 703772 42" COATED WELDED STEEL PIPE (.375" THICK)	1,248.03	139.75
			For >1,000, Deduct	-62.40	
50 89 87 70-0041	LF		CALTRANS 703773 48" COATED WELDED STEEL PIPE (.375" THICK)	1,432.67	157.59
			For >1,000, Deduct	-71.63	
50 89 87 70-0042	EA		CALTRANS 705007 12" STEEL FLARED END SECTION	508.85	73.17
50 89 87 70-0043	EA		CALTRANS 705009 15" STEEL FLARED END SECTION	590.35	78.40
50 89 87 70-0044	EA		CALTRANS 705011 18" STEEL FLARED END SECTION	707.99	83.63
50 89 87 70-0045	EA		CALTRANS 705013 21" STEEL FLARED END SECTION	882.85	91.46
50 89 87 70-0046	EA		CALTRANS 705015 24" STEEL FLARED END SECTION	1,159.62	99.31
50 89 87 70-0047	EA		CALTRANS 705016 27" STEEL FLARED END SECTION	1,452.85	99.31
50 89 87 70-0048	EA		CALTRANS 705019 30" STEEL FLARED END SECTION	1,751.29	112.38
50 89 87 70-0049	EA		CALTRANS 705023 36" STEEL FLARED END SECTION	2,990.81	134.73
50 89 87 70-0050	EA		CALTRANS 705027 42" STEEL FLARED END SECTION	3,826.21	157.19
50 89 87 70-0051	EA		CALTRANS 705031 48" STEEL FLARED END SECTION	5,480.43	179.65
50 89 87 70-0052	EA		CALTRANS 705035 54" STEEL FLARED END SECTION	6,069.94	224.55
50 89 87 70-0053	EA		CALTRANS 705037 60" STEEL FLARED END SECTION	8,179.85	269.46
50 89 87 70-0054	EA		CALTRANS 705039 66" STEEL FLARED END SECTION	9,213.18	404.19
50 89 87 70-0055	EA		CALTRANS 705041 72" STEEL FLARED END SECTION	10,736.63	538.93
50 89 87 70-0056	EA		CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION	594.71	73.17
50 89 87 70-0057	EA		CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION	692.84	78.40
50 89 87 70-0058	EA		CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION	831.21	83.63
50 89 87 70-0059	EA		CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION	1,047.64	91.46
50 89 87 70-0060	EA		CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION	1,386.86	99.31
50 89 87 70-0061	EA		CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION	1,747.73	99.31
50 89 87 70-0062	EA		CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION	2,113.82	112.38
50 89 87 70-0063	EA		CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION	3,638.25	134.73
50 89 87 70-0064	EA		CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION	4,660.71	157.19
50 89 87 70-0065	EA		CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION	6,698.11	179.65
50 89 87 70-0066	EA		CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION	7,403.53	224.55
50 89 87 70-0067	EA		CALTRANS 705201 12" CONCRETE FLARED END SECTION	940.01	130.80
50 89 87 70-0068	EA		CALTRANS 705202 15" CONCRETE FLARED END SECTION	1,132.74	163.03
50 89 87 70-0069	EA		CALTRANS 705204 18" CONCRETE FLARED END SECTION	1,374.60	206.37
50 89 87 70-0070	EA		CALTRANS 705205 21" CONCRETE FLARED END SECTION	1,575.30	246.78
50 89 87 70-0071	EA		CALTRANS 705206 24" CONCRETE FLARED END SECTION	1,920.44	285.64
50 89 87 70-0072	EA		CALTRANS 705207 27" CONCRETE FLARED END SECTION	2,312.12	456.18
50 89 87 70-0073	EA		CALTRANS 705208 30" CONCRETE FLARED END SECTION	2,403.32	628.07
50 89 87 70-0074	EA		CALTRANS 705210 36" CONCRETE FLARED END SECTION	3,250.14	792.67
50 89 87 70-0075	EA		CALTRANS 705212 42" CONCRETE FLARED END SECTION	3,905.76	994.55
50 89 87 70-0076	EA		CALTRANS 705214 48" CONCRETE FLARED END SECTION	4,235.29	1,121.65
50 89 87 70-0077	EA		CALTRANS 705216 54" CONCRETE FLARED END SECTION	4,748.36	1,256.27
50 89 87 70-0078	EA		CALTRANS 705217 60" CONCRETE FLARED END SECTION	5,258.88	1,256.27
50 89 87 70-0079	EA		CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION	751.13	83.63
50 89 87 70-0080	EA		CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION	820.54	91.46
50 89 87 70-0081	EA		CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION	884.98	99.31
50 89 87 70-0082	EA		CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION	1,339.33	112.38
50 89 87 70-0083	EA		CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION	2,573.12	134.73
50 89 87 70-0084	EA		CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION	3,453.34	157.19
50 89 87 70-0085	EA		CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION	5,335.22	179.65
50 89 87 70-0086	EA		CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION	6,109.36	224.55
50 89 87 70-0087	EA		CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION	7,379.24	269.46

50 89 87 71**EXISTING DRAINAGE FACILITIES (50 89 87)**

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRANS Standard.

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
50 89 87 71-0001	EA	CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE	459.13	
50 89 87 71-0002	LF	CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF)	56.57	
		For >250 To 500, Deduct	-2.52	
		For >500 To 1,000, Deduct	-5.04	
		For >1,000 To 2,000, Deduct	-7.56	
		For >2,000 To 5,000, Deduct	-10.07	
		For >5,000, Deduct	-12.59	
50 89 87 71-0003	CY	CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL	257.33	
50 89 87 71-0004	CY	CALTRANS 710370 SAND BACKFILL	56.14	
		For Up To 10, Add	15.02	
		For >10 To 25, Add	5.61	
50 89 87 71-0005	LF	CALTRANS 710372 8" CURED-IN-PLACE PIPELINER	93.97	
		For >10 To 25, Add	62.96	
		For >25 To 50, Add	41.60	
		For >50 To 100, Add	20.80	
		For >500 To 1,000, Deduct	-2.84	
		For >1,000 To 2,000, Deduct	-5.25	
		For >2,000 To 5,000, Deduct	-8.09	
		For >5,000, Deduct	-12.91	
50 89 87 71-0006	LF	CALTRANS 710374 10" CURED-IN-PLACE PIPELINER	133.91	
		For >10 To 25, Add	76.43	
		For >25 To 50, Add	51.60	
		For >50 To 100, Add	25.80	
		For >500 To 1,000, Deduct	-3.73	
		For >1,000 To 2,000, Deduct	-6.98	
		For >2,000 To 5,000, Deduct	-10.71	
		For >5,000, Deduct	-17.21	
50 89 87 71-0007	LF	CALTRANS 710376 12" CURED-IN-PLACE PIPELINER	159.67	
		For >10 To 25, Add	87.28	
		For >25 To 50, Add	59.30	
		For >50 To 100, Add	29.65	
		For >500 To 1,000, Deduct	-4.35	
		For >1,000 To 2,000, Deduct	-8.18	
		For >2,000 To 5,000, Deduct	-12.53	
		For >5,000, Deduct	-20.18	
50 89 87 71-0008	LF	CALTRANS 710378 15" CURED-IN-PLACE PIPELINER	254.42	
		For >10 To 25, Add	117.29	
		For >25 To 50, Add	81.90	
		For >50 To 100, Add	40.95	
		For >500 To 1,000, Deduct	-6.40	
		For >1,000 To 2,000, Deduct	-12.20	
		For >2,000 To 5,000, Deduct	-18.61	
		For >5,000, Deduct	-30.21	
50 89 87 71-0009	LF	CALTRANS 710380 18" CURED-IN-PLACE PIPELINER	305.12	
		For >10 To 25, Add	136.90	
		For >25 To 50, Add	96.05	
		For >50 To 100, Add	48.02	
		For >500 To 1,000, Deduct	-7.58	
		For >1,000 To 2,000, Deduct	-14.49	
		For >2,000 To 5,000, Deduct	-22.08	
		For >5,000, Deduct	-35.90	
50 89 87 71-0010	LF	CALTRANS 710382 21" CURED-IN-PLACE PIPELINER	394.66	
		For >10 To 25, Add	164.37	
		For >25 To 50, Add	116.89	
		For >50 To 100, Add	58.45	
		For >500 To 1,000, Deduct	-9.50	
		For >1,000 To 2,000, Deduct	-18.27	
		For >2,000 To 5,000, Deduct	-27.77	
		For >5,000, Deduct	-45.31	
50 89 87 71-0011	LF	CALTRANS 710384 24" CURED-IN-PLACE PIPELINER	496.27	
		For >10 To 25, Add	195.75	
		For >25 To 50, Add	140.67	
		For >50 To 100, Add	70.34	
		For >500 To 1,000, Deduct	-11.68	
		For >1,000 To 2,000, Deduct	-22.56	
		For >2,000 To 5,000, Deduct	-34.24	
		For >5,000, Deduct	-56.00	
50 89 87 71-0012	LF	CALTRANS 710386 27" CURED-IN-PLACE PIPELINER	662.81	
		For >10 To 25, Add	248.75	
		For >25 To 50, Add	180.55	
		For >50 To 100, Add	90.27	
		For >500 To 1,000, Deduct	-15.29	
		For >1,000 To 2,000, Deduct	-29.65	
		For >2,000 To 5,000, Deduct	-44.94	
		For >5,000, Deduct	-73.66	
50 89 87 71-0013	LF	CALTRANS 710388 30" CURED-IN-PLACE PIPELINER	738.29	
		For >10 To 25, Add	276.78	
		For >25 To 50, Add	200.93	
		For >50 To 100, Add	100.47	
		For >500 To 1,000, Deduct	-17.02	
		For >1,000 To 2,000, Deduct	-33.01	
		For >2,000 To 5,000, Deduct	-50.03	
		For >5,000, Deduct	-82.03	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0014	LF		CALTRANS 710390 36" CURED-IN-PLACE PIPELINER	886.18	
			For >10 To 25, Add	325.11	
			For >25 To 50, Add	237.08	
			For >50 To 100, Add	118.54	
			For >500 To 1,000, Deduct	-20.26	
			For >1,000 To 2,000, Deduct	-39.36	
			For >2,000 To 5,000, Deduct	-59.62	
			For >5,000, Deduct	-97.82	
50 89 87 71-0015	LF		CALTRANS 710392 42" CURED-IN-PLACE PIPELINER	1,035.62	
			For >10 To 25, Add	377.32	
			For >25 To 50, Add	275.54	
			For >50 To 100, Add	137.77	
			For >500 To 1,000, Deduct	-23.61	
			For >1,000 To 2,000, Deduct	-45.90	
			For >2,000 To 5,000, Deduct	-69.51	
			For >5,000, Deduct	-114.09	
50 89 87 71-0016	LF		CALTRANS 710394 48" CURED-IN-PLACE PIPELINER	1,187.29	
			For >10 To 25, Add	435.13	
			For >25 To 50, Add	317.37	
			For >50 To 100, Add	158.68	
			For >500 To 1,000, Deduct	-27.13	
			For >1,000 To 2,000, Deduct	-52.72	
			For >2,000 To 5,000, Deduct	-79.84	
			For >5,000, Deduct	-131.02	
50 89 87 71-0017	LF		CALTRANS 710396 54" CURED-IN-PLACE PIPELINER	1,554.15	
			For >10 To 25, Add	562.53	
			For >25 To 50, Add	411.36	
			For >50 To 100, Add	205.68	
			For >500 To 1,000, Deduct	-35.34	
			For >1,000 To 2,000, Deduct	-68.74	
			For >2,000 To 5,000, Deduct	-104.08	
			For >5,000, Deduct	-170.88	
50 89 87 71-0018	LF		CALTRANS 710398 60" CURED-IN-PLACE PIPELINER	1,980.03	
			For >10 To 25, Add	732.47	
			For >25 To 50, Add	533.21	
			For >50 To 100, Add	266.60	
			For >500 To 1,000, Deduct	-45.41	
			For >1,000 To 2,000, Deduct	-88.17	
			For >2,000 To 5,000, Deduct	-133.58	
			For >5,000, Deduct	-219.11	
50 89 87 71-0019	LF		CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER	186.83	
			For >500 To 1,000, Deduct	-1.62	
			For >1,000 To 2,000, Deduct	-3.24	
			For >2,000, Deduct	-6.48	
50 89 87 71-0020	LF		CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER	211.08	
			For >500 To 1,000, Deduct	-1.75	
			For >1,000 To 2,000, Deduct	-3.51	
			For >2,000, Deduct	-7.02	
50 89 87 71-0021	LF		CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER	256.78	
			For >500 To 1,000, Deduct	-1.91	
			For >1,000 To 2,000, Deduct	-3.83	
			For >2,000, Deduct	-7.66	
50 89 87 71-0022	LF		CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	32.40	
50 89 87 71-0023	LF		CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	48.66	
50 89 87 71-0024	LF		CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	65.56	
50 89 87 71-0025	LF		CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	81.35	
50 89 87 71-0026	LF		CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	106.63	
50 89 87 71-0027	LF		CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	127.98	
50 89 87 71-0028	LF		CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	146.52	
50 89 87 71-0029	LF		CALTRANS 710448 12" CEMENTITIOUS PIPELINER	78.76	
50 89 87 71-0030	LF		CALTRANS 710450 15" CEMENTITIOUS PIPELINER	88.71	
50 89 87 71-0031	LF		CALTRANS 710452 18" CEMENTITIOUS PIPELINER	94.66	
50 89 87 71-0032	LF		CALTRANS 710454 21" CEMENTITIOUS PIPELINER	101.65	
50 89 87 71-0033	LF		CALTRANS 710456 24" CEMENTITIOUS PIPELINER	108.46	
50 89 87 71-0034	LF		CALTRANS 710458 27" CEMENTITIOUS PIPELINER	113.99	
50 89 87 71-0035	LF		CALTRANS 710460 30" CEMENTITIOUS PIPELINER	119.32	
50 89 87 71-0036	LF		CALTRANS 710462 36" CEMENTITIOUS PIPELINER	114.12	
50 89 87 71-0037	LF		CALTRANS 710478 36" WELDED STEEL PIPELINER	743.67	
50 89 87 71-0038	LF		CALTRANS 710480 42" WELDED STEEL PIPELINER	858.20	
50 89 87 71-0039	LF		CALTRANS 710482 48" WELDED STEEL PIPELINER	975.87	
50 89 87 71-0040	LF		CALTRANS 710484 54" WELDED STEEL PIPELINER	1,190.34	
50 89 87 71-0041	LF		CALTRANS 710486 60" WELDED STEEL PIPELINER	1,288.07	
50 89 87 71-0042	LF		CALTRANS 710488 66" WELDED STEEL PIPELINER	1,407.13	
50 89 87 71-0043	LF		CALTRANS 710490 72" WELDED STEEL PIPELINER	1,679.50	
50 89 87 71-0044	LF		CALTRANS 710491 78" WELDED STEEL PIPELINER	1,772.51	
50 89 87 71-0045	LF		CALTRANS 710492 84" WELDED STEEL PIPELINER	1,876.83	
50 89 87 71-0046	LF		CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29")	475.35	
50 89 87 71-0047	LF		CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33")	594.49	
50 89 87 71-0048	LF		CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38")	741.12	
50 89 87 71-0049	LF		CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43")	894.23	
50 89 87 71-0050	LF		CALTRANS 710512 42" X 29" WELDED STEEL PIPELINER (ARCH)	825.05	
50 89 87 71-0051	LF		CALTRANS 710514 49" X 33" WELDED STEEL PIPELINER (ARCH)	951.47	
50 89 87 71-0052	LF		CALTRANS 710516 57" X 38" WELDED STEEL PIPELINER (ARCH)	1,081.59	
50 89 87 71-0053	LF		CALTRANS 710518 64" X 43" WELDED STEEL PIPELINER (ARCH)	1,325.71	
50 89 87 71-0054	LF		CALTRANS 710520 71" X 47" WELDED STEEL PIPELINER (ARCH)	1,432.34	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 87 71-0055	LF	CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH)	1,879.37
50 89 87 71-0056	LF	CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5)	97.17
50 89 87 71-0057	LF	CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5)	122.19
50 89 87 71-0058	LF	CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5)	150.73
50 89 87 71-0059	LF	CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5)	174.19
50 89 87 71-0060	LF	CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5)	199.74
50 89 87 71-0061	LF	CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5)	228.54
50 89 87 71-0062	LF	CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5)	258.37
50 89 87 71-0063	LF	CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5)	300.50
50 89 87 71-0064	LF	CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5)	344.74
50 89 87 71-0065	LF	CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5)	381.70
50 89 87 71-0066	LF	CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5)	418.64
50 89 87 71-0067	LF	CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5)	480.31
50 89 87 71-0068	LF	CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5)	541.97
50 89 87 71-0069	LF	CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5)	702.95
50 89 87 71-0070	LF	CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5)	861.83
50 89 87 71-0071	LF	CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5)	910.31
50 89 87 71-0072	LF	CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5)	1,145.66
50 89 87 71-0073	LF	CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26)	117.37
50 89 87 71-0074	LF	CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26)	147.61
50 89 87 71-0075	LF	CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26)	182.44
50 89 87 71-0076	LF	CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26)	210.96
50 89 87 71-0077	LF	CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26)	242.10
50 89 87 71-0078	LF	CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26)	277.25
50 89 87 71-0079	LF	CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26)	313.68
50 89 87 71-0080	LF	CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26)	365.36
50 89 87 71-0081	LF	CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26)	419.66
50 89 87 71-0082	LF	CALTRANS 710676 HDPE PLASTIC PIPELINER (34" OD SDR 26)	464.93
50 89 87 71-0083	LF	CALTRANS 710678 HDPE PLASTIC PIPELINER (36" OD SDR 26)	510.18
50 89 87 71-0084	LF	CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26)	586.09
50 89 87 71-0085	LF	CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26)	661.99
50 89 87 71-0086	LF	CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26)	861.05
50 89 87 71-0087	LF	CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26)	1,057.50
50 89 87 71-0088	LF	CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26)	1,117.05
50 89 87 71-0089	LF	CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26)	1,407.77
50 89 87 71-0090	LF	CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21)	143.45
50 89 87 71-0091	LF	CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21)	180.44
50 89 87 71-0092	LF	CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21)	223.40
50 89 87 71-0093	LF	CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21)	258.47
50 89 87 71-0094	LF	CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21)	296.80
50 89 87 71-0095	LF	CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21)	340.16
50 89 87 71-0096	LF	CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21)	385.12
50 89 87 71-0097	LF	CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21)	449.14
50 89 87 71-0098	LF	CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21)	516.43
50 89 87 71-0099	LF	CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21)	572.43
50 89 87 71-0100	LF	CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21)	628.42
50 89 87 71-0101	LF	CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21)	722.72
50 89 87 71-0102	LF	CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21)	817.02
50 89 87 71-0103	LF	CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21)	1,065.26
50 89 87 71-0104	LF	CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21)	1,310.25
50 89 87 71-0105	LF	CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21)	1,384.10
50 89 87 71-0106	LF	CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21)	1,746.33

50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)**50 89 88 73 CONCRETE CURBS AND SIDEWALKS (50 89 88)**

50 89 88 73-0001	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18"	30.57
		For Up To 20, Add	18.43
		For >20 To 50, Add	10.45
		For >50 To 100, Add	3.99
		For >500 To 1,000, Deduct	-3.99
		For >1,000, Deduct	-6.75
50 89 88 73-0002	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24"	35.15
		For Up To 20, Add	20.58
		For >20 To 50, Add	11.65
		For >50 To 100, Add	4.47
		For >500 To 1,000, Deduct	-4.47
		For >1,000, Deduct	-7.58
50 89 88 73-0003	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18"	32.26
		For Up To 20, Add	18.86
		For >20 To 50, Add	10.67
		For >50 To 100, Add	4.09
		For >500 To 1,000, Deduct	-4.09
		For >1,000, Deduct	-6.95
50 89 88 73-0004	LF	CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24"	37.40
		For Up To 20, Add	21.03
		For >20 To 50, Add	11.87
		For >50 To 100, Add	4.58
		For >500 To 1,000, Deduct	-4.58
		For >1,000, Deduct	-7.81



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0005 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36"	52.03	
For Up To 20, Add	28.70	
For >20 To 50, Add	16.18	
For >50 To 100, Add	6.26	
For >500 To 1,000, Deduct	-6.26	
For >1,000, Deduct	-10.69	
50 89 88 73-0006 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24"	45.29	
For Up To 20, Add	24.30	
For >20 To 50, Add	13.67	
For >50 To 100, Add	5.31	
For >500 To 1,000, Deduct	-5.31	
For >1,000, Deduct	-9.10	
50 89 88 73-0007 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36"	63.77	
For Up To 20, Add	33.53	
For >20 To 50, Add	18.85	
For >50 To 100, Add	7.34	
For >500 To 1,000, Deduct	-7.34	
For >1,000, Deduct	-12.61	
50 89 88 73-0008 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18"	40.73	
For Up To 20, Add	27.69	
For >20 To 50, Add	15.47	
For >50 To 100, Add	6.11	
For >500 To 1,000, Deduct	-5.28	
For >1,000, Deduct	-8.94	
50 89 88 73-0009 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24"	49.32	
For Up To 20, Add	33.51	
For >20 To 50, Add	18.72	
For >50 To 100, Add	7.40	
For >500 To 1,000, Deduct	-6.39	
For >1,000, Deduct	-10.81	
50 89 88 73-0010 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30"	64.33	
For Up To 20, Add	43.74	
For >20 To 50, Add	24.45	
For >50 To 100, Add	9.65	
For >500 To 1,000, Deduct	-8.36	
For >1,000, Deduct	-14.15	
50 89 88 73-0011 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36"	67.75	
For Up To 20, Add	46.04	
For >20 To 50, Add	25.72	
For >50 To 100, Add	10.16	
For >500 To 1,000, Deduct	-8.78	
For >1,000, Deduct	-14.86	
50 89 88 73-0012 SF CALTRANS 730070 DETECTABLE WARNING SURFACE	57.26	
50 89 88 73-0013 CY CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	219.30	
For Up To 20, Add	14.70	
For >20 To 50, Add	5.51	
For >100 To 200, Deduct	-4.39	
For >200 To 400, Deduct	-8.77	
For >400, Deduct	-13.16	
50 89 88 73-0014 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4"	10.55	
For Up To 100, Add	4.57	
For >100 To 500, Add	1.30	
For >1,000 To 5,000, Deduct	-0.77	
For >5,000, Deduct	-1.69	
50 89 88 73-0015 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6"	12.37	
For Up To 100, Add	5.17	
For >100 To 500, Add	1.45	
For >1,000 To 5,000, Deduct	-0.83	
For >5,000, Deduct	-1.87	
50 89 88 73-0016 LF CALTRANS 731700 REMOVE CURB	12.68	
50 89 88 73-0017 LF CALTRANS 731710 REMOVE CONCRETE CURB (LF)	20.32	
For Up To 20, Add	14.22	
For >20 To 50, Add	8.13	
For >50 To 100, Add	3.05	
For >500 To 1,000, Deduct	-3.05	
For >1,000, Deduct	-5.08	
50 89 88 73-0018 SY CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD)	111.45	
For Up To 100, Add	46.58	
For >100 To 500, Add	13.06	
For >1,000 To 5,000, Deduct	-7.49	
For >5,000, Deduct	-16.80	
50 89 88 73-0019 LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER)	33.97	
For Up To 20, Add	23.78	
For >20 To 50, Add	13.59	
For >50 To 100, Add	5.10	
For >500 To 1,000, Deduct	-5.10	
For >1,000, Deduct	-8.49	

50 89 88 78 **INCIDENTAL CONSTRUCTION** (50 89 88)

50 89 88 78-0001	EA	CALTRANS 780210 SURVEY MONUMENT (TYPE A)	633.13
50 89 88 78-0002	EA	CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE	247.35
50 89 88 78-0003	SF	CALTRANS 780433 PAINT CURB (2-COAT)	6.12

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 78-0004 SF CALTRANS 780460 ANTI-GRAFFITI COATING.....	1.92	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
50 89 88 78-0005 EA CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE).....	108.17	23.19
50 89 88 80 FENCES (50 89 88)		
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRANS Standard.		
50 89 88 80-0001 LF CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST).....	13.59	
50 89 88 80-0002 LF CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST).....	14.42	
50 89 88 80-0003 LF CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST).....	16.51	
50 89 88 80-0004 LF CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST).....	15.31	
50 89 88 80-0005 LF CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST).....	12.76	
50 89 88 80-0006 LF CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST).....	17.34	
50 89 88 80-0007 LF CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6)).....	8.22	
50 89 88 80-0008 LF CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD).....	47.50	
For Up To 100, Add	8.95	
For >100 To 250, Add	3.29	
For >2,500 To 5,000, Deduct	-1.64	
For >5,000, Deduct	-3.29	
50 89 88 80-0009 LF CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5).....	46.03	
For Up To 100, Add	8.70	
For >100 To 250, Add	3.20	
For >2,500 To 5,000, Deduct	-1.60	
For >5,000, Deduct	-3.20	
50 89 88 80-0010 LF CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4).....	47.57	
For Up To 100, Add	8.96	
For >100 To 250, Add	3.29	
For >2,500 To 5,000, Deduct	-1.64	
For >5,000, Deduct	-3.29	
50 89 88 80-0011 LF CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD).....	49.21	
For Up To 100, Add	9.20	
For >100 To 250, Add	3.37	
For >2,500 To 5,000, Deduct	-1.69	
For >5,000, Deduct	-3.37	
50 89 88 80-0012 LF CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5).....	51.13	
For Up To 100, Add	9.55	
For >100 To 250, Add	3.50	
For >2,500 To 5,000, Deduct	-1.75	
For >5,000, Deduct	-3.50	
50 89 88 80-0013 LF CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD).....	53.20	
For Up To 100, Add	9.86	
For >100 To 250, Add	3.60	
For >2,500 To 5,000, Deduct	-1.80	
For >5,000, Deduct	-3.60	
50 89 88 80-0014 LF CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6).....	55.36	
For Up To 100, Add	10.30	
For >100 To 250, Add	3.77	
For >2,500 To 5,000, Deduct	-1.88	
For >5,000, Deduct	-3.77	
50 89 88 80-0015 LF CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD).....	59.57	
For Up To 100, Add	10.94	
For >100 To 250, Add	3.98	
For >2,500 To 5,000, Deduct	-1.99	
For >5,000, Deduct	-3.98	
50 89 88 80-0016 LF CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM).....	57.24	
For Up To 100, Add	10.59	
For >100 To 250, Add	3.86	
For >2,500 To 5,000, Deduct	-1.93	
For >5,000, Deduct	-3.86	
50 89 88 80-0017 LF CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED).....	118.59	
For Up To 100, Add	20.29	
For >100 To 250, Add	7.18	
For >2,500 To 5,000, Deduct	-3.59	
For >5,000, Deduct	-7.18	
50 89 88 80-0018 LF CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8).....	65.18	
For Up To 100, Add	11.99	
For >100 To 250, Add	4.36	
For >2,500 To 5,000, Deduct	-2.18	
For >5,000, Deduct	-4.36	
50 89 88 80-0019 EA CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4).....	498.36	
50 89 88 80-0020 EA CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4).....	590.74	
50 89 88 80-0021 EA CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4).....	694.53	
50 89 88 80-0022 EA CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4).....	1,691.85	
50 89 88 80-0023 EA CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5).....	1,055.05	
50 89 88 80-0024 EA CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5).....	2,398.48	
50 89 88 80-0025 EA CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5).....	2,768.10	
50 89 88 80-0026 EA CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5).....	3,094.62	
50 89 88 80-0027 EA CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6).....	506.91	
50 89 88 80-0028 EA CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6).....	645.38	
50 89 88 80-0029 EA CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD).....	283.53	
50 89 88 80-0030 EA CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	664.45	
50 89 88 80-0031 EA CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED).....	684.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0032	EA		CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6).....	756.78	
50 89 88 80-0033	EA		CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6).....	878.30	
50 89 88 80-0034	EA		CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6).....	1,126.95	
50 89 88 80-0035	EA		CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM)	1,147.73	
50 89 88 80-0036	EA		CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6).....	1,249.24	
50 89 88 80-0037	EA		CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6).....	1,859.40	
50 89 88 80-0038	EA		CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6).....	2,207.69	
50 89 88 80-0039	EA		CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6).....	2,620.72	
50 89 88 80-0040	EA		CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6).....	2,974.76	
50 89 88 80-0041	EA		CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6).....	3,338.57	
50 89 88 80-0042	EA		CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6).....	3,706.97	
50 89 88 80-0043	EA		CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6).....	4,454.51	
50 89 88 80-0044	EA		CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7).....	3,522.33	
50 89 88 80-0045	LF		CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM)	67.05	
			For Up To 100, Add	12.27	
			For >100 To 250, Add	4.46	
			For >2,500 To 5,000, Deduct	-2.23	
			For >5,000, Deduct	-4.46	
50 89 88 80-0046	EA		CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8).....	797.93	
50 89 88 80-0047	EA		CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	817.00	
50 89 88 80-0048	EA		CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8).....	1,069.42	
50 89 88 80-0049	EA		CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM)	1,387.65	
50 89 88 80-0050	EA		CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD)	1,572.72	
50 89 88 80-0051	LF		CALTRANS 803050 REMOVE CHAIN LINK FENCE	6.75	
			For Up To 100, Add	1.69	
			For >100 To 250, Add	0.68	
			For >2,500 To 5,000, Deduct	-0.34	
			For >5,000, Deduct	-0.68	
50 89 88 80-0052	EA		CALTRANS 803060 REMOVE GATE	303.50	
50 89 88 80-0053	EA		CALTRANS 803160 RESET GATE	1,480.68	
50 89 88 80-0054	LF		CALTRANS 803180 RELOCATE CHAIN LINK FENCE	31.12	
50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)					
50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)					
50 89 89 81-0001	EA		CALTRANS 810120 REMOVE PAVEMENT MARKER	2.82	
			For >100, Deduct	-0.28	
50 89 89 81-0002	EA		CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE)	7.61	2.82
			For >100, Deduct	-0.76	
			For >100, Deduct	-0.76	
50 89 89 81-0003	EA		CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE)	8.81	2.82
			For >100, Deduct	-0.88	
			For >100, Deduct	-0.88	
50 89 89 81-0004	EA		CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED)	82.00	34.36
50 89 89 82 SIGNS AND MARKERS (50 89 89)					
50 89 89 82-0001	EA		CALTRANS 820110 MILEPOST MARKER	207.99	
50 89 89 82-0002	SF		CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	25.90	39.33
50 89 89 82-0003	SF		CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	26.64	25.45
50 89 89 83 RAILINGS AND BARRIERS (50 89 89)					
50 89 89 83-0001	LF		CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST)	62.06	11.13
50 89 89 83-0002	LF		CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST)	124.35	16.38
50 89 89 83-0003	LF		CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST)	147.02	3.06
50 89 89 83-0004	LF		CALTRANS 839752 REMOVE GUARDRAIL	11.13	
50 89 89 84 MARKINGS (50 89 89)					
50 89 89 84-0001	LF		CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE	2.14	
			For Up To 5,000 LF, Add	0.43	
			For >25,000 LF, Deduct	-0.32	
50 89 89 84-0002	LF		CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE	2.84	
			For Up To 5,000 LF, Add	0.57	
			For >25,000 LF, Deduct	-0.43	
50 89 89 84-0003	LF		CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4)	1.28	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.19	
50 89 89 84-0004	LF		CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	1.11	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.17	
50 89 89 84-0005	SF		CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING	10.17	
50 89 89 84-0006	SF		CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	10.17	
50 89 89 84-0007	LF		CALTRANS 840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1)	0.73	
			For Up To 5,000 LF, Add	0.15	
			For >25,000 LF, Deduct	-0.11	
50 89 89 84-0008	LF		CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)	0.84	
			For Up To 5,000 LF, Add	0.17	
			For >25,000 LF, Deduct	-0.13	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0009	LF		CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	0.99	
			For Up To 5,000 LF, Add	0.20	
			For >25,000 LF, Deduct	-0.15	
50 89 89 84-0010	LF		CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7).....	1.13	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
50 89 89 84-0011	LF		CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12).....	1.57	
			For Up To 5,000 LF, Add	0.31	
			For >25,000 LF, Deduct	-0.24	
50 89 89 84-0012	LF		CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12).....	1.30	
			For Up To 5,000 LF, Add	0.26	
			For >25,000 LF, Deduct	-0.20	
50 89 89 84-0013	LF		CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.80	
			For Up To 5,000 LF, Add	0.16	
			For >25,000 LF, Deduct	-0.12	
50 89 89 84-0014	LF		CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE	0.97	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.15	
50 89 89 84-0015	LF		CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE BROKEN 12-3).....	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
50 89 89 84-0016	LF		CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1).....	0.50	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
50 89 89 84-0017	LF		CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3).....	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
50 89 89 84-0018	LF		CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.43	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.06	
50 89 89 84-0019	LF		CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7).....	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
50 89 89 84-0020	LF		CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12).....	0.63	
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.09	
50 89 89 84-0021	LF		CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4).....	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
50 89 89 84-0022	LF		CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.68	
			For Up To 5,000 LF, Add	0.14	
			For >25,000 LF, Deduct	-0.10	
50 89 89 84-0023	SF		CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING	8.56	
50 89 89 84-0024	SF		CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS.....	7.05	
50 89 89 84-0025	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide	0.35	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
50 89 89 84-0026	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide	0.44	
			For Up To 5,000 LF, Add	0.09	
			For >25,000 LF, Deduct	-0.07	
50 89 89 84-0027	LF		CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide	0.55	
			For Up To 5,000 LF, Add	0.11	
			For >25,000 LF, Deduct	-0.08	
50 89 89 84-0028	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide	0.67	
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.10	
50 89 89 84-0029	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide	0.86	
			For Up To 5,000 LF, Add	0.17	
			For >25,000 LF, Deduct	-0.13	
50 89 89 84-0030	LF		CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide	1.10	
			For Up To 5,000 LF, Add	0.22	
			For >25,000 LF, Deduct	-0.17	
50 89 89 84-0031	SF		CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT)	6.96	
50 89 89 84-0032	SF		CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT)	10.58	
50 89 89 84-0033	LF		CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE.....	2.30	
			For Up To 250, Add	1.15	
			For >250 To 1,000, Add	0.58	
			For >5,000 To 10,000, Deduct	-0.35	
			For >10,000 To 25,000, Deduct	-0.58	
			For >25,000 To 50,000, Deduct	-0.81	
			For >50,000, Deduct	-0.92	
50 89 89 84-0034	SF		CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING	3.96	
			For Up To 250, Add	1.98	
			For >250 To 1,000, Add	0.99	
			For >5,000 To 10,000, Deduct	-0.59	
			For >10,000 To 25,000, Deduct	-0.99	
			For >25,000 To 50,000, Deduct	-1.39	
			For >50,000, Deduct	-1.58	
50 89 89 84-0035	LF		CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE	3.49	
			For Up To 250, Add	1.75	
			For >250 To 1,000, Add	0.87	
			For >5,000 To 10,000, Deduct	-0.52	
			For >10,000 To 25,000, Deduct	-0.87	
			For >25,000 To 50,000, Deduct	-1.22	
			For >50,000, Deduct	-1.40	



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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
50 89 89 84-0036	SF CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING	5.05	
	For Up To 250, Add	2.53	
	For >250 To 1,000, Add	1.26	
	For >5,000 To 10,000, Deduct	-0.76	
	For >10,000 To 25,000, Deduct	-1.26	
	For >25,000 To 50,000, Deduct	-1.77	
	For >50,000, Deduct	-2.02	

END OF SECTION 50

50	50	Custom Standards And Assemblies
	50 89	CALTRANS Custom Standards And Assemblies
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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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30 Patewood Drive
Building 2, Suite 350
Greenville, South Carolina 29615